

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

() MIT



CD

SGTE

Word 98

CD

Word 2000

CD

CD

BaO4 ,BaSO4

Al2Ca3O6 ,Al2O3CaO

CD

Go To

Word

$$C_p \quad [\quad] \quad T$$

$$S = S^0_T \quad [\quad] \quad T$$

$$H - H_{ser} = H^0_T - H^0_{298.15} \quad [\quad] \quad T$$

$$G - H_{ser} = G^0_T - H^0_{298.15} \quad [\quad] \quad T \quad (\quad)$$

$$\text{Beta} = G - H_{ser} / (R.T.\ln 10) \quad [\quad] \quad T \quad (\text{Beta})$$

:

Cp [J/(mol . K)] , S [J/(mol . K)] , H-Hser [J/mol] , G-Hser [J/mol] , Beta =-G/R.T.ln10 [---]

CD

<ALBITE_L>.....	149	Al2CaO8Si2	Ac.....	10
Al2NiO4.....	150	<ANORTHITE>.....	Ag... .	11
Al2O<g>	153	Al2CdO4	Ag2<g>... .	12
Al2O2<g>	154	Al2Cl9K3	Ag2CO3... .	16
Al2O3	155	Al2CO	Ag2CrO4.....	19
Al2O3		Al2CoO4	Ag2O..... .	27
<AL2O3_DELTA>.....	156	Al2CuO4	Ag2O4S... .	28
Al2O3		Al2F6<g>	Ag2O4W.....	29
<AL2O3_GAMMA>... .	157	Al2FeO4	Ag2S<g> .	33
Al2O3		Al2H2O4	Ag2Se	35
<AL2O3_KAPPA>.....	158	<BOEHMITE>.....	Ag2Se<g>	36
Al2O4Sr	164	Al2H2O4	Ag2Te	38
Al2O4Zn..... .	168	<DIASPORE>.....	Ag2Te<g>.....	39
Al2O5Si		Al2H4O9Si2	AgBr<g>	13
<ANDALUSITE>.....	159	<DICKITE>..... .	AgBrO3	14
Al2O5Si		Al2H4O9Si2	AgCl<g>	17
<KYANITE>.....	160	<HALLOYSITE>.....	AgClO3	18
Al2O5Si		Al2H4O9Si2	AgCN	15
<SILLIMANITE>... .	161	<KAOLINITE> .	AgD<g>	20
Al2O5Ti	167	Al2H6O6	AgF	21
Al2O6Sr3	165	<BAYERITE>.....	AgF<g>..... .	22
Al2O7Si2	162	Al2H6O6	AgH<g>	23
Al2O7Sr4	166	<GIBBSITE>.....	AgI<g>	24
Al2S<g>	173	Al2I6<g>	AgNO3	25
Al2S2<g>	174	Al2K2O12Si4	AgO<g>	26
Al2S3	175	<LEUCITE>.....	AgP2	30
Al2Se<g>	177	Al2K2O16Si6	AgP3	31
Al2Se2<g>	178	<ADULARIA>.....	AgS<g>	32
Al2Se3... .	179	Al2K2O16Si6	AgSe<g>	34
Al2Te<g>... .	181	<MICROCLINE>.....	AgTe<g>	37
Al3F14Na5	101	Al2K2O16Si6	Al	40
Al4B2O9... .	47	<SANIDINE>.....	Al12CaO19. .	68
Al4C3.....	59	Al2K2O8Si2	Al14Ca12O33	69
Al4CaO7..... .	67	<KALIOPHILITE>... .	Al18B4O33	48
Al4CO4	61	Al2Li2O12Si4	Al18Mg7O40Si3	
Al4Mg2O18Si5		<SPODUM_A>.....	<SAPPHIRINE>.....	141
<CORDIERITE>.....	140	Al2Li2O12Si4	Al2<g>.....	41
Al6O13Si2		<SPODUM_B>.....	Al2Ba3O6	50
<MULLITE>.....	163	Al2Li2O4	Al2BaO4	49
AlAs<g>	42	Al2Li2O8Si2	Al2BeO4	51
AlAsO4	43	<EUCRYPTITE>.....	Al2Br6<g>... .	55
AlB12	45	Al2Mg3O12Si3	Al2C2<g>	58
AlB2	44	<PYROPE>.....	Al2Ca2O7Si	
AlBO2<g>	46	Al2MgO4..... .	<GEHLENITE>.....	71
AlBr<g>	52	Al2MnO4	Al2Ca3H12O12.....	62
AlBr2<g>	53	Al2Na2O12Si4	Al2Ca3O12Si3	
AlBr3<g>	54	<JADEITE>.....	<GROSSULAR>.....	72
AlC<g>	56	Al2Na2O16Si6	Al2Ca3O6..... .	66
AlC2<g>	57	<ALBITE_H>.....	Al2Ca4H26O20.....	63
AlCeO3	74	Al2Na2O16Si6	Al2CaH4O10Si2	64
			Al2CaO4.....	65

AsH<g>	209	Ar<g>	186	AlCl<g>.....	75
AsH2<g>	210	As.....	187	AlCl2<g>	76
AsH3<g>	211	As2Ba308...	189	AlCl20<g>	83
AsI<g>	213	As2Be308	190	AlCl3<g>	77
AsI2<g>	214	As2Ca308	193	AlCl4Na	80
AsI3<g>.....	215	As2Cd308	194	AlCl6K3	78
AsIn	218	As2Co308	196	AlCl6Na3	81
AsInO4.....	219	As2Cu308	198	AlClO<g>	82
AsK3O4.....	220	As2Fe308	105	AlCuS<g>	86
AsLaO4	221	As2Hg308	212	AlCuS2<g>.....	87
AsLi3O4	222	As2I4<g>	216	AlF<g>	88
AsMoO4	225	As2I6<g>	217	AlF2<g>.....	89
AsN<g>	226	As2Mg308	223	AlF2H<g>	94
AsNa3O4	227	As2Mn308	224	AlF2NaO<g> .	102
AsO<g>	230	As2Ni308	229	AlF20<g>	104
AsO2<g>.....	231	As2O3		AlF3<g>	90
AsO4Rb3.....	241	<ARSENOLITE>.....	232	AlF4K<g>	95
AsO4Re	242	As2O3		AlF4Li<g>	97
AsO4Sc	243	<CLAUDETITE>.....	233	AlF4Na<g>	99
AsO4Tl.....	247	As2O4Ti3.....	246	AlF6K3	96
AsO4Y	248	As2O5	234	AlF6Li3	98
AsP<g>	250	As2O8Pb3	240	AlF6Na3.....	100
AsP3<g>	251	As2O8Sn3	244	AlFH<g>	92
AsS<g>	254	As2O8Sr3	245	AlFH2<g>.....	93
AsSb<g>	259	As2O8Zn3	249	AlH2O2<g>	110
AsSb3<g>	260	As2P2<g>	252	AlFO<g>.....	103
AsSe<g>	263	As2S3	255	AlH<g>	106
AsTe<g>	266	As2Sb2<g>	261	AlH2<g>	107
At<g>	268	As2Se3	264	AlH3<g>.....	108
At2	269	As2SiZn	265	AlH3O3	111
Au	270	As2Te3	167	AlH3O3<g>.....	112
Au2<g>	271	As3P<g>	253	AlH4Li	109
Au2O3	282	As3Sb<g>	262	AlI<g>	120
Au2P3	283	As4O10<g>	239	AlI2<g>	121
AuBr	272	As4O6<g>	235	AlI3<g>	122
AuC<g>	273	As4O7<g>.....	236	AlKO2	124
AuCl<g>	274	As4O8<g>.....	237	AlKO4Si.....	126
AuCl3	275	As4O9<g>.....	238	AlKO6Si2	127
AuD<g>	276	As4S4	256	AlKO8S2	125
AuF3	277	As4S4		AlLiO2	133
AuH<g>	278	<AS4S4_BETA>.....	257	AlN.....	143
AuH3O3	279	As4S4<g>	258	AlN<g>.....	144
AuI	280	As8Ni11	228	AlNaO2	145
AuO<g>	281	AsB	188	AlNaO4Si.....	146
AuS<g>	284	AsBiO4	191	AlO<g>.....	151
AuSe		AsBr3<g>	192	AlO2<g>.....	152
<AU1SE1_ALPHA>...	285	AsCrO4	197	AlP<g>.....	169
AuSe		AsCs3O4	199	AlP2<g>	170
<AU1SE1_BETA>.....	286	AsCu3O4	200	AlS<g>.....	171
AuSe<g>.....	287	AsF<g>	201	AlS2<g>.....	172
AuTe<g>	288	AsF3<g>	202	AlSe<g>.....	176
AuTe2	289	AsF5<g>	203	AlTe<g>	180
B	290	AsFeO4	204	Am	182
B10H14	294	AsGa	206	Am<g>.....	183
B10H14<g>.....	295	AsGaO4	207	Am2O3	185
B12U	748	AsGe	208	AmO2.....	184

I2Cu.....	423	Be2C	361	B2Cl4<g>	304
Br2Ca<g>	421	Be2Cl4<g>	350	B2Cr	481
Br2Co	473	Be3N2	360	B2F4<g>	298
Br2Cr.....	478	BeBr<g>	351	B2H6<g>	291
Br2Cu	494	BeBr2<g>.....	352	B2Hf	535
Br2Eu<g>	502	BeCl<g>	348	B2Mg	579
Br2Fe<g>	509	BeCl2<g>	349	B2Mn	586
Br2Ge<g>	525	BeF<g>	346	B2Nb	616
Br2Hg<g>	540	BeF2<g>	347	B2O<g>	313
Br2K2<g>	559	BeH2	345	B2O2<g>	315
Br2Mg<g>....	575	BeH2O2<g>	357	B2O3	316
Br2Mn<g>....	583	BeH2O2	356	B2S3<g>	322
Br2Mo<g>.....	592	BeI<g>	353	B2Ti	737
Br2Na2<g>..	610	BeI2<g>	354	B2U	746
Br2Ni<g>	622	BeO	355	B2V	759
Br2Pb	641	BeO4S	359	B2V3	754
Br2Pb<g>....	642	BeS<g>	358	B2Zr	792
Br2Pt	652	BF<g>	296	B3Cl3O3<g>	307
Br2S<g>	681	BF2<g>	297	B3F3O3<g>....	301
Br2S2<g>	680	BF3<g>	299	B3H3O3<g>	320
Br2Se<g>	693	BF4K	563	B3Ni4	628
Br2Se2<g>....	692	BFe	514	B3V2	758
Br2Si<g>	697	BFe2	513	B4C	325
Br2Sn<g>	707	BF0<g>	300	B4Mg	580
Br2Sr<g>....	713	BH3O3<g>	319	B4U	747
BrTi<g>	732	BH3O3<g>	532	B4V3	757
Br2V	752	BH02	318	B5H9	292
Br2Zn<g>	778	BH02<g>	531	B5H9<g>	293
Br2Zr	786	Bi	362	B6V5	756
Br2Zr<g>	787	BI<g>	311	Ba	326
Br3Ce<g>	455	BI2<g>.....	312	Ba3N2	340
Br3Cu3<g>	493	Bi2O12S3	372	BaBr<g>	332
Br3Er<g>	500	Bi2O3	369	BaBr2<g>.....	333
Br3Eu.....	503	Bi2S3	371	BaC2	342
Br3Ga	519	Bi2Se3	374	BaCl<g>	330
Br3In<g>	548	Bi2Te3	376	BaCl2<g>	331
Br3Ir	550	BiBr3<g>	367	BaCO3	343
Br3La<g>	565	BiCl<g>	565	BaF<g>	328
Br3Mo<g>	593	BiCl3<g>	366	BaF2<g>	329
Br3P<g>	635	BiF<g>	363	BaH2	327
Br3Pr<g>	649	BiF3<g>	364	BaH2O2<g>	338
Br3Pt	653	BiI3<g>	368	BaI<g>	334
Br3Pu	657	BiS<g>	370	BaI2<g>	335
Br3Re.....	665	BiSe<g>	373	BaN2O6	341
Br3Rh	667	BiTe<g>	375	BaO<g>.....	336
Br3Sb<g>	686	BMn	585	BaO2	337
Br3Si<g>	698	BMo	597	BaO4S	339
Br3Tb<g>	720	BN	323	BBr<g>	308
Br3Ti<g>	734	BNi	626	BBr2<g>	309
Br3Tm<g>	743	BNi2.....	627	BBr3<g>.....	310
Br3V<g>	753	BO<g>	314	BCl<g>	302
Br3Zr	788	BO2<g>	317	BCl2<g>	303
Br3Zr<g>	789	BO2Cs	486	BCl3<g>	305
Br4C<g>	400	BO2Cs<g>	487	BClO<g>	306
Br4Cr<g>	479	BO2Rb<g>	663	BCr	480
Br4Ge<g>....	526	BP	324	Be	344

CeCl3<g>	454	C2K2N2<g>... ..	409	Br4Hf<g>	534
CeF3	453	C2N2<g>.....	406	Br4Mg2<g>	576
CeH2	452	C3<g>.....	381	Br4Mo<g>	594
CeI3<g>	456	(NaCN)2<g>	612	Br4Pb<g>	643
CeN	465	Ni(Co)4	624	Br4Pt	654
CeO<g>	457	C4NiO4<g>	625	Br4Si<g>	699
CeO2	459	(Co)5Fe	511	Br4Sn<g>	708
CeS	460	CHO.....	385	Br4Th	727
CeS<g>	461	CH2O2.....	387	Br4Ti<g>... ..	735
CF<g>	389	C2H2<g>.....	383	Br4Zr	790
CF2<g>	390	C6H6<g>	384	Br4Zr<g>	791
CF3<g>	391	C6MoO6	595	Br5Nb	615
CF4<g>	393	C6MoO6<g>.....	596	Br5Nb<g>	614
CH2O<g>	388	W(CO)6	767	Br5Ta<g>	718
CH2O2	387	Ca	412	Br5W<g>	765
Cl4<g>	401	Ca<g>	413	Br6Ga2<g>... ..	520
CKN	407	Ca3N2	430	Br6W<g>	766
CKN<g>.....	408	Ca3P2	432	BrCa<g>	420
Cl<g>	467	CaCl<g>	418	Br2Cd<g>.....	440
Cl2<g>	468	CaCl2<g>	419	BrCs<g>	484
Cl2Co	471	CaF<g>	416	BrCu	491
Cl2Co<g>	472	CaF2<g>	417	BrCu<g>	492
Cl2Cr<g>	476	CaH<g>	414	BrGa<g>	518
Cl2CrO2<g>.....	477	CaH2	415	BrH<g>	530
Cl2Cu.....	490	CaH2O2	426	BrH4N	601
Cl2Fe<g>.....	508	CaHO4P	433	BrHg<g>	539
Cl2Ga<g>	517	CaI<g>	422	BrIn<g>	547
Cl2Ge<g>	524	CaI2<g>	423	BrK	557
Cl2H2Si<g>.....	700	CaN2O6	431	BrK<g>	558
Cl2Hg<g>.....	538	CaO	424	BrLi	568
Cl2In<g>.....	546	CaO2	425	BrMg<g>	574
Cl2K2<g>	556	CaO3S	428	BrMo<g>	591
Cl2Mg<g>	573	CaO4S	429	BrNa<g>	609
Cl2Mn<g>	582	CaS<g>	427	BrNi<g>	621
Cl2Mo<g>.....	589	CCl<g>	394	BrPb<g>	640
Cl2MoO2<g>.....	590	CCl3<g>	396	BrRb.....	661
Cl2Na2<g>.....	607	CCl4	398	BrSr<g>	712
Cl2Ni<g>.....	620	CCl4<g>	399	BrTi<g>	732
Cl2Pb<g>	639	Cd	436	BrTl<g>	741
Cl2Pd<g>	646	Cd<g>	437	BrW<g>	764
Cl2Pt	651	CdCl2<g>	439	BrZr<g>	785
Cl2S2<g>	679	CdF2<g>	438	BS<g>	321
Cl2Se<g>	691	CdI2	441	BTi	736
Cl2Si<g>.....	696	CdN2O6	448	BV	755
Cl2Sn<g>	706	CdO	442	BW	769
Cl2Sr<g>	711	CdO3Se	446	BW2	768
Cl2Ta<g>	717	CdO4S	445	C	377
Cl2Te<g>.....	724	CdS	443	C<g>	378
Cl2Ti<g>.....	731	CdS<g>	444	C2<g>.....	379
Cl2V	751	CdSb.....	449	C2Ca	434
Cl2W<g>.....	763	CdTe	447	C2Ce	466
Cl2Yb.....	774	Ce	451	C2Cl4<g>.....	395
Cl2Zn<g>.....	777	Ce2O2S	464	C2Cl6<g>	397
Cl2Zr.....	783	Ce2O3	458	C2F6<g>	392
Cl2Zr<g>.....	784	Ce2S3	463	C2H6<g>.....	382
ClCo<g>.....	470	Ce3S4	462	C2H6O<g>... ..	386

Rb	658	Cs<g>	403	ClCs<g>	483
Rb<g>	659	Cs2<g>	404	ClCu<g>	489
Re	664	CSi<g>	703	ClFe<g>	507
Rh	666	CSi2<g>	702	ClGe<g>	523
Ru	668	Cu	488	ClK	554
S	669	Dy	496	ClK<g>	555
S<g>	670	Dy<g>	497	ClFMg<g>	577
S2<g>	671	Er	498	ClGa<g>	516
S3<g>	672	Er<g>	499	ClH<g>	529
S4<g>	673	Eu	501	ClH3Si<g>	701
S5<g>	674	F<g>	504	ClH4N	600
S6<g>	675	F2<g>	505	ClHg<g>	537
S7<g>	676	Fe	506	ClIn<g>	545
S8<g>	677	Ga	515	ClLi<g>	567
Sb	682	Gd	521	ClMg<g>	572
Sb<g>	683	Ge	522	ClMo<g>	588
Sb2<g>	684	H<g>	528	ClNa<g>	606
Sb4<g>	685	H2<g>	527	ClNaO4	608
Sc	687	Hf	533	ClNi<g>	619
Sc<g>	688	Hg	536	ClNO<g>	602
Se	689	Ho	541	ClNO2<g>	603
Se<g>	690	I<g>	542	ClPb<g>	638
Si	694	I2<g>	543	ClRb<g>	660
Si<g>	695	In	544	ClS<g>	678
Sm	704	Ir	549	ClSr<g>	710
Sn	705	K	551	ClTa<g>	716
Sr	709	K<g>	552	ClTi<g>	730
Ta	715	K2<g>	553	ClTl	740
Tb	719	La	564	ClW<g>	762
Tc	721	Li	566	ClZr<g>	782
Te	722	Lu	570	MgCO3	578
Te2<g>	723	Mg	571	MnCO3	584
Th	725	Mn	581	CN<g>	405
Th<g>	726	Mo	587	Na2CO3	611
Ti...	728	N<g>	598	NiCO3	623
Ti<g>	729	N2<g>	599	CNCu	495
Tl	738	Na	604	CNK	561
Tl<g>	739	Na<g>	605	CNK<g>	562
Tm	742	Nb	613	CNNa	410
U	744	Nd	617	CNNa<g>	411
U<g>	745	Ni	618	Co	469
V	749	O<g>	629	CO<g>	402
V<g>	750	O2<g>	630	CO3Ca	435
W	760	O3<g>	631	CO3Cd	450
W<g>	761	Os	632	CO3Cs2	485
Y	770	P	633	CO3Co	474
Y<g>	771	P<g>	634	CO3Fe	510
Yb	772	Pb	636	CO3Li2	569
Yb<g>	773	Pb<g>	637	CO3Pb	644
Zn	775	Pd	645	CO3Rb2	662
Zn<g>	776	Pr<g>	647	CO3Sr	714
Zr	780	Pt	650	CO3Zn	779
Zr<g>	781	Pu	655	Cr	475
		Pu<g>	656	Cs	482

Ac

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.000	0.00000E+00	62.000	-18485.	3.2385
300.00	27.020	49.968	62.167	-18600.	3.2385
350.00	27.556	1414.4	66.372	-21816.	3.2558
400.00	28.093	2805.6	70.087	-25229.	3.2945
450.00	28.629	4223.6	73.427	-28818.	3.3451
500.00	29.166	5668.5	76.471	-32567.	3.4022
550.00	29.703	7140.2	79.276	-36462.	3.4627
600.00	30.239	8638.8	81.884	-40491.	3.5250
650.00	30.776	10164.	84.325	-44647.	3.5878
700.00	31.313	11716.	86.626	-48922.	3.6505
750.00	31.849	13295.	88.804	-53308.	3.7126
800.00	32.386	14901.	90.877	-57800.	3.7739
850.00	32.923	16534.	92.856	-62394.	3.8342
900.00	33.459	18194.	94.753	-67084.	3.8934
950.00	33.996	19880.	96.577	-71868.	3.9515
1000.0	34.533	21593.	98.334	-76741.	4.0084
1050.0	35.069	23333.	100.03	-81700.	4.0643
1100.0	35.606	25100.	101.68	-86743.	4.1190
1150.0	36.143	26894.	103.27	-91867.	4.1726
1200.0	36.679	28714.	104.82	-97070.	4.2252
1250.0	37.216	30562.	106.33	-1.02349E+05	4.2768
1300.0	37.753	32436.	107.80	-1.07702E+05	4.3274
1323.0	38.000	33307.	108.46	-1.10189E+05	4.3504
1323.0	42.000	45307.	117.53	-1.10189E+05	4.3504
1350.0	42.000	46441.	118.38	-1.13374E+05	4.3866
1400.0	42.000	48541.	119.91	-1.19331E+05	4.4522
1450.0	42.000	50641.	121.38	-1.25364E+05	4.5160
1500.0	42.000	52741.	122.81	-1.31469E+05	4.5780
1550.0	42.000	54841.	124.18	-1.37644E+05	4.6384
1600.0	42.000	56941.	125.52	-1.43886E+05	4.6973
1650.0	42.000	59041.	126.81	-1.50195E+05	4.7546
1700.0	42.000	61141.	128.06	-1.56567E+05	4.8106
1750.0	42.000	63241.	129.28	-1.63000E+05	4.8652
1800.0	42.000	65341.	130.46	-1.69494E+05	4.9185
1850.0	42.000	67441.	131.61	-1.76046E+05	4.9705
1900.0	42.000	69541.	132.73	-1.82655E+05	5.0214
1950.0	42.000	71641.	133.83	-1.89319E+05	5.0712
2000.0	42.000	73741.	134.89	-1.96037E+05	5.1198
2050.0	42.000	75841.	135.93	-2.02808E+05	5.1675
2100.0	42.000	77941.	136.94	-2.09629E+05	5.2141
2150.0	42.000	80041.	137.93	-2.16501E+05	5.2598
2200.0	42.000	82141.	138.89	-2.23422E+05	5.3046
2250.0	42.000	84241.	139.84	-2.30390E+05	5.3485
2300.0	42.000	86341.	140.76	-2.37405E+05	5.3915
2350.0	42.000	88441.	141.66	-2.44466E+05	5.4337
2400.0	42.000	90541.	142.55	-2.51571E+05	5.4752
2450.0	42.000	92641.	143.41	-2.58720E+05	5.5158
2500.0	42.000	94741.	144.26	-2.65912E+05	5.5558
2550.0	42.000	96841.	145.09	-2.73146E+05	5.5950
2600.0	42.000	98941.	145.91	-2.80421E+05	5.6336
2650.0	42.000	1.01041E+05	146.71	-2.87736E+05	5.6715
2700.0	42.000	1.03141E+05	147.49	-2.95092E+05	5.7087
2750.0	42.000	1.05241E+05	148.26	-3.02486E+05	5.7454
2800.0	42.000	1.07341E+05	149.02	-3.09918E+05	5.7814
2850.0	42.000	1.09441E+05	149.76	-3.17387E+05	5.8169
2900.0	42.000	1.11541E+05	150.49	-3.24894E+05	5.8518
2950.0	42.000	1.13641E+05	151.21	-3.32437E+05	5.8862
3000.0	42.000	1.15741E+05	151.92	-3.40015E+05	5.9200

Ag

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.397	0.00000E+00	42.551	-12687.	2.2226
300.00	25.403	46.990	42.708	-12765.	2.2226
350.00	25.589	1321.6	46.637	-15001.	2.2388
400.00	25.812	2606.5	50.068	-17421.	2.2749
450.00	26.061	3903.2	53.123	-20002.	2.3217
500.00	26.331	5212.9	55.882	-22728.	2.3743
550.00	26.619	6536.6	58.405	-25586.	2.4299
600.00	26.923	7875.0	60.734	-28566.	2.4868
650.00	27.241	9229.1	62.902	-31657.	2.5439
700.00	27.574	10599.	64.933	-34854.	2.6007
750.00	27.920	11987.	66.847	-38148.	2.6568
800.00	28.279	13392.	68.660	-41537.	2.7120
850.00	28.651	14815.	70.386	-45013.	2.7661
900.00	29.036	16257.	72.034	-48574.	2.8191
950.00	29.433	17719.	73.615	-52215.	2.8709
1000.0	29.843	19201.	75.135	-55934.	2.9216
1050.0	30.265	20703.	76.601	-59728.	2.9712
1100.0	30.699	22227.	78.019	-63594.	3.0197
1150.0	31.146	23773.	79.393	-67529.	3.0672
1200.0	31.604	25342.	80.729	-71532.	3.1136
1234.9	31.932	26452.	81.640	-74368.	3.1455
1234.9	33.472	37748.	90.788	-74368.	3.1455
1250.0	33.472	38253.	91.194	-75739.	3.1649
1300.0	33.472	39926.	92.507	-80332.	3.2277
1350.0	33.472	41600.	93.770	-84989.	3.2883
1400.0	33.472	43274.	94.987	-89708.	3.3470
1450.0	33.472	44947.	96.162	-94487.	3.4037
1500.0	33.472	46621.	97.296	-99324.	3.4587
1550.0	33.472	48294.	98.394	-1.04216E+05	3.5120
1600.0	33.472	49968.	99.457	-1.09163E+05	3.5637
1650.0	33.472	51642.	100.49	-1.14161E+05	3.6140
1700.0	33.472	53315.	101.49	-1.19211E+05	3.6628
1750.0	33.472	54989.	102.46	-1.24309E+05	3.7103
1800.0	33.472	56662.	103.40	-1.29456E+05	3.7566
1850.0	33.472	58336.	104.32	-1.34649E+05	3.8017
1900.0	33.472	60010.	105.21	-1.39887E+05	3.8457
1950.0	33.472	61683.	106.08	-1.45169E+05	3.8886
2000.0	33.472	63357.	106.93	-1.50495E+05	3.9304
2050.0	33.472	65030.	107.75	-1.55862E+05	3.9713
2100.0	33.472	66704.	108.56	-1.61270E+05	4.0113
2150.0	33.472	68378.	109.35	-1.66717E+05	4.0503
2200.0	33.472	70051.	110.12	-1.72204E+05	4.0885
2250.0	33.472	71725.	110.87	-1.77729E+05	4.1259
2300.0	33.472	73398.	111.60	-1.83290E+05	4.1626
2350.0	33.472	75072.	112.32	-1.88889E+05	4.1984
2400.0	33.472	76746.	113.03	-1.94523E+05	4.2336
2450.0	33.472	78419.	113.72	-2.00191E+05	4.2680
2500.0	33.472	80093.	114.39	-2.05894E+05	4.3018
2550.0	33.472	81766.	115.06	-2.11631E+05	4.3350
2600.0	33.472	83440.	115.71	-2.17400E+05	4.3675
2650.0	33.472	85114.	116.35	-2.23201E+05	4.3994
2700.0	33.472	86787.	116.97	-2.29034E+05	4.4308
2750.0	33.472	88461.	117.59	-2.34898E+05	4.4616
2800.0	33.472	90134.	118.19	-2.40792E+05	4.4919
2850.0	33.472	91808.	118.78	-2.46717E+05	4.5217
2900.0	33.472	93482.	119.36	-2.52670E+05	4.5510
2950.0	33.472	95155.	119.93	-2.58653E+05	4.5798
3000.0	33.472	96829.	120.50	-2.64664E+05	4.6081

Ag2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.066	4.07619E+05	256.90	3.31024E+05	-57.993
300.00	37.073	4.07688E+05	257.13	3.30549E+05	-57.552
350.00	37.236	4.09546E+05	262.86	3.17545E+05	-47.390
400.00	37.363	4.11411E+05	267.84	3.04275E+05	-39.733
450.00	37.469	4.13282E+05	272.25	2.90771E+05	-33.751
500.00	37.563	4.15157E+05	276.20	2.77058E+05	-28.943
550.00	37.647	4.17038E+05	279.78	2.63157E+05	-24.992
600.00	37.726	4.18922E+05	283.06	2.49085E+05	-21.684
650.00	37.800	4.20810E+05	286.08	2.34855E+05	-18.873
700.00	37.871	4.22702E+05	288.89	2.20480E+05	-16.452
750.00	37.940	4.24597E+05	291.50	2.05970E+05	-14.345
800.00	38.008	4.26496E+05	293.95	1.91332E+05	-12.492
850.00	38.074	4.28398E+05	296.26	1.76576E+05	-10.851
900.00	38.138	4.30303E+05	298.44	1.61709E+05	-9.3851
950.00	38.202	4.32212E+05	300.50	1.46735E+05	-8.0678
1000.0	38.265	4.34123E+05	302.46	1.31660E+05	-6.8770
1050.0	38.327	4.36038E+05	304.33	1.16490E+05	-5.7949
1100.0	38.389	4.37956E+05	306.12	1.01228E+05	-4.8068
1150.0	38.450	4.39877E+05	307.82	85879.	-3.9007
1200.0	38.511	4.41801E+05	309.46	70447.	-3.0664
1250.0	38.572	4.43728E+05	311.04	54934.	-2.2955
1300.0	38.632	4.45658E+05	312.55	39344.	-1.5808
1350.0	38.692	4.47591E+05	314.01	23680.	-0.91622
1400.0	38.751	4.49528E+05	315.42	7944.4	-0.29640
1450.0	38.811	4.51467E+05	316.78	-7860.6	0.28316
1500.0	38.870	4.53409E+05	318.09	-23733.	0.82642
1550.0	38.928	4.55354E+05	319.37	-39669.	1.3368
1600.0	38.987	4.57301E+05	320.61	-55669.	1.8174
1650.0	39.045	4.59252E+05	321.81	-71729.	2.2707
1700.0	39.103	4.61206E+05	322.97	-87849.	2.6992
1750.0	39.161	4.63163E+05	324.11	-1.04026E+05	3.1049
1800.0	39.219	4.65122E+05	325.21	-1.20259E+05	3.4897
1850.0	39.277	4.67085E+05	326.29	-1.36547E+05	3.8553
1900.0	39.334	4.69050E+05	327.34	-1.52888E+05	4.2031
1950.0	39.391	4.71018E+05	328.36	-1.69280E+05	4.5344
2000.0	39.447	4.72989E+05	329.36	-1.85723E+05	4.8505
2050.0	39.506	4.74963E+05	330.33	-2.02215E+05	5.1524
2100.0	39.547	4.76939E+05	331.28	-2.18756E+05	5.4411
2150.0	39.570	4.78917E+05	332.21	-2.35343E+05	5.7176
2200.0	39.577	4.80896E+05	333.12	-2.51977E+05	5.9825
2250.0	39.569	4.82875E+05	334.01	-2.68655E+05	6.2368
2300.0	39.548	4.84853E+05	334.88	-2.85378E+05	6.4810
2350.0	39.514	4.86829E+05	335.73	-3.02143E+05	6.7157
2400.0	39.469	4.88804E+05	336.56	-3.18951E+05	6.9416
2450.0	39.414	4.90776E+05	337.38	-3.35799E+05	7.1591
2500.0	39.349	4.92745E+05	338.17	-3.52688E+05	7.3688
2550.0	39.275	4.94711E+05	338.95	-3.69616E+05	7.5711
2600.0	39.193	4.96672E+05	339.71	-3.86583E+05	7.7664
2650.0	39.104	4.98630E+05	340.46	-4.03588E+05	7.9550
2700.0	39.007	5.00583E+05	341.19	-4.20629E+05	8.1373
2750.0	38.904	5.02530E+05	341.90	-4.37706E+05	8.3138
2800.0	38.794	5.04473E+05	342.60	-4.54819E+05	8.4845
2850.0	38.679	5.06410E+05	343.29	-4.71966E+05	8.6500
2900.0	38.559	5.08341E+05	343.96	-4.89148E+05	8.8103
2950.0	38.433	5.10266E+05	344.62	-5.06362E+05	8.9658
3000.0	38.303	5.12184E+05	345.26	-5.23609E+05	9.1166

AgBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.622	96490.	256.98	19871.	-3.4812
300.00	36.642	96558.	257.21	19395.	-3.3770
350.00	37.062	98401.	262.89	6389.5	-0.95356
400.00	37.334	1.00262E+05	267.86	-6881.8	0.89865
450.00	37.521	1.02133E+05	272.27	-20387.	2.3664
500.00	37.654	1.04013E+05	276.23	-34101.	3.5624
550.00	37.753	1.05898E+05	279.82	-48004.	4.5589
600.00	37.828	1.07788E+05	283.11	-62078.	5.4043
650.00	37.886	1.09681E+05	286.14	-76310.	6.1322
700.00	37.933	1.11576E+05	288.95	-90689.	6.7671
750.00	37.970	1.13474E+05	291.57	-1.05202E+05	7.3268
800.00	38.001	1.15373E+05	294.02	-1.19843E+05	7.8247
850.00	38.026	1.17274E+05	296.32	-1.34602E+05	8.2714
900.00	38.047	1.19176E+05	298.50	-1.49473E+05	8.6750
950.00	38.065	1.21079E+05	300.56	-1.64450E+05	9.0418
1000.0	38.081	1.22982E+05	302.51	-1.79527E+05	9.3773
1050.0	38.094	1.24887E+05	304.37	-1.94699E+05	9.6855
1100.0	38.105	1.26792E+05	306.14	-2.09962E+05	9.9700
1150.0	38.115	1.28697E+05	307.83	-2.25312E+05	10.234
1200.0	38.124	1.30603E+05	309.46	-2.40744E+05	10.479
1250.0	38.132	1.32509E+05	311.01	-2.56256E+05	10.708
1300.0	38.139	1.34416E+05	312.51	-2.71844E+05	10.923
1350.0	38.145	1.36323E+05	313.95	-2.87506E+05	11.124
1400.0	38.150	1.38231E+05	315.34	-3.03238E+05	11.314
1450.0	38.155	1.40138E+05	316.67	-3.19039E+05	11.493
1500.0	38.160	1.42046E+05	317.97	-3.34905E+05	11.662
1550.0	38.164	1.43954E+05	319.22	-3.50835E+05	11.823
1600.0	38.167	1.45863E+05	320.43	-3.66826E+05	11.975
1650.0	38.171	1.47771E+05	321.60	-3.82877E+05	12.121
1700.0	38.174	1.49680E+05	322.74	-3.98986E+05	12.259
1750.0	38.176	1.51588E+05	323.85	-4.15151E+05	12.391
1800.0	38.179	1.53497E+05	324.93	-4.31371E+05	12.518
1850.0	38.181	1.55406E+05	325.97	-4.47643E+05	12.639
1900.0	38.183	1.57315E+05	326.99	-4.63967E+05	12.755
1950.0	38.185	1.59225E+05	327.98	-4.80342E+05	12.867
2000.0	38.187	1.61134E+05	328.95	-4.96765E+05	12.974

AgBrO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	104.37	-2.63592E+05	153.97	-3.09498E+05	54.221
300.00	104.60	-2.63399E+05	154.62	-3.09784E+05	53.937
350.00	110.88	-2.58012E+05	171.21	-3.17936E+05	47.448
400.00	117.15	-2.52311E+05	186.43	-3.26882E+05	42.685

AgCN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	66.487	1.45996E+05	107.19	1.14037E+05	-19.978
300.00	66.526	1.46119E+05	107.60	1.13839E+05	-19.821
350.00	67.572	1.49471E+05	117.93	1.08194E+05	-16.147
400.00	68.618	1.52876E+05	127.03	1.02066E+05	-13.328
450.00	69.664	1.56333E+05	135.17	95507.	-11.086
500.00	70.710	1.59843E+05	142.56	88561.	-9.2517

Ag₂CO₃

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	111.62	-5.05427E+05	167.36	-5.55326E+05	97.288
300.00	111.82	-5.05221E+05	168.05	-5.55636E+05	96.742
350.00	117.23	-4.99494E+05	185.69	-5.64487E+05	84.243
400.00	122.63	-4.93498E+05	201.70	-5.74178E+05	74.978
450.00	128.04	-4.87231E+05	216.46	-5.84637E+05	67.861
500.00	133.45	-4.80694E+05	230.23	-5.95807E+05	62.242
550.00	138.86	-4.73886E+05	243.20	-6.07646E+05	57.708
600.00	144.26	-4.66808E+05	255.51	-6.20116E+05	53.985

AgCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.642	92550.	246.13	19167.	-3.3578
300.00	35.662	92616.	246.35	18711.	-3.2578
350.00	36.080	94410.	251.88	6252.2	-0.93306
400.00	36.351	96222.	256.72	-6465.3	0.84427
450.00	36.537	98044.	261.01	-19411.	2.2531
500.00	36.670	99874.	264.87	-32559.	3.4013
550.00	36.769	1.01711E+05	268.37	-45891.	4.3583
600.00	36.843	1.03551E+05	271.57	-59391.	5.1703
650.00	36.902	1.05395E+05	274.52	-73044.	5.8697
700.00	36.948	1.07241E+05	277.26	-86839.	6.4799
750.00	36.985	1.09089E+05	279.81	-1.00767E+05	7.0178
800.00	37.016	1.10939E+05	282.20	-1.14818E+05	7.4966
850.00	37.041	1.12791E+05	284.44	-1.28984E+05	7.9262
900.00	37.062	1.14643E+05	286.56	-1.43260E+05	8.3144
950.00	37.080	1.16497E+05	288.56	-1.57638E+05	8.6673
1000.0	37.096	1.18351E+05	290.47	-1.72114E+05	8.9901
1050.0	37.109	1.20207E+05	292.28	-1.86683E+05	9.2867

1100.0	37.120	1.22062E+05	294.00	-2.01340E+05	9.5606
1150.0	37.130	1.23919E+05	295.65	-2.16082E+05	9.8145
1200.0	37.139	1.25775E+05	297.23	-2.30904E+05	10.051
1250.0	37.147	1.27632E+05	298.75	-2.45804E+05	10.271
1300.0	37.154	1.29490E+05	300.21	-2.60778E+05	10.478
1350.0	37.160	1.31348E+05	301.61	-2.75824E+05	10.672
1400.0	37.165	1.33206E+05	302.96	-2.90938E+05	10.855
1450.0	37.170	1.35064E+05	304.26	-3.06119E+05	11.027
1500.0	37.175	1.36923E+05	305.52	-3.21364E+05	11.191
1550.0	37.179	1.38782E+05	306.74	-3.36671E+05	11.345
1600.0	37.182	1.40641E+05	307.92	-3.52038E+05	11.493
1650.0	37.186	1.42500E+05	309.07	-3.67463E+05	11.633
1700.0	37.189	1.44359E+05	310.18	-3.82944E+05	11.766
1750.0	37.191	1.46219E+05	311.26	-3.98480E+05	11.894
1800.0	37.194	1.48078E+05	312.30	-4.14069E+05	12.016
1850.0	37.196	1.49938E+05	313.32	-4.29710E+05	12.133
1900.0	37.198	1.51798E+05	314.32	-4.45401E+05	12.245
1950.0	37.200	1.53658E+05	315.28	-4.61141E+05	12.352
2000.0	37.202	1.55518E+05	316.22	-4.76929E+05	12.456
2050.0	37.204	1.57378E+05	317.14	-4.92763E+05	12.555
2100.0	37.205	1.59238E+05	318.04	-5.08643E+05	12.651
2150.0	37.207	1.61099E+05	318.91	-5.24567E+05	12.744
2200.0	37.208	1.62959E+05	319.77	-5.40534E+05	12.834

AgClO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	100.18	-30292.	141.84	-72581.	12.716
300.00	100.42	-30106.	142.46	-72844.	12.683
350.00	106.69	-24929.	158.41	-80372.	11.995
400.00	112.97	-19437.	173.07	-88663.	11.578

450.00	119.24	-13632.	186.73	-97662.	11.336
500.00	125.52	-7512.8	199.62	-1.07324E+05	11.212

Ag₂CrO₄

T	Cp	H-Hser	S	G-Hser	Beta
K	J/(mol.K)	J/mol	J/(mol.K)	J/mol	-G/RTln10

298.15	142.15	-7.21322E+05	217.57	-7.86190E+05	137.73
300.00	142.40	-7.21058E+05	218.45	-7.86593E+05	136.95
350.00	148.37	-7.13784E+05	240.86	-7.98086E+05	119.10
400.00	153.42	-7.06237E+05	261.01	-8.10641E+05	105.86
450.00	157.94	-6.98451E+05	279.35	-8.24157E+05	95.663
500.00	162.12	-6.90448E+05	296.21	-8.38552E+05	87.601

AgD<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.992	2.80000E+05	210.63	2.17202E+05	-38.052
300.00	30.018	2.80056E+05	210.81	2.16812E+05	-37.749
350.00	30.718	2.81574E+05	215.49	2.06152E+05	-30.766
400.00	31.375	2.83127E+05	219.64	1.95272E+05	-25.499
450.00	31.990	2.84711E+05	223.37	1.84195E+05	-21.380
500.00	32.566	2.86325E+05	226.77	1.72940E+05	-18.066
550.00	33.102	2.87967E+05	229.90	1.61523E+05	-15.340
600.00	33.599	2.89635E+05	232.80	1.49954E+05	-13.054
650.00	34.057	2.91326E+05	235.51	1.38246E+05	-11.109
700.00	34.476	2.93040E+05	238.05	1.26406E+05	-9.4323
750.00	34.857	2.94773E+05	240.44	1.14444E+05	-7.9704
800.00	35.198	2.96525E+05	242.70	1.02364E+05	-6.6835
850.00	35.501	2.98292E+05	244.84	90175.	-5.5414
900.00	35.766	3.00074E+05	246.88	77882.	-4.5200
950.00	35.991	3.01868E+05	248.82	65489.	-3.6007
1000.0	36.175	3.03673E+05	250.67	53001.	-2.7684
1050.0	36.391	3.05487E+05	252.44	40423.	-2.0109
1100.0	36.580	3.07311E+05	254.14	27758.	-1.3181
1150.0	36.748	3.09145E+05	255.77	15010.	-0.68178
1200.0	36.898	3.10986E+05	257.34	2182.6	-9.5E-02
1250.0	37.034	3.12834E+05	258.85	-10722.	0.44804
1300.0	37.156	3.14689E+05	260.30	-23701.	0.95229
1350.0	37.268	3.16550E+05	261.70	-36751.	1.4220
1400.0	37.370	3.18416E+05	263.06	-49871.	1.8606
1450.0	37.464	3.20286E+05	264.37	-63057.	2.2715
1500.0	37.552	3.22162E+05	265.65	-76307.	2.6572
1550.0	37.634	3.24042E+05	266.88	-89621.	3.0201
1600.0	37.711	3.25925E+05	268.07	-1.02995E+05	3.3623
1650.0	37.783	3.27813E+05	269.24	-1.16428E+05	3.6857
1700.0	37.851	3.29703E+05	270.37	-1.29918E+05	3.9918
1750.0	37.916	3.31598E+05	271.46	-1.43464E+05	4.2820
1800.0	37.979	3.33495E+05	272.53	-1.57064E+05	4.5578
1850.0	38.038	3.35395E+05	273.57	-1.70716E+05	4.8200
1900.0	38.096	3.37299E+05	274.59	-1.84421E+05	5.0699
1950.0	38.151	3.39205E+05	275.58	-1.98175E+05	5.3084
2000.0	38.205	3.41114E+05	276.55	-2.11978E+05	5.5362
2050.0	38.257	3.43025E+05	277.49	-2.25829E+05	5.7541
2100.0	38.307	3.44939E+05	278.41	-2.39727E+05	5.9627
2150.0	38.357	3.46856E+05	279.31	-2.53670E+05	6.1628
2200.0	38.406	3.48775E+05	280.20	-2.67658E+05	6.3548
2250.0	38.453	3.50697E+05	281.06	-2.81689E+05	6.5394
2300.0	38.500	3.52620E+05	281.91	-2.95764E+05	6.7168
2350.0	38.547	3.54547E+05	282.73	-3.09880E+05	6.8877
2400.0	38.592	3.56475E+05	283.55	-3.24037E+05	7.0523
2450.0	38.638	3.58406E+05	284.34	-3.38234E+05	7.2111
2500.0	38.682	3.60339E+05	285.12	-3.52471E+05	7.3643
2550.0	38.727	3.62274E+05	285.89	-3.66746E+05	7.5123
2600.0	38.771	3.64212E+05	286.64	-3.81060E+05	7.6554
2650.0	38.815	3.66151E+05	287.38	-3.95410E+05	7.7938
2700.0	38.859	3.68093E+05	288.11	-4.09798E+05	7.9278
2750.0	38.903	3.70037E+05	288.82	-4.24221E+05	8.0576
2800.0	38.947	3.71983E+05	289.52	-4.38680E+05	8.1835
2850.0	38.990	3.73932E+05	290.21	-4.53173E+05	8.3055
2900.0	39.034	3.75882E+05	290.89	-4.67701E+05	8.4240
2950.0	39.078	3.77835E+05	291.56	-4.82262E+05	8.5390
3000.0	39.122	3.79790E+05	292.22	-4.96856E+05	8.6508

AgF

T	Cp	H-Hser	S	G-Hser	Beta
K	J/(mol.K)	J/mol	J/(mol.K)	J/mol	-G/RTln10
298.15	51.921	-2.02924E+05	83.680	-2.27873E+05	39.921
300.00	51.961	-2.02828E+05	84.001	-2.28028E+05	39.702
350.00	53.034	-2.00203E+05	92.092	-2.32435E+05	34.688
400.00	54.107	-1.97524E+05	99.244	-2.37222E+05	30.977
450.00	55.181	-1.94792E+05	105.68	-2.42348E+05	28.130
500.00	56.254	-1.92006E+05	111.55	-2.47780E+05	25.885
550.00	57.327	-1.89167E+05	116.96	-2.53495E+05	24.074
600.00	58.400	-1.86274E+05	121.99	-2.59470E+05	22.588
650.00	59.473	-1.83327E+05	126.71	-2.65689E+05	21.350
700.00	60.547	-1.80326E+05	131.16	-2.72137E+05	20.307

AgF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.963	7112.8	235.75	-63177.	11.068
300.00	33.983	7175.7	235.96	-63613.	11.076
350.00	34.403	8886.1	241.23	-75546.	11.274
400.00	34.675	10613.	245.85	-87726.	11.455
450.00	34.862	12352.	249.94	-1.00122E+05	11.622
500.00	34.995	14099.	253.62	-1.12713E+05	11.775
550.00	35.094	15851.	256.96	-1.25479E+05	11.917
600.00	35.169	17608.	260.02	-1.38405E+05	12.049
650.00	35.227	19368.	262.84	-1.51477E+05	12.173
700.00	35.274	21130.	265.45	-1.64685E+05	12.289
750.00	35.311	22895.	267.89	-1.78019E+05	12.398
800.00	35.342	24661.	270.17	-1.91471E+05	12.501
850.00	35.367	26429.	272.31	-2.05033E+05	12.599
900.00	35.388	28198.	274.33	-2.18700E+05	12.693
950.00	35.406	29968.	276.24	-2.32465E+05	12.781
1000.0	35.422	31739.	278.06	-2.46323E+05	12.866
1050.0	35.435	33510.	279.79	-2.60269E+05	12.947
1100.0	35.446	35282.	281.44	-2.74300E+05	13.025
1150.0	35.456	37055.	283.01	-2.88412E+05	13.100
1200.0	35.465	38828.	284.52	-3.02601E+05	13.172
1250.0	35.473	40601.	285.97	-3.16863E+05	13.241
1300.0	35.480	42375.	287.36	-3.31197E+05	13.307
1350.0	35.486	44149.	288.70	-3.45599E+05	13.372
1400.0	35.491	45923.	289.99	-3.60066E+05	13.434
1450.0	35.496	47698.	291.24	-3.74597E+05	13.494
1500.0	35.501	49473.	292.44	-3.89189E+05	13.552
1550.0	35.505	51248.	293.61	-4.03841E+05	13.609
1600.0	35.508	53024.	294.73	-4.18549E+05	13.664
1650.0	35.512	54799.	295.83	-4.33313E+05	13.717
1700.0	35.515	56575.	296.89	-4.48131E+05	13.769
1750.0	35.517	58351.	297.92	-4.63001E+05	13.819
1800.0	35.520	60126.	298.92	-4.77922E+05	13.869
1850.0	35.522	61903.	299.89	-4.92892E+05	13.916
1900.0	35.525	63679.	300.84	-5.07911E+05	13.963
1950.0	35.527	65455.	301.76	-5.22976E+05	14.009
2000.0	35.528	67231.	302.66	-5.38086E+05	14.053

AgH<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.323	2.79000E+05	204.73	2.17960E+05	-38.185
300.00	29.328	2.79054E+05	204.91	2.17581E+05	-37.883
350.00	29.579	2.80526E+05	209.45	2.07219E+05	-30.925
400.00	29.951	2.82014E+05	213.42	1.96646E+05	-25.679
450.00	30.381	2.83522E+05	216.97	1.85884E+05	-21.576
500.00	30.838	2.85053E+05	220.20	1.74954E+05	-18.277
550.00	31.302	2.86606E+05	223.16	1.63869E+05	-15.563
600.00	31.764	2.88183E+05	225.90	1.52642E+05	-13.288
650.00	32.215	2.89782E+05	228.46	1.41282E+05	-11.353
700.00	32.651	2.91404E+05	230.87	1.29798E+05	-9.6854
750.00	33.069	2.93047E+05	233.13	1.18197E+05	-8.2318
800.00	33.467	2.94711E+05	235.28	1.06487E+05	-6.9527
850.00	33.843	2.96393E+05	237.32	94671.	-5.8176
900.00	34.196	2.98095E+05	239.26	82756.	-4.8029
950.00	34.526	2.99813E+05	241.12	70746.	-3.8898
1000.0	34.831	3.01547E+05	242.90	58645.	-3.0632
1050.0	35.111	3.03295E+05	244.61	46457.	-2.3111
1100.0	35.366	3.05057E+05	246.25	34186.	-1.6233
1150.0	35.596	3.06832E+05	247.82	21834.	-0.99169
1200.0	35.800	3.08617E+05	249.34	9404.1	-0.40934
1250.0	35.977	3.10411E+05	250.81	-3099.9	0.12954
1300.0	36.127	3.12214E+05	252.22	-15676.	0.62985
1350.0	36.315	3.14025E+05	253.59	-28321.	1.0958
1400.0	36.485	3.15845E+05	254.91	-41034.	1.5310
1450.0	36.640	3.17673E+05	256.20	-53812.	1.9385
1500.0	36.782	3.19509E+05	257.44	-66653.	2.3210
1550.0	36.913	3.21351E+05	258.65	-79556.	2.6809
1600.0	37.034	3.23200E+05	259.82	-92518.	3.0203
1650.0	37.146	3.25054E+05	260.96	-1.05537E+05	3.3410
1700.0	37.251	3.26914E+05	262.08	-1.18614E+05	3.6445
1750.0	37.350	3.28780E+05	263.16	-1.31745E+05	3.9323
1800.0	37.443	3.30649E+05	264.21	-1.44929E+05	4.2056
1850.0	37.530	3.32524E+05	265.24	-1.58165E+05	4.4657
1900.0	37.613	3.34402E+05	266.24	-1.71452E+05	4.7134
1950.0	37.692	3.36285E+05	267.22	-1.84789E+05	4.9498
2000.0	37.768	3.38171E+05	268.17	-1.98173E+05	5.1756
2050.0	37.841	3.40062E+05	269.11	-2.11605E+05	5.3916
2100.0	37.910	3.41955E+05	270.02	-2.25084E+05	5.5985
2150.0	37.978	3.43853E+05	270.91	-2.38607E+05	5.7969
2200.0	38.043	3.45753E+05	271.79	-2.52175E+05	5.9872
2250.0	38.107	3.47657E+05	272.64	-2.65785E+05	6.1702
2300.0	38.168	3.49564E+05	273.48	-2.79438E+05	6.3461
2350.0	38.228	3.51474E+05	274.30	-2.93133E+05	6.5154
2400.0	38.287	3.53387E+05	275.11	-3.06868E+05	6.6786
2450.0	38.345	3.55303E+05	275.90	-3.20643E+05	6.8360
2500.0	38.402	3.57221E+05	276.67	-3.34458E+05	6.9879
2550.0	38.458	3.59143E+05	277.43	-3.48310E+05	7.1347
2600.0	38.513	3.61067E+05	278.18	-3.62201E+05	7.2765
2650.0	38.568	3.62994E+05	278.91	-3.76128E+05	7.4137
2700.0	38.622	3.64924E+05	279.64	-3.90092E+05	7.5466
2750.0	38.675	3.66856E+05	280.34	-4.04091E+05	7.6753
2800.0	38.729	3.68791E+05	281.04	-4.18126E+05	7.8000
2850.0	38.781	3.70729E+05	281.73	-4.32195E+05	7.9211
2900.0	38.834	3.72669E+05	282.40	-4.46299E+05	8.0385
2950.0	38.887	3.74612E+05	283.07	-4.60435E+05	8.1526
3000.0	38.939	3.76558E+05	283.72	-4.74605E+05	8.2634

AgI<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.978	1.40000E+05	264.19	61231.	-10.727
300.00	36.987	1.40068E+05	264.42	60742.	-10.576
350.00	37.195	1.41923E+05	270.14	47375.	-7.0701
400.00	37.342	1.43787E+05	275.12	33741.	-4.4060
450.00	37.454	1.45657E+05	279.52	19873.	-2.3067
500.00	37.545	1.47532E+05	283.47	5796.1	-0.60550
550.00	37.621	1.49411E+05	287.05	-8468.5	0.80425
600.00	37.688	1.51294E+05	290.33	-22904.	1.9939
650.00	37.748	1.53180E+05	293.35	-37497.	3.0132
700.00	37.803	1.55069E+05	296.15	-52236.	3.8978
750.00	37.854	1.56960E+05	298.76	-67109.	4.6738
800.00	37.903	1.58854E+05	301.20	-82109.	5.3610
850.00	37.949	1.60750E+05	303.50	-97227.	5.9747
900.00	37.994	1.62649E+05	305.67	-1.12457E+05	6.5267
950.00	38.038	1.64550E+05	307.73	-1.27792E+05	7.0263
1000.0	38.080	1.66453E+05	309.68	-1.43228E+05	7.4813
1050.0	38.122	1.68358E+05	311.54	-1.58759E+05	7.8976
1100.0	38.163	1.70265E+05	313.31	-1.74380E+05	8.2804
1150.0	38.203	1.72174E+05	315.01	-1.90089E+05	8.6339
1200.0	38.243	1.74085E+05	316.64	-2.05880E+05	8.9615
1250.0	38.283	1.75998E+05	318.20	-2.21752E+05	9.2663
1300.0	38.322	1.77913E+05	319.70	-2.37699E+05	9.5506
1350.0	38.361	1.79831E+05	321.15	-2.53721E+05	9.8168
1400.0	38.400	1.81750E+05	322.54	-2.69813E+05	10.067
1450.0	38.439	1.83671E+05	323.89	-2.85975E+05	10.302
1500.0	38.477	1.85593E+05	325.20	-3.02202E+05	10.523
1550.0	38.515	1.87518E+05	326.46	-3.18494E+05	10.733
1600.0	38.554	1.89445E+05	327.68	-3.34847E+05	10.931
1650.0	38.592	1.91374E+05	328.87	-3.51261E+05	11.120
1700.0	38.630	1.93304E+05	330.02	-3.67734E+05	11.299
1750.0	38.668	1.95237E+05	331.14	-3.84263E+05	11.469
1800.0	38.706	1.97171E+05	332.23	-4.00847E+05	11.632
1850.0	38.744	1.99107E+05	333.29	-4.17486E+05	11.787
1900.0	38.782	2.01045E+05	334.33	-4.34176E+05	11.936
1950.0	38.819	2.02985E+05	335.33	-4.50918E+05	12.078
2000.0	38.857	2.04927E+05	336.32	-4.67709E+05	12.215
2050.0	38.895	2.06871E+05	337.28	-4.84549E+05	12.346
2100.0	38.933	2.08817E+05	338.22	-5.01437E+05	12.472
2150.0	38.971	2.10764E+05	339.13	-5.18371E+05	12.594
2200.0	39.009	2.12714E+05	340.03	-5.35350E+05	12.710
2250.0	39.046	2.14665E+05	340.91	-5.52373E+05	12.823
2300.0	39.084	2.16618E+05	341.76	-5.69440E+05	12.932
2350.0	39.122	2.18574E+05	342.61	-5.86549E+05	13.037
2400.0	39.160	2.20531E+05	343.43	-6.03700E+05	13.139
2450.0	39.198	2.22490E+05	344.24	-6.20892E+05	13.237
2500.0	39.236	2.24450E+05	345.03	-6.38124E+05	13.333
2550.0	39.274	2.26413E+05	345.81	-6.55395E+05	13.425
2600.0	39.311	2.28378E+05	346.57	-6.72704E+05	13.514
2650.0	39.349	2.30344E+05	347.32	-6.90051E+05	13.601
2700.0	39.387	2.32313E+05	348.06	-7.07436E+05	13.686
2750.0	39.425	2.34283E+05	348.78	-7.24857E+05	13.768
2800.0	39.463	2.36255E+05	349.49	-7.42313E+05	13.848
2850.0	39.501	2.38229E+05	350.19	-7.59805E+05	13.925
2900.0	39.540	2.40205E+05	350.88	-7.77332E+05	14.001
2950.0	39.578	2.42183E+05	351.55	-7.94893E+05	14.075
3000.0	39.616	2.44163E+05	352.22	-8.12487E+05	14.146

AgNO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	93.204	-1.20499E+05	141.00	-1.62539E+05	28.475
300.00	93.554	-1.20326E+05	141.58	-1.62800E+05	28.345
350.00	103.01	-1.15412E+05	156.71	-1.70261E+05	25.409
400.00	112.47	-1.10025E+05	171.08	-1.78458E+05	23.304
433.00	118.71	-1.06211E+05	180.24	-1.84256E+05	22.227
433.00	118.29	-1.00412E+05	193.63	-1.84256E+05	22.227
450.00	121.50	-98374.	198.25	-1.87587E+05	21.774
483.00	127.74	-94261.	207.07	-1.94275E+05	21.010
483.00	128.03	-82546.	231.32	-1.94275E+05	21.010
500.00	128.03	-80370.	235.75	-1.98246E+05	20.710
550.00	128.03	-73968.	247.95	-2.10343E+05	19.976
600.00	128.03	-67567.	259.09	-2.23024E+05	19.415

AgO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.365	3.00600E+05	245.72	2.27339E+05	-39.828
300.00	35.392	3.00665E+05	245.94	2.26884E+05	-39.503
350.00	35.979	3.02451E+05	251.44	2.14446E+05	-32.004
400.00	36.371	3.04260E+05	256.27	2.01751E+05	-26.345
450.00	36.651	3.06086E+05	260.57	1.88828E+05	-21.918
500.00	36.859	3.07924E+05	264.45	1.75700E+05	-18.355
550.00	37.022	3.09771E+05	267.97	1.62389E+05	-15.422
600.00	37.154	3.11626E+05	271.20	1.48909E+05	-12.963
650.00	37.264	3.13486E+05	274.17	1.35273E+05	-10.870
700.00	37.358	3.15352E+05	276.94	1.21495E+05	-9.0658
750.00	37.440	3.17222E+05	279.52	1.07583E+05	-7.4925
800.00	37.513	3.19096E+05	281.94	93545.	-6.1077
850.00	37.579	3.20973E+05	284.21	79391.	-4.8787
900.00	37.640	3.22854E+05	286.36	65126.	-3.7797
950.00	37.697	3.24737E+05	288.40	50757.	-2.7907
1000.0	37.750	3.26623E+05	290.34	36288.	-1.8954
1050.0	37.800	3.28512E+05	292.18	21725.	-1.0807
1100.0	37.848	3.30403E+05	293.94	7071.4	-0.33578
1150.0	37.894	3.32297E+05	295.62	-7667.9	0.34828
1200.0	37.939	3.34193E+05	297.24	-22490.	0.97892
1250.0	37.982	3.36091E+05	298.78	-37390.	1.5624
1300.0	38.024	3.37991E+05	300.28	-52367.	2.1041
1350.0	38.066	3.39893E+05	301.71	-67417.	2.6085
1400.0	38.106	3.41797E+05	303.10	-82537.	3.0794
1450.0	38.146	3.43704E+05	304.43	-97726.	3.5204
1500.0	38.185	3.45612E+05	305.73	-1.12980E+05	3.9342
1550.0	38.224	3.47522E+05	306.98	-1.28298E+05	4.3235
1600.0	38.262	3.49434E+05	308.19	-1.43678E+05	4.6905
1650.0	38.300	3.51348E+05	309.37	-1.59117E+05	5.0371
1700.0	38.337	3.53264E+05	310.52	-1.74614E+05	5.3651
1750.0	38.374	3.55182E+05	311.63	-1.90168E+05	5.6761
1800.0	38.411	3.57102E+05	312.71	-2.05777E+05	5.9713
1850.0	38.448	3.59023E+05	313.76	-2.21439E+05	6.2521
1900.0	38.484	3.60946E+05	314.79	-2.37152E+05	6.5196
1950.0	38.521	3.62872E+05	315.79	-2.52917E+05	6.7747
2000.0	38.557	3.64799E+05	316.76	-2.68731E+05	7.0184
2050.0	38.593	3.66727E+05	317.72	-2.84593E+05	7.2513
2100.0	38.629	3.68658E+05	318.65	-3.00502E+05	7.4744
2150.0	38.665	3.70590E+05	319.56	-3.16457E+05	7.6882
2200.0	38.701	3.72524E+05	320.45	-3.32458E+05	7.8933
2250.0	38.737	3.74460E+05	321.32	-3.48502E+05	8.0904
2300.0	38.772	3.76398E+05	322.17	-3.64589E+05	8.2799
2350.0	38.808	3.78338E+05	323.00	-3.80718E+05	8.4622
2400.0	38.844	3.80279E+05	323.82	-3.96889E+05	8.6378
2450.0	38.879	3.82222E+05	324.62	-4.13100E+05	8.8072
2500.0	38.915	3.84167E+05	325.41	-4.29351E+05	8.9706
2550.0	38.950	3.86113E+05	326.18	-4.45641E+05	9.1283
2600.0	38.986	3.88062E+05	326.93	-4.61968E+05	9.2808
2650.0	39.021	3.90012E+05	327.68	-4.78334E+05	9.4283
2700.0	39.057	3.91964E+05	328.41	-4.94736E+05	9.5710
2750.0	39.092	3.93918E+05	329.12	-5.11174E+05	9.7092
2800.0	39.128	3.95873E+05	329.83	-5.27648E+05	9.8431
2850.0	39.163	3.97830E+05	330.52	-5.44157E+05	9.9730
2900.0	39.198	3.99789E+05	331.20	-5.60700E+05	10.099
2950.0	39.234	4.01750E+05	331.87	-5.77277E+05	10.221
3000.0	39.269	4.03713E+05	332.53	-5.93887E+05	10.340

Ag2O

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	65.810	-31130.	121.00	-67206.	11.774
300.00	65.952	-31008.	121.41	-67430.	11.740
350.00	69.364	-27622.	131.84	-73766.	11.009
400.00	72.222	-24081.	141.29	-80598.	10.525
450.00	74.757	-20405.	149.95	-87882.	10.201
500.00	77.092	-16608.	157.95	-95582.	9.9851
550.00	79.296	-12698.	165.40	-1.03668E+05	9.8453
600.00	81.411	-8680.4	172.39	-1.12114E+05	9.7602
650.00	83.463	-4558.3	178.99	-1.20900E+05	9.7154
700.00	85.469	-334.86	185.25	-1.30007E+05	9.7010
750.00	87.442	3988.1	191.21	-1.39420E+05	9.7098
800.00	89.390	8408.9	196.92	-1.49124E+05	9.7366
850.00	91.317	12927.	202.39	-1.59108E+05	9.7773
900.00	93.229	17540.	207.67	-1.69360E+05	9.8291
950.00	95.129	22249.	212.76	-1.79871E+05	9.8898
1000.0	97.019	27053.	217.69	-1.90633E+05	9.9574
1050.0	98.901	31951.	222.47	-2.01637E+05	10.031
1100.0	100.78	36943.	227.11	-2.12877E+05	10.108
1100.0	100.00	51943.	240.75	-2.12877E+05	10.108
1100.0	100.00	51943.	240.75	-2.12878E+05	10.108
1150.0	100.00	56943.	245.19	-2.25027E+05	10.221
1200.0	100.00	61943.	249.45	-2.37393E+05	10.333
1250.0	100.00	66943.	253.53	-2.49968E+05	10.445
1300.0	100.00	71943.	257.45	-2.62744E+05	10.557
1350.0	100.00	76943.	261.23	-2.75711E+05	10.668
1400.0	100.00	81943.	264.86	-2.88864E+05	10.777
1450.0	100.00	86943.	268.37	-3.02195E+05	10.886
1500.0	100.00	91943.	271.76	-3.15699E+05	10.993
1550.0	100.00	96943.	275.04	-3.29370E+05	11.099
1600.0	100.00	1.01943E+05	278.22	-3.43201E+05	11.204
1650.0	100.00	1.06943E+05	281.29	-3.57189E+05	11.307
1700.0	100.00	1.11943E+05	284.28	-3.71329E+05	11.409
1750.0	100.00	1.16943E+05	287.18	-3.85616E+05	11.510
1800.0	100.00	1.21943E+05	289.99	-4.00045E+05	11.609
1850.0	100.00	1.26943E+05	292.73	-4.14614E+05	11.706
1900.0	100.00	1.31943E+05	295.40	-4.29317E+05	11.802
1950.0	100.00	1.36943E+05	298.00	-4.44153E+05	11.897
2000.0	100.00	1.41943E+05	300.53	-4.59116E+05	11.991
2050.0	100.00	1.46943E+05	303.00	-4.74205E+05	12.083
2100.0	100.00	1.51943E+05	305.41	-4.89415E+05	12.173
2150.0	100.00	1.56943E+05	307.76	-5.04745E+05	12.263
2200.0	100.00	1.61943E+05	310.06	-5.20190E+05	12.351
2250.0	100.00	1.66943E+05	312.31	-5.35750E+05	12.437
2300.0	100.00	1.71943E+05	314.51	-5.51420E+05	12.523
2350.0	100.00	1.76943E+05	316.66	-5.67200E+05	12.607
2400.0	100.00	1.81943E+05	318.76	-5.83085E+05	12.690
2450.0	100.00	1.86943E+05	320.82	-5.99075E+05	12.772
2500.0	100.00	1.91943E+05	322.84	-6.15167E+05	12.853
2550.0	100.00	1.96943E+05	324.82	-6.31359E+05	12.933
2600.0	100.00	2.01943E+05	326.77	-6.47649E+05	13.011
2650.0	100.00	2.06943E+05	328.67	-6.64035E+05	13.089
2700.0	100.00	2.11943E+05	330.54	-6.80515E+05	13.165
2750.0	100.00	2.16943E+05	332.38	-6.97088E+05	13.240
2800.0	100.00	2.21943E+05	334.18	-7.13752E+05	13.315
2850.0	100.00	2.26943E+05	335.95	-7.30505E+05	13.388
2900.0	100.00	2.31943E+05	337.69	-7.47346E+05	13.461
2950.0	100.00	2.36943E+05	339.40	-7.64273E+05	13.532
3000.0	100.00	2.41943E+05	341.08	-7.81285E+05	13.603

Ag2O4S

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	131.45	-7.15464E+05	200.41	-7.75217E+05	135.81
300.00	131.67	-7.15221E+05	201.23	-7.75589E+05	135.04
350.00	137.51	-7.08491E+05	221.96	-7.86178E+05	117.33
400.00	143.34	-7.01470E+05	240.71	-7.97752E+05	104.17
450.00	149.18	-6.94157E+05	257.93	-8.10224E+05	94.046
500.00	155.02	-6.86552E+05	273.95	-8.23525E+05	86.031
550.00	160.85	-6.78655E+05	288.99	-8.37602E+05	79.547
600.00	166.69	-6.70466E+05	303.24	-8.52411E+05	74.207
650.00	172.53	-6.61986E+05	316.81	-8.67915E+05	69.745
700.00	178.36	-6.53214E+05	329.81	-8.84083E+05	65.969
703.15	178.73	-6.52651E+05	330.61	-8.85123E+05	65.751
703.15	178.73	-6.36961E+05	352.93	-8.85123E+05	65.751
750.00	184.20	-6.28460E+05	364.63	-9.01933E+05	62.815
800.00	190.04	-6.19104E+05	376.71	-9.20469E+05	60.099
850.00	195.87	-6.09456E+05	388.40	-9.39598E+05	57.739
900.00	201.71	-5.99516E+05	399.76	-9.59303E+05	55.675
933.15	205.58	-5.92766E+05	407.13	-9.72678E+05	54.446
933.15	205.02	-5.74774E+05	426.41	-9.72678E+05	54.446
950.00	205.02	-5.71320E+05	430.08	-9.79894E+05	53.877
1000.0	205.02	-5.61069E+05	440.59	-1.00166E+06	52.320
1050.0	205.02	-5.50818E+05	450.60	-1.02394E+06	50.937
1100.0	205.02	-5.40567E+05	460.13	-1.04671E+06	49.703
1150.0	205.02	-5.30317E+05	469.25	-1.06995E+06	48.597
1200.0	205.02	-5.20066E+05	477.97	-1.09363E+06	47.603

Ag2O4W

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	148.39	-9.24664E+05	205.02	-9.85790E+05	172.70
300.00	148.58	-9.24389E+05	205.93	-9.86170E+05	171.70
350.00	153.27	-9.16841E+05	229.20	-9.97060E+05	148.80
400.00	157.53	-9.09069E+05	249.95	-1.00905E+06	131.76
450.00	161.54	-9.01092E+05	268.73	-1.02202E+06	118.63
500.00	165.39	-8.92918E+05	285.95	-1.03589E+06	108.22

AgP2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	72.550	-44769.	87.864	-70965.	12.433
300.00	72.592	-44635.	88.313	-71128.	12.384
350.00	73.743	-40976.	99.589	-75832.	11.317
400.00	74.894	-37260.	109.51	-81065.	10.586
450.00	76.044	-33487.	118.40	-86766.	10.071
500.00	77.195	-29656.	126.47	-92891.	9.7040
550.00	78.345	-25767.	133.88	-99403.	9.4402
600.00	79.496	-21821.	140.75	-1.06270E+05	9.2514
650.00	80.647	-17818.	147.16	-1.13470E+05	9.1183
700.00	81.797	-13757.	153.18	-1.20980E+05	9.0274
750.00	82.948	-9638.0	158.86	-1.28782E+05	8.9689
800.00	84.098	-5461.8	164.25	-1.36861E+05	8.9359
850.00	85.249	-1228.2	169.38	-1.45202E+05	8.9228

AgP3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	103.91	-69036.	105.44	-1.00472E+05	17.602
300.00	103.97	-68844.	106.08	-1.00668E+05	17.527
350.00	105.54	-63606.	122.23	-1.06385E+05	15.877
400.00	107.11	-58290.	136.42	-1.12858E+05	14.737
450.00	108.68	-52895.	149.13	-1.20002E+05	13.929
500.00	110.25	-47422.	160.66	-1.27751E+05	13.346
550.00	111.82	-41870.	171.24	-1.36052E+05	12.921
600.00	113.39	-36240.	181.04	-1.44862E+05	12.611
650.00	114.96	-30531.	190.17	-1.54145E+05	12.387
700.00	116.52	-24744.	198.75	-1.63870E+05	12.228
750.00	118.09	-18879.	206.84	-1.74012E+05	12.119
800.00	119.66	-12935.	214.52	-1.84548E+05	12.049
850.00	121.23	-6912.7	221.82	-1.95457E+05	12.011
900.00	122.80	-811.86	228.79	-2.06724E+05	11.998

AgS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.983	3.93296E+05	261.36	3.15372E+05	-55.250
300.00	36.000	3.93363E+05	261.58	3.14888E+05	-54.826
350.00	36.365	3.95172E+05	267.16	3.01667E+05	-45.020
400.00	36.603	3.96997E+05	272.03	2.88184E+05	-37.632
450.00	36.766	3.98832E+05	276.35	2.74473E+05	-31.859
500.00	36.883	4.00673E+05	280.23	2.60556E+05	-27.219
550.00	36.971	4.02519E+05	283.75	2.46455E+05	-23.406
600.00	37.037	4.04370E+05	286.97	2.32186E+05	-20.213
650.00	37.089	4.06223E+05	289.94	2.17762E+05	-17.499
700.00	37.131	4.08078E+05	292.69	2.03196E+05	-15.162
750.00	37.165	4.09936E+05	295.25	1.88496E+05	-13.128
800.00	37.193	4.11795E+05	297.65	1.73673E+05	-11.339
850.00	37.216	4.13655E+05	299.91	1.58733E+05	-9.7543
900.00	37.236	4.15516E+05	302.04	1.43684E+05	-8.3390
950.00	37.253	4.17379E+05	304.05	1.28532E+05	-7.0670
1000.0	37.268	4.19242E+05	305.96	1.13281E+05	-5.9170
1050.0	37.281	4.21105E+05	307.78	97937.	-4.8720
1100.0	37.292	4.22970E+05	309.51	82505.	-3.9177
1150.0	37.302	4.24834E+05	311.17	66987.	-3.0426
1200.0	37.311	4.26700E+05	312.76	51389.	-2.2368
1250.0	37.319	4.28566E+05	314.28	35712.	-1.4923
1300.0	37.327	4.30432E+05	315.75	19961.	-0.80204
1350.0	37.333	4.32298E+05	317.16	4138.6	-0.16013
1400.0	37.339	4.34165E+05	318.51	-11753.	0.43851
1450.0	37.345	4.36032E+05	319.82	-27712.	0.99827
1500.0	37.350	4.37899E+05	321.09	-43735.	1.5229
1550.0	37.355	4.39767E+05	322.31	-59820.	2.0159
1600.0	37.360	4.41635E+05	323.50	-75966.	2.4800
1650.0	37.364	4.43503E+05	324.65	-92170.	2.9178
1700.0	37.368	4.45371E+05	325.77	-1.08430E+05	3.3316
1750.0	37.372	4.47240E+05	326.85	-1.24746E+05	3.7234
1800.0	37.375	4.49109E+05	327.90	-1.41115E+05	4.0949
1850.0	37.379	4.50977E+05	328.93	-1.57535E+05	4.4479
1900.0	37.382	4.52846E+05	329.92	-1.74007E+05	4.7837
1950.0	37.385	4.54716E+05	330.89	-1.90527E+05	5.1035
2000.0	37.388	4.56585E+05	331.84	-2.07096E+05	5.4086

Ag2S<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.936	3.90660E+05	317.26	2.96070E+05	-51.869
300.00	54.974	3.90762E+05	317.60	2.95483E+05	-51.447
350.00	55.793	3.93533E+05	326.14	2.79384E+05	-41.695
400.00	56.328	3.96336E+05	333.63	2.62886E+05	-34.329
450.00	56.698	3.99163E+05	340.28	2.46036E+05	-28.558
500.00	56.965	4.02005E+05	346.27	2.28869E+05	-23.909
550.00	57.164	4.04858E+05	351.71	2.11418E+05	-20.078
600.00	57.318	4.07720E+05	356.69	1.93706E+05	-16.863
650.00	57.439	4.10589E+05	361.28	1.75755E+05	-14.124
700.00	57.536	4.13464E+05	365.54	1.57583E+05	-11.759
750.00	57.616	4.16343E+05	369.52	1.39206E+05	-9.6949
800.00	57.682	4.19225E+05	373.24	1.20636E+05	-7.8765
850.00	57.738	4.22111E+05	376.74	1.01886E+05	-6.2610
900.00	57.786	4.24999E+05	380.04	82966.	-4.8151
950.00	57.827	4.27889E+05	383.16	63885.	-3.5126
1000.0	57.863	4.30781E+05	386.13	44652.	-2.3323
1050.0	57.894	4.33675E+05	388.95	25274.	-1.2573
1100.0	57.922	4.36571E+05	391.65	5758.9	-0.27346
1150.0	57.947	4.39467E+05	394.22	-13888.	0.63081
1200.0	57.968	4.42365E+05	396.69	-33662.	1.4652
1250.0	57.988	4.45264E+05	399.06	-53556.	2.2379
1300.0	58.006	4.48164E+05	401.33	-73566.	2.9558
1350.0	58.021	4.51065E+05	403.52	-93687.	3.6249
1400.0	58.036	4.53966E+05	405.63	-1.13916E+05	4.2502
1450.0	58.049	4.56868E+05	407.67	-1.34249E+05	4.8360
1500.0	58.060	4.59771E+05	409.64	-1.54682E+05	5.3864
1550.0	58.071	4.62674E+05	411.54	-1.75211E+05	5.9044
1600.0	58.080	4.65578E+05	413.38	-1.95835E+05	6.3932
1650.0	58.089	4.68482E+05	415.17	-2.16549E+05	6.8552
1700.0	58.096	4.71387E+05	416.90	-2.37351E+05	7.2927
1750.0	58.103	4.74292E+05	418.59	-2.58238E+05	7.7078
1800.0	58.110	4.77197E+05	420.23	-2.79209E+05	8.1022
1850.0	58.115	4.80103E+05	421.82	-3.00260E+05	8.4776
1900.0	58.120	4.83009E+05	423.37	-3.21390E+05	8.8354
1950.0	58.124	4.85915E+05	424.88	-3.42596E+05	9.1769
2000.0	58.128	4.88821E+05	426.35	-3.63877E+05	9.5033
2050.0	58.131	4.91728E+05	427.78	-3.85231E+05	9.8156
2100.0	58.133	4.94634E+05	429.19	-4.06655E+05	10.115
2150.0	58.135	4.97541E+05	430.55	-4.28149E+05	10.402
2200.0	58.137	5.00448E+05	431.89	-4.49710E+05	10.677
2250.0	58.138	5.03355E+05	433.20	-4.71337E+05	10.942
2300.0	58.138	5.06262E+05	434.47	-4.93029E+05	11.197
2350.0	58.138	5.09168E+05	435.72	-5.14784E+05	11.442
2400.0	58.138	5.12075E+05	436.95	-5.36601E+05	11.679
2450.0	58.137	5.14982E+05	438.15	-5.58479E+05	11.907
2500.0	58.136	5.17889E+05	439.32	-5.80415E+05	12.127
2550.0	58.140	5.20796E+05	440.47	-6.02410E+05	12.340
2600.0	58.143	5.23703E+05	441.60	-6.24462E+05	12.545
2650.0	58.146	5.26610E+05	442.71	-6.46570E+05	12.744
2700.0	58.150	5.29518E+05	443.80	-6.68733E+05	12.937
2750.0	58.153	5.32425E+05	444.86	-6.90950E+05	13.124
2800.0	58.157	5.35333E+05	445.91	-7.13219E+05	13.305
2850.0	58.160	5.38241E+05	446.94	-7.35540E+05	13.481
2900.0	58.164	5.41149E+05	447.95	-7.57913E+05	13.651
2950.0	58.167	5.44057E+05	448.95	-7.80335E+05	13.817
3000.0	58.170	5.46966E+05	449.92	-8.02807E+05	13.978

AgSe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.811	3.12587E+05	263.20	2.34114E+05	-41.015
300.00	36.827	3.12655E+05	263.43	2.33627E+05	-40.677
350.00	37.315	3.14508E+05	269.14	2.20309E+05	-32.879
400.00	37.837	3.16387E+05	274.16	2.06724E+05	-26.995
450.00	38.353	3.18292E+05	278.64	1.92902E+05	-22.391
500.00	38.843	3.20222E+05	282.71	1.78867E+05	-18.686
550.00	39.294	3.22175E+05	286.43	1.64637E+05	-15.636
600.00	39.699	3.24150E+05	289.87	1.50229E+05	-13.078
650.00	40.053	3.26144E+05	293.06	1.35654E+05	-10.901
700.00	40.354	3.28155E+05	296.04	1.20926E+05	-9.0234
750.00	40.599	3.30179E+05	298.83	1.06053E+05	-7.3860
800.00	40.787	3.32214E+05	301.46	91045.	-5.9445
850.00	40.918	3.34256E+05	303.94	75910.	-4.6647
900.00	40.989	3.36304E+05	306.28	60654.	-3.5202
950.00	41.001	3.38354E+05	308.50	45284.	-2.4898
1000.0	40.954	3.40403E+05	310.60	29806.	-1.5569
1050.0	40.921	3.42450E+05	312.59	14226.	-0.70769
1100.0	40.8733	3.444900E+05	314.5	-1451.7	6.8E-02
1150.0	40.815	3.46538E+05	316.31	-17222.	0.78224
1200.0	40.748	3.48577E+05	318.05	-33082.	1.4400
1250.0	40.673	3.50612E+05	319.71	-49026.	2.0486
1300.0	40.594	3.52644E+05	321.30	-65052.	2.6137
1350.0	40.511	3.54672E+05	322.83	-81155.	3.1400
1400.0	40.425	3.56695E+05	324.31	-97334.	3.6315
1450.0	40.338	3.58714E+05	325.72	-1.13585E+05	4.0917
1500.0	40.249	3.60729E+05	327.09	-1.29906E+05	4.5236
1550.0	40.160	3.62739E+05	328.41	-1.46293E+05	4.9299
1600.0	40.072	3.64745E+05	329.68	-1.62746E+05	5.3130
1650.0	39.983	3.66746E+05	330.91	-1.79261E+05	5.6748
1700.0	39.896	3.68743E+05	332.11	-1.95836E+05	6.0172
1750.0	39.810	3.70736E+05	333.26	-2.12471E+05	6.3417
1800.0	39.726	3.72724E+05	334.38	-2.29162E+05	6.6499
1850.0	39.644	3.74708E+05	335.47	-2.45908E+05	6.9430
1900.0	39.564	3.76689E+05	336.52	-2.62708E+05	7.2222
1950.0	39.486	3.78665E+05	337.55	-2.79560E+05	7.4884
2000.0	39.411	3.80637E+05	338.55	-2.96463E+05	7.7426
2050.0	39.338	3.82606E+05	339.52	-3.13415E+05	7.9857
2100.0	39.268	3.84571E+05	340.47	-3.30414E+05	8.2184
2150.0	39.201	3.86533E+05	341.39	-3.47461E+05	8.4414
2200.0	39.137	3.88491E+05	342.29	-3.64553E+05	8.6554
2250.0	39.077	3.90447E+05	343.17	-3.81690E+05	8.8609
2300.0	39.019	3.92399E+05	344.03	-3.98870E+05	9.0584
2350.0	38.964	3.94349E+05	344.87	-4.16093E+05	9.2485
2400.0	38.913	3.96296E+05	345.69	-4.33357E+05	9.4315
2450.0	38.865	3.98240E+05	346.49	-4.50661E+05	9.6080
2500.0	38.821	4.00182E+05	347.28	-4.68006E+05	9.7782
2550.0	38.780	4.02122E+05	348.04	-4.85389E+05	9.9425
2600.0	38.742	4.04060E+05	348.80	-5.02810E+05	10.101
2650.0	38.708	4.05996E+05	349.53	-5.20268E+05	10.255
2700.0	38.678	4.07931E+05	350.26	-5.37763E+05	10.403
2750.0	38.651	4.09864E+05	350.97	-5.55293E+05	10.547
2800.0	38.628	4.11796E+05	351.66	-5.72859E+05	10.687

Ag₂Se

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	81.512	-43514.	150.16	-88285.	15.467
300.00	81.613	-43363.	150.67	-88563.	15.420
350.00	84.358	-39213.	163.46	-96423.	14.390
400.00	87.103	-34927.	174.90	-1.04887E+05	13.696
406.00	87.432	-34403.	176.20	-1.05940E+05	13.630
406.00	84.356	-27374.	193.51	-1.05940E+05	13.630
450.00	84.774	-23653.	202.21	-1.14649E+05	13.308
500.00	85.249	-19403.	211.17	-1.24987E+05	13.057
550.00	85.724	-15128.	219.32	-1.35752E+05	12.892
600.00	86.199	-10830.	226.80	-1.46908E+05	12.789
650.00	86.674	-6508.6	233.71	-1.58422E+05	12.731
700.00	87.149	-2163.0	240.15	-1.70271E+05	12.705
750.00	87.623	2206.3	246.18	-1.82431E+05	12.705
800.00	88.098	6599.3	251.85	-1.94883E+05	12.724
850.00	88.573	11016.	257.21	-2.07611E+05	12.758
900.00	89.048	15457.	262.28	-2.20600E+05	12.803
950.00	89.523	19921.	267.11	-2.33835E+05	12.857
1000.0	89.998	24409.	271.72	-2.47307E+05	12.918

Ag₂Se<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.359	3.65012E+05	329.18	2.66867E+05	-46.753
300.00	56.381	3.65116E+05	329.53	2.66258E+05	-46.358
350.00	56.854	3.67948E+05	338.26	2.49558E+05	-37.243
400.00	57.162	3.70799E+05	345.87	2.32450E+05	-30.354
450.00	57.374	3.73663E+05	352.62	2.14985E+05	-24.954
500.00	57.526	3.76536E+05	358.67	1.97200E+05	-20.601
550.00	57.639	3.79415E+05	364.16	1.79127E+05	-17.012
600.00	57.725	3.82299E+05	369.18	1.60792E+05	-13.998
650.00	57.793	3.85187E+05	373.80	1.42216E+05	-11.428
700.00	57.847	3.88078E+05	378.09	1.23417E+05	-9.2093
750.00	57.891	3.90972E+05	382.08	1.04412E+05	-7.2717
800.00	57.927	3.93867E+05	385.82	85213.	-5.5637
850.00	57.957	3.96764E+05	389.33	65834.	-4.0456
900.00	57.982	3.99663E+05	392.64	46284.	-2.6862
950.00	58.004	4.02562E+05	395.78	26572.	-1.4610
1000.0	58.023	4.05463E+05	398.75	6708.5	-0.35041
1050.0	58.039	4.08365E+05	401.59	-13301.	0.66165
1100.0	58.053	4.11267E+05	404.29	-33448.	1.5883
1150.0	58.066	4.14170E+05	406.87	-53727.	2.4403
1200.0	58.077	4.17073E+05	409.34	-74133.	3.2268
1250.0	58.087	4.19978E+05	411.71	-94659.	3.9555
1300.0	58.096	4.22882E+05	413.99	-1.15302E+05	4.6328
1350.0	58.104	4.25787E+05	416.18	-1.36057E+05	5.2642
1400.0	58.111	4.28692E+05	418.29	-1.56919E+05	5.8546
1450.0	58.117	4.31598E+05	420.33	-1.77885E+05	6.4079
1500.0	58.123	4.34504E+05	422.30	-1.98951E+05	6.9279
1550.0	58.128	4.37410E+05	424.21	-2.20114E+05	7.4176
1600.0	58.133	4.40317E+05	426.06	-2.41371E+05	7.8798
1650.0	58.138	4.43224E+05	427.84	-2.62719E+05	8.3168
1700.0	58.142	4.46131E+05	429.58	-2.84155E+05	8.7308
1750.0	58.146	4.49038E+05	431.27	-3.05676E+05	9.1237
1800.0	58.149	4.51945E+05	432.90	-3.27280E+05	9.4972
1850.0	58.152	4.54853E+05	434.50	-3.48965E+05	9.8528
1900.0	58.155	4.57761E+05	436.05	-3.70729E+05	10.192
1950.0	58.158	4.60668E+05	437.56	-3.92570E+05	10.515
2000.0	58.160	4.63576E+05	439.03	-4.14484E+05	10.825
2050.0	58.162	4.66484E+05	440.47	-4.36472E+05	11.121
2100.0	58.164	4.69393E+05	441.87	-4.58530E+05	11.405
2150.0	58.166	4.72301E+05	443.24	-4.80658E+05	11.677
2200.0	58.168	4.75209E+05	444.57	-5.02854E+05	11.939
2250.0	58.169	4.78118E+05	445.88	-5.25115E+05	12.190
2300.0	58.171	4.81026E+05	447.16	-5.47441E+05	12.432
2350.0	58.172	4.83935E+05	448.41	-5.69831E+05	12.666
2400.0	58.173	4.86843E+05	449.64	-5.92282E+05	12.890
2450.0	58.174	4.89752E+05	450.83	-6.14794E+05	13.107
2500.0	58.175	4.92661E+05	452.01	-6.37365E+05	13.317
2550.0	58.175	4.95569E+05	453.16	-6.59994E+05	13.519
2600.0	58.176	4.98478E+05	454.29	-6.82681E+05	13.715
2650.0	58.177	5.01387E+05	455.40	-7.05423E+05	13.904
2700.0	58.177	5.04296E+05	456.49	-7.28220E+05	14.088
2750.0	58.177	5.07205E+05	457.55	-7.51072E+05	14.266
2800.0	58.178	5.10114E+05	458.60	-7.73976E+05	14.438
2850.0	58.178	5.13022E+05	459.63	-7.96932E+05	14.606
2900.0	58.178	5.15931E+05	460.64	-8.19939E+05	14.768
2950.0	58.178	5.18840E+05	461.64	-8.42996E+05	14.926
3000.0	58.177	5.21749E+05	462.62	-8.66102E+05	15.080

AgTe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.917	2.29037E+05	271.25	1.48165E+05	-25.957
300.00	36.923	2.29105E+05	271.47	1.47663E+05	-25.710
350.00	37.058	2.30955E+05	277.18	1.33943E+05	-19.989
400.00	37.167	2.32811E+05	282.13	1.19958E+05	-15.664
450.00	37.268	2.34672E+05	286.52	1.05739E+05	-12.274
500.00	37.370	2.36538E+05	290.45	91314.	-9.5392
550.00	37.477	2.38409E+05	294.01	76701.	-7.2842
600.00	37.593	2.40285E+05	297.28	61917.	-5.3902
650.00	37.720	2.42168E+05	300.29	46977.	-3.7750
700.00	37.859	2.44058E+05	303.09	31891.	-2.3797
750.00	38.012	2.45954E+05	305.71	16670.	-1.1610
800.00	38.178	2.47859E+05	308.17	1322.8	-8.6E-02
850.00	38.359	2.49772E+05	310.49	-14144.	0.86918
900.00	38.554	2.51695E+05	312.69	-29724.	1.7251
950.00	38.763	2.53628E+05	314.78	-45411.	2.4968
1000.0	38.988	2.55572E+05	316.77	-61200.	3.1967
1050.0	39.252	2.57528E+05	318.68	-77087.	3.8348
1100.0	39.490	2.59496E+05	320.51	-93067.	4.4193
1150.0	39.706	2.61476E+05	322.27	-1.09137E+05	4.9570
1200.0	39.903	2.63467E+05	323.97	-1.25293E+05	5.4537
1250.0	40.083	2.65466E+05	325.60	-1.41533E+05	5.9142
1300.0	40.248	2.67475E+05	327.17	-1.57852E+05	6.3424
1350.0	40.399	2.69491E+05	328.70	-1.74249E+05	6.7419
1400.0	40.538	2.71515E+05	330.17	-1.90721E+05	7.1157
1450.0	40.666	2.73545E+05	331.59	-2.07265E+05	7.4663
1500.0	40.782	2.75581E+05	332.97	-2.23880E+05	7.7960
1550.0	40.889	2.77623E+05	334.31	-2.40562E+05	8.1067
1600.0	40.987	2.79670E+05	335.61	-2.57310E+05	8.4001
1650.0	41.076	2.81721E+05	336.88	-2.74123E+05	8.6778
1700.0	41.156	2.83777E+05	338.10	-2.90997E+05	8.9410
1750.0	41.229	2.85837E+05	339.30	-3.07932E+05	9.1910
1800.0	41.293	2.87900E+05	340.46	-3.24926E+05	9.4289
1850.0	41.351	2.89966E+05	341.59	-3.41978E+05	9.6555
1900.0	41.401	2.92035E+05	342.69	-3.59085E+05	9.8717
1950.0	41.445	2.94106E+05	343.77	-3.76247E+05	10.078
2000.0	41.482	2.96179E+05	344.82	-3.93462E+05	10.276
2050.0	41.512	2.98254E+05	345.85	-4.10729E+05	10.465
2100.0	41.536	3.00330E+05	346.85	-4.28046E+05	10.647
2150.0	41.554	3.02408E+05	347.82	-4.45413E+05	10.821
2200.0	41.565	3.04486E+05	348.78	-4.62828E+05	10.989
2250.0	41.571	3.06564E+05	349.71	-4.80290E+05	11.150
2300.0	41.571	3.08643E+05	350.63	-4.97799E+05	11.305
2350.0	41.564	3.10721E+05	351.52	-5.15353E+05	11.455
2400.0	41.552	3.12799E+05	352.40	-5.32951E+05	11.599
2450.0	41.534	3.14876E+05	353.25	-5.50592E+05	11.738
2500.0	41.511	3.16952E+05	354.09	-5.68276E+05	11.873
2550.0	41.482	3.19027E+05	354.91	-5.86001E+05	12.003
2600.0	41.447	3.21100E+05	355.72	-6.03767E+05	12.130
2650.0	41.407	3.23172E+05	356.51	-6.21572E+05	12.252
2700.0	41.362	3.25241E+05	357.28	-6.39417E+05	12.370
2750.0	41.333	3.27308E+05	358.04	-6.57300E+05	12.485
2800.0	41.303	3.29374E+05	358.78	-6.75221E+05	12.596
2850.0	41.272	3.31439E+05	359.51	-6.93178E+05	12.704
2900.0	41.241	3.33502E+05	360.23	-7.11172E+05	12.809
2950.0	41.209	3.35563E+05	360.94	-7.29201E+05	12.911
3000.0	41.178	3.37622E+05	361.63	-7.47265E+05	13.011

Ag₂Te

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	84.985	-35982.	153.55	-81764.	14.324
300.00	85.150	-35825.	154.08	-82049.	14.286
350.00	89.817	-31452.	167.55	-90095.	13.446
400.00	94.770	-26839.	179.87	-98785.	12.900
421.00	96.904	-24826.	184.77	-1.02613E+05	12.731
421.00	85.997	-18228.	200.44	-1.02614E+05	12.731
450.00	85.789	-15737.	206.16	-1.08510E+05	12.595
500.00	85.429	-11457.	215.18	-1.19048E+05	12.437
550.00	84.015	-7194.1	223.31	-1.30014E+05	12.347
600.00	84.015	-2993.4	230.62	-1.41365E+05	12.307
650.00	84.015	1207.4	237.34	-1.53066E+05	12.300
700.00	84.015	5408.1	243.57	-1.65091E+05	12.319
750.00	84.015	9608.8	249.37	-1.77416E+05	12.356
800.00	84.015	13810.	254.79	-1.90021E+05	12.407

Ag₂Te<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.915	3.72334E+05	339.47	2.71120E+05	-47.498
300.00	56.931	3.72440E+05	339.83	2.70492E+05	-47.096
350.00	57.263	3.75295E+05	348.63	2.53275E+05	-37.798
400.00	57.480	3.78164E+05	356.29	2.35648E+05	-30.772
450.00	57.628	3.81042E+05	363.07	2.17660E+05	-25.265
500.00	57.735	3.83926E+05	369.15	1.99352E+05	-20.826
550.00	57.814	3.86815E+05	374.65	1.80755E+05	-17.166
600.00	57.874	3.89707E+05	379.69	1.61895E+05	-14.094
650.00	57.921	3.92602E+05	384.32	1.42793E+05	-11.475
700.00	57.958	3.95499E+05	388.62	1.23468E+05	-9.2131
750.00	57.989	3.98398E+05	392.61	1.03937E+05	-7.2386
800.00	58.014	4.01298E+05	396.36	84211.	-5.4983
850.00	58.035	4.04199E+05	399.88	64304.	-3.9516
900.00	58.052	4.07101E+05	403.19	44227.	-2.5668
950.00	58.067	4.10004E+05	406.33	23988.	-1.3189
1000.0	58.080	4.12908E+05	409.31	3596.4	-0.18785
1050.0	58.091	4.15812E+05	412.15	-16941.	0.84273
1100.0	58.101	4.18717E+05	414.85	-37616.	1.7862
1150.0	58.109	4.21622E+05	417.43	-58423.	2.6536
1200.0	58.117	4.24528E+05	419.90	-79357.	3.4542
1250.0	58.123	4.27434E+05	422.28	-1.00412E+05	4.1959
1300.0	58.129	4.30340E+05	424.56	-1.21583E+05	4.8852
1350.0	58.134	4.33247E+05	426.75	-1.42866E+05	5.5277
1400.0	58.139	4.36154E+05	428.86	-1.64257E+05	6.1284
1450.0	58.143	4.39061E+05	430.91	-1.85752E+05	6.6913
1500.0	58.147	4.41968E+05	432.88	-2.07347E+05	7.2203
1550.0	58.151	4.44875E+05	434.78	-2.29038E+05	7.7183
1600.0	58.154	4.47783E+05	436.63	-2.50824E+05	8.1883
1650.0	58.157	4.50691E+05	438.42	-2.72700E+05	8.6328
1700.0	58.160	4.53599E+05	440.15	-2.94665E+05	9.0537
1750.0	58.162	4.56507E+05	441.84	-3.16715E+05	9.4532
1800.0	58.164	4.59415E+05	443.48	-3.38848E+05	9.8329
1850.0	58.167	4.62323E+05	445.07	-3.61062E+05	10.194
1900.0	58.168	4.65232E+05	446.62	-3.83355E+05	10.539
1950.0	58.170	4.68140E+05	448.14	-4.05724E+05	10.868
2000.0	58.172	4.71049E+05	449.61	-4.28168E+05	11.182
2050.0	58.173	4.73957E+05	451.04	-4.50684E+05	11.483
2100.0	58.175	4.76866E+05	452.45	-4.73271E+05	11.772
2150.0	58.176	4.79775E+05	453.82	-4.95928E+05	12.048
2200.0	58.177	4.82684E+05	455.15	-5.18652E+05	12.314
2250.0	58.178	4.85592E+05	456.46	-5.41443E+05	12.569
2300.0	58.179	4.88501E+05	457.74	-5.64298E+05	12.815
2350.0	58.180	4.91410E+05	458.99	-5.87216E+05	13.052
2400.0	58.181	4.94319E+05	460.21	-6.10197E+05	13.280
2450.0	58.181	4.97228E+05	461.41	-6.33237E+05	13.500
2500.0	58.182	5.00137E+05	462.59	-6.56338E+05	13.713
2550.0	58.183	5.03047E+05	463.74	-6.79496E+05	13.919
2600.0	58.183	5.05956E+05	464.87	-7.02712E+05	14.117
2650.0	58.184	5.08865E+05	465.98	-7.25983E+05	14.310
2700.0	58.184	5.11774E+05	467.07	-7.49309E+05	14.496
2750.0	58.184	5.14683E+05	468.14	-7.72689E+05	14.676
2800.0	58.185	5.17593E+05	469.18	-7.96122E+05	14.851
2850.0	58.185	5.20502E+05	470.21	-8.19607E+05	15.021
2900.0	58.185	5.23411E+05	471.23	-8.43143E+05	15.186
2950.0	58.185	5.26320E+05	472.22	-8.66730E+05	15.346
3000.0	58.185	5.29230E+05	473.20	-8.90365E+05	15.502

A1

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.292	0.00000E+00	28.300	-8437.6	1.4782
300.00	24.325	44.971	28.450	-8490.1	1.4782
350.00	25.122	1281.9	32.262	-10010.	1.4939
400.00	25.791	2555.1	35.661	-11710.	1.5291
450.00	26.398	3860.0	38.735	-13571.	1.5752
500.00	26.976	5194.4	41.546	-15579.	1.6274
550.00	27.543	6557.4	44.144	-17722.	1.6830
600.00	28.113	7948.8	46.565	-19990.	1.7402
650.00	28.691	9368.8	48.838	-22376.	1.7981
700.00	29.284	10818.	50.986	-24872.	1.8559
750.00	29.977	12299.	53.029	-27472.	1.9133
800.00	30.836	13819.	54.990	-30173.	1.9701
850.00	31.863	15385.	56.889	-32970.	2.0261
900.00	33.058	17008.	58.743	-35861.	2.0813
933.47	33.953	18129.	59.967	-37848.	2.1178
933.47	31.748	28840.	71.441	-37848.	2.1178
950.00	31.748	29365.	71.998	-39034.	2.1462
1000.0	31.748	30952.	73.627	-42675.	2.2290
1050.0	31.748	32540.	75.176	-46395.	2.3080
1100.0	31.748	34127.	76.653	-50191.	2.3833
1150.0	31.748	35714.	78.064	-54059.	2.4554
1200.0	31.748	37302.	79.415	-57996.	2.5244
1250.0	31.748	38889.	80.711	-62000.	2.5908
1300.0	31.748	40477.	81.956	-66067.	2.6545
1350.0	31.748	42064.	83.154	-70195.	2.7159
1400.0	31.748	43651.	84.309	-74381.	2.7751
1450.0	31.748	45239.	85.423	-78625.	2.8323
1500.0	31.748	46826.	86.499	-82923.	2.8876
1550.0	31.748	48414.	87.541	-87274.	2.9410
1600.0	31.748	50001.	88.548	-91676.	2.9929
1650.0	31.748	51588.	89.525	-96128.	3.0431
1700.0	31.748	53176.	90.473	-1.00629E+05	3.0919
1750.0	31.748	54763.	91.393	-1.05175E+05	3.1392
1800.0	31.748	56351.	92.288	-1.09767E+05	3.1853
1850.0	31.748	57938.	93.158	-1.14404E+05	3.2301
1900.0	31.748	59526.	94.004	-1.19083E+05	3.2737
1950.0	31.748	61113.	94.829	-1.23804E+05	3.3162
2000.0	31.748	62700.	95.633	-1.28565E+05	3.3577
2050.0	31.748	64288.	96.417	-1.33367E+05	3.3981
2100.0	31.748	65875.	97.182	-1.38207E+05	3.4376
2150.0	31.748	67463.	97.929	-1.43085E+05	3.4762
2200.0	31.748	69050.	98.659	-1.47999E+05	3.5139
2250.0	31.748	70637.	99.372	-1.52950E+05	3.5507
2300.0	31.748	72225.	100.07	-1.57936E+05	3.5868
2350.0	31.748	73812.	100.75	-1.62957E+05	3.6220
2400.0	31.748	75400.	101.42	-1.68011E+05	3.6566
2450.0	31.748	76987.	102.08	-1.73099E+05	3.6904
2500.0	31.748	78574.	102.72	-1.78219E+05	3.7236
2550.0	31.748	80162.	103.35	-1.83370E+05	3.7561
2600.0	31.748	81749.	103.96	-1.88553E+05	3.7880
2650.0	31.748	83337.	104.57	-1.93766E+05	3.8193
2700.0	31.748	84924.	105.16	-1.99010E+05	3.8500
2750.0	31.748	86511.	105.74	-2.04282E+05	3.8801
2800.0	31.748	88099.	106.32	-2.09584E+05	3.9097
2850.0	31.748	89686.	106.88	-2.14914E+05	3.9388
2900.0	31.748	91274.	107.43	-2.20271E+05	3.9674
2950.0	31.748	92861.	107.97	-2.25656E+05	3.9955
3000.0	31.748	94449.	108.51	-2.31068E+05	4.0232

A12<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	38.492	5.09200E+05	243.01	4.36747E+05	-76.514
300.00	38.509	5.09271E+05	243.25	4.36297E+05	-75.964
350.00	38.859	5.11206E+05	249.21	4.23982E+05	-63.274
400.00	39.046	5.13154E+05	254.41	4.11389E+05	-53.720
450.00	39.146	5.15110E+05	259.02	3.98550E+05	-46.261
500.00	39.196	5.17068E+05	263.15	3.85494E+05	-40.271
550.00	39.219	5.19029E+05	266.88	3.72242E+05	-35.352
600.00	39.229	5.20990E+05	270.30	3.58811E+05	-31.237
650.00	39.234	5.22951E+05	273.44	3.45217E+05	-27.741
700.00	39.238	5.24913E+05	276.35	3.31472E+05	-24.734
750.00	39.247	5.26875E+05	279.05	3.17586E+05	-22.118
800.00	39.262	5.28838E+05	281.59	3.03569E+05	-19.821
850.00	39.286	5.30802E+05	283.97	2.89430E+05	-17.786
900.00	39.319	5.32767E+05	286.21	2.75175E+05	-15.970
950.00	39.345	5.34733E+05	288.34	2.60810E+05	-14.340
1000.0	39.372	5.36701E+05	290.36	2.46342E+05	-12.867
1050.0	39.400	5.38671E+05	292.28	2.31776E+05	-11.530
1100.0	39.427	5.40641E+05	294.11	2.17116E+05	-10.310
1150.0	39.456	5.42613E+05	295.87	2.02366E+05	-9.1915
1200.0	39.484	5.44587E+05	297.55	1.87530E+05	-8.1628
1250.0	39.513	5.46562E+05	299.16	1.72612E+05	-7.2129
1300.0	39.542	5.48538E+05	300.71	1.57615E+05	-6.3329
1350.0	39.572	5.50516E+05	302.20	1.42542E+05	-5.5152
1400.0	39.602	5.52495E+05	303.64	1.27396E+05	-4.7531
1450.0	39.632	5.54476E+05	305.03	1.12179E+05	-4.0410
1500.0	39.663	5.56459E+05	306.38	96894.	-3.3740
1550.0	39.693	5.58443E+05	307.68	81542.	-2.7479
1600.0	39.725	5.60428E+05	308.94	66126.	-2.1588
1650.0	39.756	5.62415E+05	310.16	50649.	-1.6034
1700.0	39.788	5.64404E+05	311.35	35111.	-1.0788
1750.0	39.820	5.66394E+05	312.50	19514.	-0.58246
1800.0	39.852	5.68386E+05	313.62	3861.2	-0.11205
1850.0	39.885	5.70379E+05	314.72	-11847.	0.33450
1900.0	39.918	5.72374E+05	315.78	-27610.	0.75903
1950.0	39.951	5.74371E+05	316.82	-43425.	1.1632
2000.0	39.985	5.76369E+05	317.83	-59291.	1.5485
2050.0	40.019	5.78369E+05	318.82	-75208.	1.9163
2100.0	40.053	5.80371E+05	319.78	-91173.	2.2677
2150.0	40.088	5.82375E+05	320.73	-1.07186E+05	2.6040
2200.0	40.122	5.84380E+05	321.65	-1.23245E+05	2.9261
2250.0	40.158	5.86387E+05	322.55	-1.39350E+05	3.2350
2300.0	40.193	5.88396E+05	323.43	-1.55500E+05	3.5314
2350.0	40.229	5.90406E+05	324.30	-1.71693E+05	3.8162
2400.0	40.264	5.92419E+05	325.14	-1.87929E+05	4.0901
2450.0	40.301	5.94433E+05	325.98	-2.04207E+05	4.3536
2500.0	40.337	5.96449E+05	326.79	-2.20527E+05	4.6075
2550.0	40.374	5.98466E+05	327.59	-2.36886E+05	4.8523
2600.0	40.411	6.00486E+05	328.37	-2.53285E+05	5.0884
2650.0	40.449	6.02508E+05	329.14	-2.69723E+05	5.3164
2700.0	40.486	6.04531E+05	329.90	-2.86199E+05	5.5367
2750.0	40.524	6.06556E+05	330.64	-3.02713E+05	5.7497
2800.0	40.562	6.08583E+05	331.37	-3.19263E+05	5.9558

AlAs<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.994	4.16300E+05	244.22	3.43487E+05	-60.176
300.00	34.029	4.16363E+05	244.43	3.43035E+05	-59.726
350.00	34.779	4.18084E+05	249.73	3.30678E+05	-49.350
400.00	35.291	4.19837E+05	254.41	3.18072E+05	-41.535
450.00	35.661	4.21611E+05	258.59	3.05245E+05	-35.431
500.00	35.942	4.23402E+05	262.36	2.92219E+05	-30.527
550.00	36.163	4.25204E+05	265.80	2.79014E+05	-26.498
600.00	36.341	4.27017E+05	268.96	2.65644E+05	-23.126
650.00	36.487	4.28838E+05	271.87	2.52122E+05	-20.260
700.00	36.609	4.30665E+05	274.58	2.38460E+05	-17.794
750.00	36.712	4.32499E+05	277.11	2.24668E+05	-15.647
800.00	36.799	4.34336E+05	279.48	2.10752E+05	-13.760
850.00	36.872	4.36178E+05	281.71	1.96722E+05	-12.089
900.00	36.934	4.38023E+05	283.82	1.82583E+05	-10.597
950.00	36.985	4.39871E+05	285.82	1.68341E+05	-9.2558
1000.0	37.026	4.41722E+05	287.72	1.54003E+05	-8.0441
1050.0	37.060	4.43574E+05	289.53	1.39571E+05	-6.9431
1100.0	37.083	4.45428E+05	291.25	1.25051E+05	-5.9380
1150.0	37.110	4.47282E+05	292.90	1.10447E+05	-5.0165
1200.0	37.135	4.49139E+05	294.48	95762.	-4.1683
1250.0	37.156	4.50996E+05	296.00	81000.	-3.3847
1300.0	37.175	4.52854E+05	297.45	66164.	-2.6584
1350.0	37.192	4.54713E+05	298.86	51256.	-1.9832
1400.0	37.208	4.56573E+05	300.21	36279.	-1.3535
1450.0	37.221	4.58434E+05	301.52	21235.	-0.76496
1500.0	37.234	4.60295E+05	302.78	6127.9	-0.21339
1550.0	37.245	4.62157E+05	304.00	-9041.7	0.30470
1600.0	37.255	4.64020E+05	305.18	-24271.	0.79236
1650.0	37.265	4.65883E+05	306.33	-39559.	1.2523
1700.0	37.273	4.67746E+05	307.44	-54904.	1.6869
1750.0	37.281	4.69610E+05	308.52	-70303.	2.0984
1800.0	37.289	4.71475E+05	309.57	-85755.	2.4885
1850.0	37.295	4.73339E+05	310.59	-1.01260E+05	2.8590
1900.0	37.301	4.75204E+05	311.59	-1.16814E+05	3.2114
1950.0	37.307	4.77069E+05	312.56	-1.32418E+05	3.5470
2000.0	37.312	4.78935E+05	313.50	-1.48070E+05	3.8671
2050.0	37.317	4.80800E+05	314.42	-1.63768E+05	4.1728
2100.0	37.322	4.82666E+05	315.32	-1.79512E+05	4.4650
2150.0	37.326	4.84533E+05	316.20	-1.95300E+05	4.7447
2200.0	37.330	4.86399E+05	317.06	-2.11131E+05	5.0128
2250.0	37.334	4.88266E+05	317.90	-2.27005E+05	5.2699
2300.0	37.337	4.90132E+05	318.72	-2.42921E+05	5.5168
2350.0	37.340	4.91999E+05	319.52	-2.58877E+05	5.7540
2400.0	37.343	4.93866E+05	320.31	-2.74873E+05	5.9823
2450.0	37.346	4.95734E+05	321.08	-2.90908E+05	6.2021
2500.0	37.349	4.97601E+05	321.83	-3.06980E+05	6.4138

AlAsO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	108.62	-1.33410E+06	104.60	-1.36529E+06	239.19
300.00	108.90	-1.33390E+06	105.27	-1.36548E+06	237.75
350.00	115.31	-1.32829E+06	122.57	-1.37118E+06	204.63
400.00	120.22	-1.32239E+06	138.30	-1.37771E+06	179.91
450.00	124.25	-1.31628E+06	152.70	-1.38499E+06	160.76
500.00	127.74	-1.30998E+06	165.97	-1.39296E+06	145.52
550.00	130.87	-1.30351E+06	178.29	-1.40157E+06	133.11
600.00	133.77	-1.29689E+06	189.81	-1.41078E+06	122.82
650.00	136.49	-1.29014E+06	200.62	-1.42054E+06	114.15
700.00	139.09	-1.28325E+06	210.83	-1.43083E+06	106.77
750.00	141.60	-1.27623E+06	220.52	-1.44162E+06	100.40
800.00	144.04	-1.26909E+06	229.73	-1.45287E+06	94.861
850.00	146.42	-1.26183E+06	238.54	-1.46458E+06	90.000
900.00	148.76	-1.25445E+06	246.97	-1.47672E+06	85.705
950.00	151.07	-1.24695E+06	255.08	-1.48927E+06	81.884
1000.0	153.36	-1.23934E+06	262.89	-1.50222E+06	78.466
1050.0	155.62	-1.23162E+06	270.42	-1.51556E+06	75.393
1100.0	157.86	-1.22378E+06	277.71	-1.52926E+06	72.617
1150.0	160.09	-1.21583E+06	284.78	-1.54333E+06	70.098
1200.0	162.30	-1.20777E+06	291.64	-1.55774E+06	67.805

AlB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	43.644	-66944.	34.727	-77298.	13.542
300.00	43.892	-66863.	34.998	-77362.	13.470
350.00	49.482	-64521.	42.208	-79294.	11.834
400.00	53.613	-61939.	49.097	-81578.	10.653
450.00	56.895	-59173.	55.608	-84197.	9.7731
500.00	59.651	-56258.	61.749	-87132.	9.1024
550.00	62.063	-53214.	67.549	-90366.	8.5820
600.00	64.241	-50056.	73.044	-93882.	8.1730
650.00	66.253	-46793.	78.267	-97666.	7.8483
700.00	68.146	-43432.	83.247	-1.01705E+05	7.5891
750.00	69.950	-39980.	88.010	-1.05987E+05	7.3814
800.00	71.686	-36438.	92.580	-1.10503E+05	7.2149
850.00	73.371	-32812.	96.977	-1.15242E+05	7.0817
900.00	75.015	-29102.	101.22	-1.20198E+05	6.9759
950.00	76.626	-25311.	105.32	-1.25362E+05	6.8927
1000.0	78.212	-21440.	109.29	-1.30727E+05	6.8283
1050.0	79.776	-17490.	113.14	-1.36288E+05	6.7798
1100.0	81.322	-13463.	116.89	-1.42040E+05	6.7447
1150.0	82.854	-9358.0	120.54	-1.47976E+05	6.7211
1200.0	84.374	-5177.3	124.10	-1.54092E+05	6.7073
1250.0	85.884	-920.77	127.57	-1.60384E+05	6.7019
1300.0	87.385	3411.0	130.97	-1.66848E+05	6.7038

ALB12

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	149.58	-2.00832E+05	118.83	-2.36260E+05	41.391
300.00	150.97	-2.00554E+05	119.76	-2.36481E+05	41.174
350.00	181.89	-1.92184E+05	145.50	-2.43109E+05	36.281
400.00	203.97	-1.82510E+05	171.30	-2.51031E+05	32.780
450.00	220.92	-1.71872E+05	196.34	-2.60226E+05	30.205
500.00	234.68	-1.60471E+05	220.35	-2.70648E+05	28.274
550.00	246.36	-1.48438E+05	243.28	-2.82243E+05	26.805
600.00	256.62	-1.35859E+05	265.17	-2.94959E+05	25.678
650.00	265.88	-1.22793E+05	286.08	-3.08744E+05	24.810
700.00	274.41	-1.09283E+05	306.10	-3.23551E+05	24.143
750.00	282.41	-95360.	325.31	-3.39340E+05	23.633
800.00	290.00	-81048.	343.78	-3.56070E+05	23.248
850.00	297.28	-66365.	361.58	-3.73706E+05	22.965
900.00	304.31	-51325.	378.77	-3.92217E+05	22.763
950.00	311.14	-35938.	395.41	-4.11574E+05	22.629
1000.0	317.82	-20213.	411.54	-4.31750E+05	22.552
1050.0	324.36	-4158.1	427.20	-4.52720E+05	22.521
1100.0	330.80	12221.	442.44	-4.74463E+05	22.530
1150.0	337.16	28921.	457.29	-4.96957E+05	22.572
1200.0	343.44	45936.	471.77	-5.20185E+05	22.642
1250.0	349.65	63263.	485.91	-5.44128E+05	22.737
1300.0	355.82	80901.	499.75	-5.68771E+05	22.853
1350.0	361.94	98845.	513.29	-5.94098E+05	22.986
1400.0	368.02	1.17094E+05	526.56	-6.20096E+05	23.135
1450.0	374.07	1.35646E+05	539.58	-6.46751E+05	23.298
1500.0	380.09	1.54500E+05	552.37	-6.74050E+05	23.472
1550.0	386.08	1.73655E+05	564.93	-7.01984E+05	23.656
1600.0	392.05	1.93108E+05	577.28	-7.30540E+05	23.849
1650.0	398.01	2.12860E+05	589.44	-7.59708E+05	24.050
1700.0	403.94	2.32908E+05	601.40	-7.89480E+05	24.257
1750.0	409.86	2.53254E+05	613.20	-8.19846E+05	24.470
1800.0	415.77	2.73894E+05	624.83	-8.50797E+05	24.689
1850.0	421.66	2.94830E+05	636.30	-8.82326E+05	24.912
1900.0	427.54	3.16060E+05	647.62	-9.14425E+05	25.139
1950.0	433.41	3.37584E+05	658.81	-9.47086E+05	25.369
2000.0	439.28	3.59401E+05	669.85	-9.80303E+05	25.602
2050.0	445.13	3.81512E+05	680.77	-1.01407E+06	25.838
2100.0	450.98	4.03915E+05	691.57	-1.04838E+06	26.076
2150.0	456.82	4.26610E+05	702.25	-1.08322E+06	26.316
2200.0	462.66	4.49597E+05	712.82	-1.11860E+06	26.558
2250.0	468.49	4.72876E+05	723.28	-1.15450E+06	26.802
2300.0	474.32	4.96446E+05	733.64	-1.19093E+06	27.046
2350.0	480.14	5.20307E+05	743.90	-1.22787E+06	27.292
2400.0	485.95	5.44460E+05	754.07	-1.26532E+06	27.538

AlBO2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.844	-5.41410E+05	269.64	-6.21804E+05	108.93
300.00	52.998	-5.41312E+05	269.97	-6.22303E+05	108.35
350.00	56.714	-5.38566E+05	278.43	-6.36016E+05	94.918
400.00	59.784	-5.35651E+05	286.21	-6.50134E+05	84.897
450.00	62.389	-5.32595E+05	293.40	-6.64627E+05	77.146
500.00	64.623	-5.29418E+05	300.10	-6.79467E+05	70.982
550.00	66.540	-5.26138E+05	306.35	-6.94629E+05	65.969
600.00	68.174	-5.22769E+05	312.21	-7.10095E+05	61.818
650.00	69.632	-5.19323E+05	317.73	-7.25845E+05	58.328
700.00	70.883	-5.15809E+05	322.93	-7.41862E+05	55.357
750.00	71.972	-5.12237E+05	327.86	-7.58133E+05	52.800
800.00	72.931	-5.08614E+05	332.54	-7.74644E+05	50.578
850.00	73.783	-5.04946E+05	336.98	-7.91383E+05	48.631
900.00	74.544	-5.01237E+05	341.22	-8.08339E+05	46.914
950.00	75.229	-4.97493E+05	345.27	-8.25502E+05	45.388
1000.0	75.845	-4.93716E+05	349.15	-8.42864E+05	44.026
1050.0	76.400	-4.89909E+05	352.86	-8.60414E+05	42.802
1100.0	76.899	-4.86077E+05	356.43	-8.78147E+05	41.699
1150.0	77.348	-4.82220E+05	359.86	-8.96055E+05	40.699
1200.0	77.749	-4.78343E+05	363.16	-9.14131E+05	39.790
1250.0	78.106	-4.74446E+05	366.34	-9.32369E+05	38.961
1300.0	78.421	-4.70533E+05	369.41	-9.50763E+05	38.201
1350.0	78.736	-4.66604E+05	372.37	-9.69308E+05	37.504
1400.0	79.020	-4.62660E+05	375.24	-9.87998E+05	36.862
1450.0	79.276	-4.58702E+05	378.02	-1.00683E+06	36.269
1500.0	79.507	-4.54733E+05	380.71	-1.02580E+06	35.721
1550.0	79.718	-4.50752E+05	383.32	-1.04490E+06	35.212
1600.0	79.909	-4.46761E+05	385.86	-1.06413E+06	34.739
1650.0	80.085	-4.42761E+05	388.32	-1.08348E+06	34.299
1700.0	80.245	-4.38753E+05	390.71	-1.10296E+06	33.889
1750.0	80.393	-4.34737E+05	393.04	-1.12255E+06	33.506
1800.0	80.530	-4.30714E+05	395.31	-1.14226E+06	33.147
1850.0	80.656	-4.26684E+05	397.51	-1.16208E+06	32.811
1900.0	80.773	-4.22648E+05	399.67	-1.18201E+06	32.495
1950.0	80.881	-4.18607E+05	401.77	-1.20205E+06	32.198
2000.0	80.983	-4.14560E+05	403.81	-1.22219E+06	31.920
2050.0	81.077	-4.10509E+05	405.82	-1.24243E+06	31.657
2100.0	81.165	-4.06453E+05	407.77	-1.26277E+06	31.409
2150.0	81.248	-4.02392E+05	409.68	-1.28321E+06	31.175
2200.0	81.325	-3.98328E+05	411.55	-1.30374E+06	30.954
2250.0	81.398	-3.94260E+05	413.38	-1.32436E+06	30.745
2300.0	81.467	-3.90188E+05	415.17	-1.34507E+06	30.547
2350.0	81.531	-3.86113E+05	416.92	-1.36588E+06	30.359
2400.0	81.592	-3.82035E+05	418.64	-1.38677E+06	30.181
2450.0	81.650	-3.77954E+05	420.32	-1.40774E+06	30.013
2500.0	81.705	-3.73870E+05	421.97	-1.42880E+06	29.852
2550.0	81.756	-3.69784E+05	423.59	-1.44994E+06	29.700
2600.0	81.806	-3.65695E+05	425.18	-1.47116E+06	29.555
2650.0	81.852	-3.61603E+05	426.74	-1.49245E+06	29.417
2700.0	81.897	-3.57509E+05	428.27	-1.51383E+06	29.286
2750.0	81.939	-3.53413E+05	429.77	-1.53528E+06	29.161
2800.0	81.979	-3.49316E+05	431.25	-1.55681E+06	29.042
2850.0	82.018	-3.45216E+05	432.70	-1.57840E+06	28.928
2900.0	82.054	-3.41114E+05	434.12	-1.60008E+06	28.820
2950.0	82.089	-3.37010E+05	435.53	-1.62182E+06	28.716
3000.0	82.123	-3.32905E+05	436.91	-1.64363E+06	28.617

Al4B2O9

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	222.64	-4.68830E+06	156.06	-4.73483E+06	829.50
300.00	223.83	-4.68788E+06	157.44	-4.73512E+06	824.44
350.00	250.22	-4.67599E+06	194.05	-4.74391E+06	707.97
400.00	269.26	-4.66298E+06	228.77	-4.75449E+06	620.86
450.00	284.02	-4.64914E+06	261.37	-4.76675E+06	553.30
500.00	296.12	-4.63463E+06	291.94	-4.78059E+06	499.41
550.00	306.49	-4.61955E+06	320.66	-4.79592E+06	455.47
600.00	315.67	-4.60400E+06	347.73	-4.81263E+06	418.97
650.00	324.02	-4.58800E+06	373.33	-4.83066E+06	388.19
700.00	331.77	-4.57160E+06	397.63	-4.84994E+06	361.90
750.00	339.07	-4.55483E+06	420.77	-4.87041E+06	339.20
800.00	346.03	-4.53770E+06	442.88	-4.89200E+06	319.41
850.00	352.73	-4.52023E+06	464.06	-4.91468E+06	302.01
900.00	359.22	-4.50243E+06	484.40	-4.93840E+06	286.61
950.00	365.55	-4.48431E+06	504.00	-4.96311E+06	272.88
1000.0	371.75	-4.46588E+06	522.90	-4.98878E+06	260.58
1050.0	377.84	-4.44714E+06	541.19	-5.01539E+06	249.50
1100.0	383.84	-4.42810E+06	558.91	-5.04289E+06	239.46
1150.0	389.77	-4.40876E+06	576.10	-5.07127E+06	230.34
1200.0	395.64	-4.38912E+06	592.81	-5.10050E+06	222.01
1250.0	401.45	-4.36919E+06	609.08	-5.13054E+06	214.39
1300.0	407.22	-4.34898E+06	624.94	-5.16140E+06	207.38

A118B4033

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	823.17	-1.77255E+07	653.96	-1.79205E+07	3139.5
300.00	828.09	-1.77240E+07	659.07	-1.79217E+07	3120.4
350.00	938.01	-1.76797E+07	795.49	-1.79581E+07	2680.0
400.00	1017.2	-1.76307E+07	926.17	-1.80012E+07	2350.7
450.00	1078.2	-1.75782E+07	1049.6	-1.80506E+07	2095.2
500.00	1127.5	-1.75231E+07	1165.9	-1.81060E+07	1891.5
550.00	1168.9	-1.74656E+07	1275.3	-1.81671E+07	1725.3
600.00	1204.7	-1.74063E+07	1378.6	-1.82334E+07	1587.3
650.00	1236.2	-1.73452E+07	1476.3	-1.83048E+07	1471.0
700.00	1264.3	-1.72827E+07	1569.0	-1.83810E+07	1371.6
750.00	1289.8	-1.72188E+07	1657.1	-1.84616E+07	1285.8
800.00	1312.9	-1.71538E+07	1741.1	-1.85466E+07	1210.9
850.00	1334.2	-1.70876E+07	1821.3	-1.86357E+07	1145.2
900.00	1353.7	-1.70204E+07	1898.1	-1.87287E+07	1087.0
950.00	1371.7	-1.69522E+07	1971.8	-1.88255E+07	1035.1
1000.0	1388.3	-1.68832E+07	2042.6	-1.89258E+07	988.56
1050.0	1403.5	-1.68134E+07	2110.7	-1.90297E+07	946.65
1100.0	1417.5	-1.67429E+07	2176.3	-1.91369E+07	908.71
1150.0	1430.4	-1.66717E+07	2239.6	-1.92473E+07	874.22
1200.0	1442.1	-1.65999E+07	2300.7	-1.93608E+07	842.73
1250.0	1452.7	-1.65275E+07	2359.8	-1.94773E+07	813.89
1300.0	1462.2	-1.64546E+07	2417.0	-1.95967E+07	787.39
1350.0	1470.7	-1.63813E+07	2472.3	-1.97190E+07	762.95
1400.0	1478.2	-1.63076E+07	2526.0	-1.98439E+07	740.37
1450.0	1484.7	-1.62335E+07	2578.0	-1.99715E+07	719.43
1500.0	1490.2	-1.61591E+07	2628.4	-2.01017E+07	699.99
1550.0	1494.8	-1.60845E+07	2677.3	-2.02344E+07	681.88
1600.0	1498.4	-1.60097E+07	2724.8	-2.03694E+07	664.98

Al2BaO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	125.07	-2.32756E+06	148.53	-2.37184E+06	415.53
300.00	125.62	-2.32733E+06	149.31	-2.37212E+06	413.01
350.00	137.59	-2.32073E+06	169.64	-2.38010E+06	355.20
400.00	145.74	-2.31363E+06	188.57	-2.38906E+06	311.97
450.00	151.68	-2.30619E+06	206.10	-2.39893E+06	278.45
500.00	156.24	-2.29849E+06	222.32	-2.40965E+06	251.73
550.00	159.91	-2.29058E+06	237.39	-2.42115E+06	229.94
600.00	162.96	-2.28251E+06	251.44	-2.43337E+06	211.84
650.00	165.58	-2.27429E+06	264.59	-2.44627E+06	196.58
700.00	167.89	-2.26595E+06	276.95	-2.45982E+06	183.55
750.00	169.96	-2.25751E+06	288.60	-2.47396E+06	172.30
800.00	171.86	-2.24896E+06	299.63	-2.48867E+06	162.49
850.00	173.63	-2.24032E+06	310.11	-2.50391E+06	153.87
900.00	175.28	-2.23160E+06	320.08	-2.51967E+06	146.23
950.00	176.86	-2.22279E+06	329.60	-2.53591E+06	139.43
1000.0	178.36	-2.21391E+06	338.71	-2.55262E+06	133.33
1050.0	179.81	-2.20496E+06	347.45	-2.56978E+06	127.84
1100.0	181.21	-2.19593E+06	355.84	-2.58736E+06	122.86
1150.0	182.58	-2.18684E+06	363.93	-2.60536E+06	118.34
1200.0	183.91	-2.17768E+06	371.73	-2.62375E+06	114.21
1250.0	185.22	-2.16845E+06	379.26	-2.64252E+06	110.42
1300.0	186.51	-2.15915E+06	386.55	-2.66167E+06	106.94
1350.0	187.77	-2.14980E+06	393.61	-2.68118E+06	103.74
1400.0	189.02	-2.14038E+06	400.47	-2.70103E+06	100.77
1450.0	190.25	-2.13089E+06	407.12	-2.72122E+06	98.026
1500.0	191.48	-2.12135E+06	413.59	-2.74174E+06	95.473
1550.0	192.69	-2.11175E+06	419.89	-2.76258E+06	93.096
1600.0	193.89	-2.10208E+06	426.03	-2.78372E+06	90.877
1650.0	195.08	-2.09236E+06	432.01	-2.80518E+06	88.802
1700.0	196.26	-2.08258E+06	437.85	-2.82692E+06	86.859
1750.0	197.44	-2.07273E+06	443.56	-2.84896E+06	85.035
1800.0	198.62	-2.06283E+06	449.14	-2.87128E+06	83.320
1850.0	199.78	-2.05287E+06	454.59	-2.89387E+06	81.706
1900.0	200.95	-2.04285E+06	459.94	-2.91673E+06	80.185
1950.0	202.10	-2.03278E+06	465.17	-2.93986E+06	78.748
2000.0	203.26	-2.02264E+06	470.30	-2.96325E+06	77.390

Al2Ba3O6

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	215.60	-3.52251E+06	301.25	-3.61233E+06	632.85
300.00	216.40	-3.52211E+06	302.58	-3.61289E+06	629.04
350.00	233.69	-3.51083E+06	337.33	-3.62889E+06	541.57
400.00	245.46	-3.49883E+06	369.35	-3.64657E+06	476.18
450.00	254.01	-3.48633E+06	398.78	-3.66579E+06	425.50
500.00	260.56	-3.47346E+06	425.90	-3.68641E+06	385.11
550.00	265.82	-3.46030E+06	450.99	-3.70834E+06	352.18
600.00	270.18	-3.44690E+06	474.31	-3.73148E+06	324.85
650.00	273.92	-3.43329E+06	496.08	-3.75575E+06	301.81
700.00	277.20	-3.41951E+06	516.51	-3.78107E+06	282.14
750.00	280.15	-3.40558E+06	535.73	-3.80738E+06	265.16
800.00	282.84	-3.39150E+06	553.90	-3.83462E+06	250.37
850.00	285.34	-3.37730E+06	571.12	-3.86275E+06	237.37
900.00	287.68	-3.36297E+06	587.50	-3.89172E+06	225.86
950.00	289.89	-3.34853E+06	603.11	-3.92149E+06	215.61
1000.0	292.01	-3.33398E+06	618.04	-3.95202E+06	206.43
1050.0	294.05	-3.31933E+06	632.33	-3.98328E+06	198.15
1100.0	296.02	-3.30458E+06	646.06	-4.01525E+06	190.66
1150.0	297.94	-3.28973E+06	659.26	-4.04788E+06	183.86
1200.0	299.81	-3.27479E+06	671.98	-4.08116E+06	177.64
1250.0	301.65	-3.25975E+06	684.26	-4.11507E+06	171.96
1300.0	303.45	-3.24462E+06	696.12	-4.14958E+06	166.73
1350.0	305.22	-3.22941E+06	707.61	-4.18468E+06	161.91
1400.0	306.96	-3.21410E+06	718.74	-4.22034E+06	157.46
1450.0	308.69	-3.19871E+06	729.54	-4.25655E+06	153.33
1500.0	310.40	-3.18323E+06	740.04	-4.29329E+06	149.50
1550.0	312.09	-3.16767E+06	750.24	-4.33054E+06	145.93
1600.0	313.77	-3.15202E+06	760.18	-4.36831E+06	142.61
1650.0	315.44	-3.13629E+06	769.86	-4.40656E+06	139.50
1700.0	317.09	-3.12048E+06	779.30	-4.44529E+06	136.58
1750.0	318.74	-3.10458E+06	788.51	-4.48448E+06	133.85
1800.0	320.38	-3.08861E+06	797.52	-4.52414E+06	131.28
1850.0	322.01	-3.07255E+06	806.32	-4.56423E+06	128.87
1900.0	323.63	-3.05641E+06	814.93	-4.60476E+06	126.59
1950.0	325.25	-3.04018E+06	823.35	-4.64572E+06	124.44
2000.0	326.86	-3.02388E+06	831.61	-4.68710E+06	122.41

Al₂BeO₄

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	105.37	-2.30120E+06	66.291	-2.32096E+06	406.61
300.00	105.96	-2.30100E+06	66.945	-2.32109E+06	404.13
350.00	119.83	-2.29535E+06	84.366	-2.32487E+06	346.96
400.00	130.60	-2.28907E+06	101.10	-2.32951E+06	304.20
450.00	138.87	-2.28233E+06	116.98	-2.33497E+06	271.03
500.00	144.95	-2.27522E+06	131.95	-2.34120E+06	244.58
550.00	150.41	-2.26783E+06	146.03	-2.34815E+06	223.00
600.00	154.94	-2.26020E+06	159.31	-2.35579E+06	205.08
650.00	158.77	-2.25235E+06	171.87	-2.36407E+06	189.97
700.00	162.04	-2.24433E+06	183.76	-2.37296E+06	177.07
750.00	164.85	-2.23616E+06	195.04	-2.38243E+06	165.92
800.00	167.28	-2.22785E+06	205.76	-2.39246E+06	156.21
850.00	169.38	-2.21943E+06	215.96	-2.40300E+06	147.67
900.00	171.17	-2.21092E+06	225.69	-2.41404E+06	140.10
950.00	172.76	-2.20232E+06	234.99	-2.42556E+06	133.36
1000.0	174.23	-2.19364E+06	243.89	-2.43754E+06	127.32
1050.0	175.62	-2.18490E+06	252.43	-2.44995E+06	121.88
1100.0	176.94	-2.17608E+06	260.63	-2.46277E+06	116.94
1150.0	178.23	-2.16720E+06	268.52	-2.47600E+06	112.46
1200.0	179.49	-2.15826E+06	276.13	-2.48962E+06	108.37
1250.0	180.76	-2.14926E+06	283.49	-2.50361E+06	104.62
1300.0	182.03	-2.14019E+06	290.60	-2.51797E+06	101.17
1350.0	183.32	-2.13105E+06	297.49	-2.53267E+06	97.992
1400.0	184.64	-2.12185E+06	304.18	-2.54771E+06	95.054
1450.0	185.99	-2.11259E+06	310.69	-2.56308E+06	92.330
1500.0	187.38	-2.10325E+06	317.02	-2.57878E+06	89.799
1550.0	188.81	-2.09385E+06	323.18	-2.59478E+06	87.441
1600.0	190.29	-2.08437E+06	329.20	-2.61109E+06	85.241
1650.0	191.86	-2.07482E+06	335.08	-2.62770E+06	83.184
1700.0	193.51	-2.06518E+06	340.83	-2.64460E+06	81.257
1750.0	195.25	-2.05547E+06	346.47	-2.66178E+06	79.448
1800.0	197.06	-2.04566E+06	351.99	-2.67924E+06	77.748
1850.0	198.95	-2.03576E+06	357.42	-2.69698E+06	76.147
1900.0	200.91	-2.02576E+06	362.75	-2.71498E+06	74.638
1950.0	202.95	-2.01567E+06	367.99	-2.73325E+06	73.214
2000.0	205.06	-2.00546E+06	373.16	-2.75178E+06	71.867
2050.0	207.24	-1.99516E+06	378.25	-2.77057E+06	70.593
2100.0	209.49	-1.98474E+06	383.27	-2.78961E+06	69.386
2146.0	211.62	-1.97505E+06	387.83	-2.80734E+06	68.330
2146.0	234.30	-1.80100E+06	468.94	-2.80734E+06	68.330
2150.0	234.30	-1.80006E+06	469.37	-2.80922E+06	68.249
2200.0	234.30	-1.78835E+06	474.76	-2.83282E+06	67.258
2250.0	234.30	-1.77663E+06	480.03	-2.85669E+06	66.318
2300.0	234.30	-1.76492E+06	485.18	-2.88082E+06	65.424
2350.0	234.30	-1.75320E+06	490.22	-2.90521E+06	64.574
2400.0	234.30	-1.74149E+06	495.15	-2.92984E+06	63.765
2450.0	234.30	-1.72977E+06	499.98	-2.95472E+06	62.994
2500.0	234.30	-1.71806E+06	504.71	-2.97984E+06	62.259
2550.0	234.30	-1.70634E+06	509.35	-3.00519E+06	61.557
2600.0	234.30	-1.69463E+06	513.90	-3.03077E+06	60.887
2650.0	234.30	-1.68291E+06	518.37	-3.05658E+06	60.247
2700.0	234.30	-1.67120E+06	522.75	-3.08261E+06	59.635
2750.0	234.30	-1.65948E+06	527.04	-3.10885E+06	59.049
2800.0	234.30	-1.64776E+06	531.27	-3.13531E+06	58.488
2850.0	234.30	-1.63605E+06	535.41	-3.16198E+06	57.951
2900.0	234.30	-1.62433E+06	539.49	-3.18885E+06	57.436
2950.0	234.30	-1.61262E+06	543.49	-3.21593E+06	56.942
3000.0	234.30	-1.60090E+06	547.43	-3.24320E+06	56.468

AlBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.580	14325.	239.63	-57121.	10.007
300.00	35.606	14391.	239.85	-57565.	10.023
350.00	36.168	16186.	245.39	-69699.	10.402
400.00	36.539	18005.	250.24	-82092.	10.720
450.00	36.799	19838.	254.56	-94714.	10.994
500.00	36.991	21683.	258.45	-1.07541E+05	11.234
550.00	37.139	23537.	261.98	-1.20553E+05	11.449
600.00	37.256	25397.	265.22	-1.33734E+05	11.642
650.00	37.352	27262.	268.20	-1.47070E+05	11.818
700.00	37.434	29132.	270.97	-1.60551E+05	11.980
750.00	37.505	31005.	273.56	-1.74165E+05	12.130
800.00	37.568	32882.	275.98	-1.87904E+05	12.269
850.00	37.625	34762.	278.26	-2.01760E+05	12.398
900.00	37.677	36644.	280.41	-2.15728E+05	12.520
950.00	37.726	38530.	282.45	-2.29800E+05	12.635
1000.0	37.773	40417.	284.39	-2.43971E+05	12.743
1050.0	37.818	42307.	286.23	-2.58237E+05	12.846
1100.0	37.861	44199.	287.99	-2.72593E+05	12.944
1150.0	37.903	46093.	289.68	-2.87035E+05	13.037
1200.0	37.945	47989.	291.29	-3.01560E+05	13.126
1250.0	37.986	49887.	292.84	-3.16163E+05	13.211
1300.0	38.027	51788.	294.33	-3.30843E+05	13.293
1350.0	38.067	53690.	295.77	-3.45595E+05	13.372
1400.0	38.108	55594.	297.15	-3.60419E+05	13.447
1450.0	38.149	57501.	298.49	-3.75310E+05	13.520
1500.0	38.190	59409.	299.78	-3.90267E+05	13.590
1550.0	38.232	61320.	301.04	-4.05288E+05	13.658
1600.0	38.274	63233.	302.25	-4.20370E+05	13.723
1650.0	38.316	65147.	303.43	-4.35512E+05	13.787
1700.0	38.359	67064.	304.57	-4.50712E+05	13.848
1750.0	38.402	68983.	305.69	-4.65969E+05	13.908
1800.0	38.446	70904.	306.77	-4.81281E+05	13.966
1850.0	38.491	72828.	307.82	-4.96645E+05	14.022
1900.0	38.537	74754.	308.85	-5.12062E+05	14.077
1950.0	38.583	76681.	309.85	-5.27530E+05	14.131
2000.0	38.629	78612.	310.83	-5.43047E+05	14.183
2050.0	38.677	80544.	311.78	-5.58613E+05	14.233
2100.0	38.725	82479.	312.72	-5.74225E+05	14.283
2150.0	38.774	84417.	313.63	-5.89884E+05	14.331
2200.0	38.823	86357.	314.52	-6.05588E+05	14.378
2250.0	38.874	88299.	315.39	-6.21336E+05	14.424
2300.0	38.925	90244.	316.25	-6.37127E+05	14.469
2350.0	38.977	92192.	317.09	-6.52960E+05	14.513
2400.0	39.030	94142.	317.91	-6.68835E+05	14.556
2450.0	39.084	96095.	318.71	-6.84751E+05	14.599
2500.0	39.138	98050.	319.50	-7.00706E+05	14.640
2550.0	39.193	1.00009E+05	320.28	-7.16701E+05	14.681
2600.0	39.249	1.01970E+05	321.04	-7.32734E+05	14.720
2650.0	39.306	1.03934E+05	321.79	-7.48804E+05	14.759
2700.0	39.364	1.05900E+05	322.52	-7.64912E+05	14.798
2750.0	39.422	1.07870E+05	323.25	-7.81057E+05	14.835
2800.0	39.482	1.09843E+05	323.96	-7.97237E+05	14.872
2850.0	39.542	1.11818E+05	324.66	-8.13452E+05	14.909
2900.0	39.603	1.13797E+05	325.34	-8.29702E+05	14.944
2950.0	39.665	1.15778E+05	326.02	-8.45986E+05	14.979
3000.0	39.728	1.17763E+05	326.69	-8.62304E+05	15.014

AlBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.221	-1.40662E+05	312.23	-2.33753E+05	40.952
300.00	53.279	-1.40563E+05	312.56	-2.34331E+05	40.800
350.00	54.503	-1.37867E+05	320.87	-2.50172E+05	37.335
400.00	55.301	-1.35120E+05	328.20	-2.66402E+05	34.788
450.00	55.852	-1.32341E+05	334.75	-2.82979E+05	32.847
500.00	56.249	-1.29538E+05	340.66	-2.99867E+05	31.326
550.00	56.546	-1.26717E+05	346.03	-3.17036E+05	30.109
600.00	56.776	-1.23884E+05	350.96	-3.34463E+05	29.117
650.00	56.958	-1.21041E+05	355.52	-3.52126E+05	28.296
700.00	57.105	-1.18189E+05	359.74	-3.70009E+05	27.610
750.00	57.227	-1.15330E+05	363.69	-3.88096E+05	27.029
800.00	57.330	-1.12466E+05	367.38	-4.06374E+05	26.533
850.00	57.419	-1.09598E+05	370.86	-4.24831E+05	26.106
900.00	57.496	-1.06725E+05	374.15	-4.43456E+05	25.737
950.00	57.564	-1.03848E+05	377.26	-4.62242E+05	25.415
1000.0	57.625	-1.00969E+05	380.21	-4.81180E+05	25.134
1050.0	57.680	-98086.	383.02	-5.00261E+05	24.886
1100.0	57.731	-95201.	385.71	-5.19480E+05	24.667
1150.0	57.778	-92313.	388.28	-5.38830E+05	24.474
1200.0	57.823	-89423.	390.74	-5.58306E+05	24.302
1250.0	57.865	-86531.	393.10	-5.77902E+05	24.149
1300.0	57.904	-83636.	395.37	-5.97614E+05	24.012
1350.0	57.943	-80740.	397.55	-6.17437E+05	23.889
1400.0	57.980	-77842.	399.66	-6.37368E+05	23.780
1450.0	58.016	-74942.	401.70	-6.57402E+05	23.682
1500.0	58.051	-72041.	403.66	-6.77536E+05	23.593
1550.0	58.086	-69137.	405.57	-6.97767E+05	23.514
1600.0	58.120	-66232.	407.41	-7.18092E+05	23.443
1650.0	58.154	-63325.	409.20	-7.38508E+05	23.379
1700.0	58.187	-60417.	410.94	-7.59011E+05	23.321
1750.0	58.220	-57506.	412.63	-7.79601E+05	23.269
1800.0	58.254	-54595.	414.27	-8.00273E+05	23.223
1850.0	58.287	-51681.	415.86	-8.21027E+05	23.181
1900.0	58.320	-48766.	417.42	-8.41859E+05	23.144
1950.0	58.354	-45849.	418.93	-8.62768E+05	23.110
2000.0	58.388	-42931.	420.41	-8.83751E+05	23.081
2050.0	58.436	-40010.	421.85	-9.04808E+05	23.054
2100.0	58.488	-37087.	423.26	-9.25936E+05	23.031
2150.0	58.543	-34161.	424.64	-9.47134E+05	23.010
2200.0	58.602	-31232.	425.98	-9.68399E+05	22.992
2250.0	58.663	-28301.	427.30	-9.89732E+05	22.976
2300.0	58.726	-25366.	428.59	-1.01113E+06	22.963
2350.0	58.791	-22428.	429.86	-1.03259E+06	22.951
2400.0	58.858	-19487.	431.09	-1.05411E+06	22.942
2450.0	58.926	-16542.	432.31	-1.07570E+06	22.934
2500.0	58.994	-13594.	433.50	-1.09734E+06	22.927
2550.0	59.064	-10643.	434.67	-1.11905E+06	22.922
2600.0	59.135	-7688.0	435.82	-1.14081E+06	22.919
2650.0	59.206	-4729.5	436.94	-1.16263E+06	22.916
2700.0	59.277	-1767.4	438.05	-1.18451E+06	22.915
2750.0	59.348	1198.2	439.14	-1.20644E+06	22.915
2800.0	59.420	4167.4	440.21	-1.22842E+06	22.916
2850.0	59.491	7140.2	441.26	-1.25046E+06	22.918
2900.0	59.563	10117.	442.30	-1.27255E+06	22.920
2950.0	59.634	13096.	443.32	-1.29469E+06	22.924
3000.0	59.704	16080.	444.32	-1.31688E+06	22.928

AlBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.323	-4.10477E+05	348.02	-5.14239E+05	90.090
300.00	75.411	-4.10338E+05	348.49	-5.14883E+05	89.647
350.00	77.297	-4.06516E+05	360.26	-5.32609E+05	79.485
400.00	78.537	-4.02618E+05	370.67	-5.50887E+05	71.937
450.00	79.399	-3.98669E+05	379.97	-5.69657E+05	66.122
500.00	80.028	-3.94682E+05	388.37	-5.88869E+05	61.517
550.00	80.502	-3.90669E+05	396.02	-6.08482E+05	57.787
600.00	80.871	-3.86634E+05	403.05	-6.28461E+05	54.711
650.00	81.165	-3.82583E+05	409.53	-6.48778E+05	52.135
700.00	81.406	-3.78518E+05	415.55	-6.69407E+05	49.950
750.00	81.605	-3.74443E+05	421.18	-6.90327E+05	48.077
800.00	81.773	-3.70358E+05	426.45	-7.11519E+05	46.456
850.00	81.917	-3.66266E+05	431.41	-7.32967E+05	45.042
900.00	82.041	-3.62167E+05	436.10	-7.54655E+05	43.798
950.00	82.149	-3.58062E+05	440.54	-7.76572E+05	42.698
1000.0	82.244	-3.53952E+05	444.75	-7.98705E+05	41.719
1050.0	82.328	-3.49838E+05	448.77	-8.21044E+05	40.844
1100.0	82.404	-3.45720E+05	452.60	-8.43579E+05	40.057
1150.0	82.471	-3.41598E+05	456.26	-8.66301E+05	39.348
1200.0	82.531	-3.37473E+05	459.78	-8.89203E+05	38.705
1250.0	82.586	-3.33345E+05	463.15	-9.12277E+05	38.121
1300.0	82.635	-3.29214E+05	466.39	-9.35515E+05	37.589
1350.0	82.679	-3.25081E+05	469.50	-9.58913E+05	37.102
1400.0	82.719	-3.20946E+05	472.51	-9.82464E+05	36.655
1450.0	82.755	-3.16810E+05	475.42	-1.00616E+06	36.245
1500.0	82.788	-3.12671E+05	478.22	-1.03000E+06	35.867
1550.0	82.817	-3.08531E+05	480.94	-1.05398E+06	35.518
1600.0	82.843	-3.04389E+05	483.57	-1.07810E+06	35.195
1650.0	82.866	-3.00247E+05	486.12	-1.10234E+06	34.896
1700.0	82.887	-2.96103E+05	488.59	-1.12671E+06	34.619
1750.0	82.904	-2.91958E+05	490.99	-1.15120E+06	34.360
1800.0	82.920	-2.87812E+05	493.33	-1.17580E+06	34.120
1850.0	82.933	-2.83666E+05	495.60	-1.20053E+06	33.896
1900.0	82.944	-2.79519E+05	497.81	-1.22536E+06	33.687
1950.0	82.952	-2.75372E+05	499.97	-1.25031E+06	33.491
2000.0	82.959	-2.71224E+05	502.07	-1.27536E+06	33.308
2050.0	82.963	-2.67076E+05	504.12	-1.30051E+06	33.137
2100.0	82.965	-2.62928E+05	506.12	-1.32577E+06	32.976
2150.0	82.966	-2.58779E+05	508.07	-1.35113E+06	32.825
2200.0	82.965	-2.54631E+05	509.98	-1.37658E+06	32.683
2250.0	82.973	-2.50483E+05	511.84	-1.40212E+06	32.550
2300.0	82.980	-2.46334E+05	513.66	-1.42776E+06	32.425
2350.0	82.987	-2.42185E+05	515.45	-1.45349E+06	32.307
2400.0	82.994	-2.38035E+05	517.20	-1.47930E+06	32.195
2450.0	83.000	-2.33885E+05	518.91	-1.50521E+06	32.091
2500.0	83.005	-2.29735E+05	520.58	-1.53119E+06	31.992
2550.0	83.011	-2.25585E+05	522.23	-1.55726E+06	31.898
2600.0	83.016	-2.21434E+05	523.84	-1.58342E+06	31.810
2650.0	83.021	-2.17283E+05	525.42	-1.60965E+06	31.727
2700.0	83.025	-2.13132E+05	526.97	-1.63596E+06	31.649
2750.0	83.030	-2.08981E+05	528.50	-1.66234E+06	31.574
2800.0	83.034	-2.04829E+05	529.99	-1.68881E+06	31.504
2850.0	83.037	-2.00677E+05	531.46	-1.71534E+06	31.438
2900.0	83.041	-1.96525E+05	532.91	-1.74195E+06	31.375
2950.0	83.045	-1.92373E+05	534.33	-1.76863E+06	31.316
3000.0	83.048	-1.88221E+05	535.72	-1.79539E+06	31.260

Al2Br6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	167.37	-9.42423E+05	537.15	-1.10257E+06	193.16
300.00	167.55	-9.42113E+05	538.18	-1.10357E+06	192.14
350.00	171.46	-9.33630E+05	564.33	-1.13115E+06	168.81
400.00	174.01	-9.24989E+05	587.40	-1.15995E+06	151.47
450.00	175.77	-9.16242E+05	608.00	-1.18984E+06	138.11
500.00	177.03	-9.07421E+05	626.59	-1.22072E+06	127.52
550.00	177.97	-8.98545E+05	643.51	-1.25248E+06	118.95
600.00	178.69	-8.89628E+05	659.03	-1.28504E+06	111.87
650.00	179.25	-8.80679E+05	673.35	-1.31836E+06	105.94
700.00	179.71	-8.71704E+05	686.65	-1.35236E+06	100.91
750.00	180.08	-8.62709E+05	699.07	-1.38701E+06	96.597
800.00	180.38	-8.53698E+05	710.70	-1.42226E+06	92.861
850.00	180.64	-8.44672E+05	721.64	-1.45807E+06	89.600
900.00	180.86	-8.35634E+05	731.97	-1.49441E+06	86.731
950.00	181.05	-8.26587E+05	741.76	-1.53126E+06	84.192
1000.0	181.21	-8.17530E+05	751.05	-1.56858E+06	81.932
1050.0	181.35	-8.08466E+05	759.89	-1.60635E+06	79.910
1100.0	181.48	-7.99395E+05	768.33	-1.64456E+06	78.092
1150.0	181.59	-7.90318E+05	776.40	-1.68318E+06	76.451
1200.0	181.69	-7.81236E+05	784.13	-1.72219E+06	74.963
1250.0	181.78	-7.72150E+05	791.55	-1.76159E+06	73.611
1300.0	181.86	-7.63059E+05	798.68	-1.80134E+06	72.377
1350.0	181.93	-7.53964E+05	805.55	-1.84145E+06	71.248
1400.0	182.00	-7.44865E+05	812.16	-1.88190E+06	70.213
1450.0	182.06	-7.35764E+05	818.55	-1.92266E+06	69.260
1500.0	182.12	-7.26659E+05	824.73	-1.96375E+06	68.382
1550.0	182.17	-7.17552E+05	830.70	-2.00513E+06	67.571
1600.0	182.22	-7.08442E+05	836.48	-2.04681E+06	66.820
1650.0	182.27	-6.99330E+05	842.09	-2.08878E+06	66.124
1700.0	182.31	-6.90216E+05	847.53	-2.13102E+06	65.477
1750.0	182.35	-6.81099E+05	852.82	-2.17353E+06	64.875
1800.0	182.38	-6.71981E+05	857.95	-2.21630E+06	64.314
1850.0	182.42	-6.62861E+05	862.95	-2.25932E+06	63.790
1900.0	182.45	-6.53740E+05	867.82	-2.30259E+06	63.301
1950.0	182.48	-6.44616E+05	872.56	-2.34610E+06	62.843
2000.0	182.50	-6.35492E+05	877.18	-2.38985E+06	62.415
2050.0	182.53	-6.26366E+05	881.68	-2.43382E+06	62.013
2100.0	182.56	-6.17239E+05	886.08	-2.47801E+06	61.636
2150.0	182.58	-6.08110E+05	890.38	-2.52242E+06	61.281
2200.0	182.60	-5.98981E+05	894.58	-2.56705E+06	60.948
2250.0	182.62	-5.89851E+05	898.68	-2.61188E+06	60.634
2300.0	182.64	-5.80719E+05	902.69	-2.65692E+06	60.339
2350.0	182.66	-5.71587E+05	906.62	-2.70215E+06	60.061
2400.0	182.67	-5.62453E+05	910.47	-2.74758E+06	59.798
2450.0	182.69	-5.53319E+05	914.23	-2.79319E+06	59.550
2500.0	182.70	-5.44185E+05	917.93	-2.83900E+06	59.316
2550.0	182.72	-5.35049E+05	921.54	-2.88499E+06	59.095
2600.0	182.73	-5.25913E+05	925.09	-2.93115E+06	58.886
2650.0	182.74	-5.16776E+05	928.57	-2.97749E+06	58.688
2700.0	182.75	-5.07639E+05	931.99	-3.02401E+06	58.501
2750.0	182.76	-4.98501E+05	935.34	-3.07069E+06	58.325
2800.0	182.77	-4.89363E+05	938.64	-3.11754E+06	58.157
2850.0	182.78	-4.80224E+05	941.87	-3.16455E+06	57.998
2900.0	182.79	-4.71085E+05	945.05	-3.21173E+06	57.848
2950.0	182.79	-4.61945E+05	948.17	-3.25906E+06	57.706
3000.0	182.80	-4.52806E+05	951.25	-3.30654E+06	57.571

AlC<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.203	6.82283E+05	225.92	6.14926E+05	-107.73
300.00	33.245	6.82344E+05	226.12	6.14508E+05	-106.99
350.00	34.164	6.84031E+05	231.32	6.03070E+05	-90.001
400.00	34.806	6.85756E+05	235.93	5.91386E+05	-77.225
450.00	35.283	6.87509E+05	240.05	5.79485E+05	-67.263
500.00	35.656	6.89283E+05	243.79	5.67387E+05	-59.273
550.00	35.959	6.91074E+05	247.20	5.55111E+05	-52.719
600.00	36.212	6.92878E+05	250.34	5.42672E+05	-47.243
650.00	36.429	6.94694E+05	253.25	5.30081E+05	-42.597
700.00	36.616	6.96520E+05	255.96	5.17350E+05	-38.604
750.00	36.781	6.98355E+05	258.49	5.04488E+05	-35.135
800.00	36.928	7.00198E+05	260.87	4.91503E+05	-32.091
850.00	37.059	7.02048E+05	263.11	4.78403E+05	-29.398
900.00	37.176	7.03904E+05	265.23	4.65194E+05	-26.998
950.00	37.280	7.05765E+05	267.25	4.51882E+05	-24.846
1000.0	37.374	7.07632E+05	269.16	4.38471E+05	-22.903
1050.0	37.458	7.09503E+05	270.99	4.24967E+05	-21.140
1100.0	37.533	7.11377E+05	272.73	4.11374E+05	-19.534
1150.0	37.598	7.13256E+05	274.40	3.97695E+05	-18.063
1200.0	37.656	7.15137E+05	276.00	3.83935E+05	-16.712
1250.0	37.706	7.17021E+05	277.54	3.70096E+05	-15.465
1300.0	37.763	7.18908E+05	279.02	3.56182E+05	-14.311
1350.0	37.827	7.20797E+05	280.45	3.42195E+05	-13.240
1400.0	37.897	7.22691E+05	281.82	3.28138E+05	-12.243
1450.0	37.975	7.24587E+05	283.15	3.14014E+05	-11.312
1500.0	38.059	7.26488E+05	284.44	2.99824E+05	-10.441
1550.0	38.150	7.28393E+05	285.69	2.85570E+05	-9.6234
1600.0	38.247	7.30303E+05	286.91	2.71255E+05	-8.8553
1650.0	38.351	7.32218E+05	288.08	2.56880E+05	-8.1319
1700.0	38.460	7.34138E+05	289.23	2.42447E+05	-7.4493
1750.0	38.577	7.36064E+05	290.35	2.27958E+05	-6.8040
1800.0	38.699	7.37996E+05	291.44	2.13413E+05	-6.1929
1850.0	38.828	7.39934E+05	292.50	1.98815E+05	-5.6134
1900.0	38.962	7.41879E+05	293.53	1.84164E+05	-5.0629
1950.0	39.103	7.43831E+05	294.55	1.69462E+05	-4.5393
2000.0	39.251	7.45789E+05	295.54	1.54709E+05	-4.0405
2050.0	39.404	7.47756E+05	296.51	1.39908E+05	-3.5648
2100.0	39.563	7.49730E+05	297.46	1.25058E+05	-3.1106
2150.0	39.729	7.51712E+05	298.40	1.10162E+05	-2.6763
2200.0	39.900	7.53703E+05	299.31	95219.	-2.2607
2250.0	40.078	7.55702E+05	300.21	80231.	-1.8626
2300.0	40.261	7.57711E+05	301.09	65198.	-1.4807
2350.0	40.451	7.59729E+05	301.96	50122.	-1.1141
2400.0	40.647	7.61756E+05	302.81	35003.	-0.76180
2450.0	40.848	7.63793E+05	303.65	19841.	-0.42300
2500.0	41.056	7.6584E+05	304.48	4637.5	-9.6E-02
2550.0	41.270	7.67899E+05	305.30	-10607.	0.21727
2600.0	41.490	7.69968E+05	306.10	-25892.	0.52016
2650.0	41.715	7.72048E+05	306.89	-41217.	0.81241
2700.0	41.947	7.74140E+05	307.67	-56581.	1.0946
2750.0	42.185	7.76243E+05	308.45	-71984.	1.3673
2800.0	42.429	7.78358E+05	309.21	-87425.	1.6309
2850.0	42.678	7.80486E+05	309.96	-1.02905E+05	1.8860
2900.0	42.934	7.82626E+05	310.71	-1.18421E+05	2.1329
2950.0	43.196	7.84779E+05	311.44	-1.33975E+05	2.3722
3000.0	43.463	7.86946E+05	312.17	-1.49566E+05	2.6041

AlC2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	47.806	6.75623E+05	252.94	6.00210E+05	-105.15
300.00	47.855	6.75712E+05	253.23	5.99742E+05	-104.42
350.00	49.080	6.78136E+05	260.70	5.86890E+05	-87.586
400.00	50.149	6.80617E+05	267.33	5.73686E+05	-74.914
450.00	51.111	6.83149E+05	273.29	5.60168E+05	-65.021
500.00	51.989	6.85727E+05	278.72	5.46365E+05	-57.077
550.00	52.798	6.88347E+05	283.72	5.32303E+05	-50.553
600.00	53.547	6.91005E+05	288.34	5.18000E+05	-45.095
650.00	54.242	6.93700E+05	292.66	5.03474E+05	-40.459
700.00	54.885	6.96429E+05	296.70	4.88739E+05	-36.469
750.00	55.479	6.99188E+05	300.51	4.73808E+05	-32.998
800.00	56.026	7.01976E+05	304.11	4.58692E+05	-29.949
850.00	56.526	7.04790E+05	307.52	4.43400E+05	-27.247
900.00	56.982	7.07628E+05	310.76	4.27943E+05	-24.837
950.00	57.393	7.10487E+05	313.85	4.12327E+05	-22.671
1000.0	57.760	7.13366E+05	316.81	3.96560E+05	-20.714
1050.0	58.084	7.16263E+05	319.63	3.80648E+05	-18.936
1100.0	58.362	7.19174E+05	322.34	3.64598E+05	-17.313
1150.0	58.661	7.22100E+05	324.94	3.48416E+05	-15.825
1200.0	58.925	7.25039E+05	327.44	3.32106E+05	-14.456
1250.0	59.159	7.27992E+05	329.86	3.15673E+05	-13.191
1300.0	59.368	7.30955E+05	332.18	2.99122E+05	-12.019
1350.0	59.556	7.33928E+05	334.42	2.82456E+05	-10.929
1400.0	59.726	7.36910E+05	336.59	2.65680E+05	-9.9124
1450.0	59.879	7.39900E+05	338.69	2.48798E+05	-8.9624
1500.0	60.018	7.42898E+05	340.72	2.31812E+05	-8.0722
1550.0	60.145	7.45902E+05	342.69	2.14727E+05	-7.2361
1600.0	60.262	7.48912E+05	344.61	1.97544E+05	-6.4490
1650.0	60.369	7.51928E+05	346.46	1.80267E+05	-5.7066
1700.0	60.467	7.54949E+05	348.26	1.62899E+05	-5.0051
1750.0	60.558	7.57975E+05	350.02	1.45441E+05	-4.3411
1800.0	60.643	7.61005E+05	351.73	1.27898E+05	-3.7114
1850.0	60.721	7.64039E+05	353.39	1.10270E+05	-3.1134
1900.0	60.794	7.67077E+05	355.01	92559.	-2.5446
1950.0	60.863	7.70118E+05	356.59	74769.	-2.0028
2000.0	60.926	7.73163E+05	358.13	56901.	-1.4861
2050.0	60.986	7.76211E+05	359.64	38957.	-0.99261
2100.0	61.043	7.79262E+05	361.11	20938.	-0.52080
2150.0	61.096	7.82315E+05	362.54	2846.8	-6.9E-02
2200.0	61.146	7.85371E+05	363.95	-15316.	0.36363
2250.0	61.193	7.88430E+05	365.32	-33548.	0.77880
2300.0	61.237	7.91490E+05	366.67	-51847.	1.1775
2350.0	61.280	7.94553E+05	367.99	-70214.	1.5606
2400.0	61.320	7.97618E+05	369.28	-88646.	1.9293
2450.0	61.358	8.00685E+05	370.54	-1.07141E+05	2.2842
2500.0	61.394	8.03754E+05	371.78	-1.25699E+05	2.6263
2550.0	61.429	8.06825E+05	373.00	-1.44319E+05	2.9562
2600.0	61.461	8.09897E+05	374.19	-1.62999E+05	3.2746
2650.0	61.493	8.12971E+05	375.36	-1.81738E+05	3.5822
2700.0	61.523	8.16046E+05	376.51	-2.00535E+05	3.8795
2750.0	61.551	8.19123E+05	377.64	-2.19388E+05	4.1670
2800.0	61.579	8.22201E+05	378.75	-2.38298E+05	4.4454
2850.0	61.605	8.25281E+05	379.84	-2.57263E+05	4.7150
2900.0	61.630	8.28362E+05	380.91	-2.76282E+05	4.9762
2950.0	61.654	8.31444E+05	381.97	-2.95354E+05	5.2296
3000.0	61.677	8.34527E+05	383.00	-3.14478E+05	5.4754

Al2C2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	67.645	5.44985E+05	284.60	4.60132E+05	-80.611
300.00	67.730	5.45110E+05	285.02	4.59605E+05	-80.022
350.00	69.752	5.48549E+05	295.62	4.45084E+05	-66.423
400.00	71.400	5.52079E+05	305.04	4.30063E+05	-56.159
450.00	72.808	5.55685E+05	313.53	4.14595E+05	-48.124
500.00	74.047	5.59357E+05	321.27	3.98722E+05	-41.653
550.00	75.158	5.63088E+05	328.38	3.82479E+05	-36.324
600.00	76.165	5.66871E+05	334.96	3.65893E+05	-31.853
650.00	77.083	5.70703E+05	341.10	3.48990E+05	-28.044
700.00	77.923	5.74578E+05	346.84	3.31790E+05	-24.758
750.00	78.691	5.78494E+05	352.24	3.14312E+05	-21.890
800.00	79.392	5.82446E+05	357.34	2.96571E+05	-19.364
850.00	80.029	5.86432E+05	362.18	2.78582E+05	-17.119
900.00	80.606	5.90448E+05	366.77	2.60357E+05	-15.110
950.00	81.123	5.94492E+05	371.14	2.41908E+05	-13.301
1000.0	81.582	5.98560E+05	375.31	2.23246E+05	-11.661
1050.0	81.984	6.02649E+05	379.30	2.04380E+05	-10.167
1100.0	82.327	6.06757E+05	383.13	1.85319E+05	-8.7998
1150.0	82.700	6.10883E+05	386.79	1.66070E+05	-7.5430
1200.0	83.028	6.15026E+05	390.32	1.46642E+05	-6.3830
1250.0	83.320	6.19185E+05	393.72	1.27040E+05	-5.3086
1300.0	83.581	6.23358E+05	396.99	1.07272E+05	-4.3101
1350.0	83.815	6.27543E+05	400.15	87343.	-3.3794
1400.0	84.026	6.31739E+05	403.20	67259.	-2.5094
1450.0	84.216	6.35945E+05	406.15	47025.	-1.6940
1500.0	84.390	6.40160E+05	409.01	26646.	-0.92786
1550.0	84.548	6.44384E+05	411.78	6125.5	-0.20642
1600.0	84.693	6.48615E+05	414.47	-14531.	0.47438
1650.0	84.826	6.52853E+05	417.07	-35320.	1.1181
1700.0	84.949	6.57097E+05	419.61	-56237.	1.7279
1750.0	85.062	6.61348E+05	422.07	-77280.	2.3066
1800.0	85.167	6.65603E+05	424.47	-98443.	2.8567
1850.0	85.265	6.69864E+05	426.81	-1.19726E+05	3.3804
1900.0	85.356	6.74130E+05	429.08	-1.41123E+05	3.8796
1950.0	85.441	6.78400E+05	431.30	-1.62633E+05	4.3563
2000.0	85.520	6.82674E+05	433.46	-1.84252E+05	4.8120
2050.0	85.595	6.86952E+05	435.58	-2.05978E+05	5.2483
2100.0	85.665	6.91233E+05	437.64	-2.27809E+05	5.6663
2150.0	85.731	6.95518E+05	439.66	-2.49741E+05	6.0674
2200.0	85.793	6.99806E+05	441.63	-2.71773E+05	6.4526
2250.0	85.852	7.04097E+05	443.56	-2.93903E+05	6.8229
2300.0	85.907	7.08391E+05	445.44	-3.16128E+05	7.1793
2350.0	85.960	7.12688E+05	447.29	-3.38447E+05	7.5226
2400.0	86.009	7.16987E+05	449.10	-3.60857E+05	7.8536
2450.0	86.057	7.21289E+05	450.88	-3.83356E+05	8.1731
2500.0	86.102	7.25593E+05	452.61	-4.05944E+05	8.4815
2550.0	86.145	7.29899E+05	454.32	-4.28617E+05	8.7796
2600.0	86.186	7.34207E+05	455.99	-4.51375E+05	9.0680
2650.0	86.225	7.38518E+05	457.64	-4.74216E+05	9.3471
2700.0	86.262	7.42830E+05	459.25	-4.97138E+05	9.6175
2750.0	86.298	7.47144E+05	460.83	-5.20140E+05	9.8795
2800.0	86.332	7.51460E+05	462.39	-5.43221E+05	10.134
2850.0	86.364	7.55777E+05	463.91	-5.66379E+05	10.380
2900.0	86.396	7.60096E+05	465.42	-5.89612E+05	10.620
2950.0	86.426	7.64416E+05	466.89	-6.12920E+05	10.852
3000.0	86.454	7.68738E+05	468.35	-6.36301E+05	11.079

Al4C3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	116.78	-2.06900E+05	88.950	-2.33420E+05	40.893
300.00	117.36	-2.06683E+05	89.674	-2.33586E+05	40.670
350.00	130.02	-2.00478E+05	108.78	-2.38551E+05	35.601
400.00	138.82	-1.93745E+05	126.75	-2.44445E+05	31.920
450.00	145.39	-1.86632E+05	143.50	-2.51206E+05	29.158
500.00	150.56	-1.79229E+05	159.09	-2.58775E+05	27.033
550.00	154.82	-1.71592E+05	173.65	-2.67098E+05	25.366
600.00	158.46	-1.63757E+05	187.28	-2.76124E+05	24.038
650.00	161.67	-1.55753E+05	200.09	-2.85812E+05	22.968
700.00	164.55	-1.47596E+05	212.18	-2.96121E+05	22.096
750.00	167.21	-1.39301E+05	223.62	-3.07019E+05	21.382
800.00	169.68	-1.30878E+05	234.49	-3.18474E+05	20.794
850.00	172.02	-1.22335E+05	244.85	-3.30460E+05	20.307
900.00	174.25	-1.13678E+05	254.75	-3.42952E+05	19.904
950.00	176.40	-1.04911E+05	264.23	-3.55928E+05	19.570
1000.0	178.47	-96040.	273.33	-3.69368E+05	19.293
1050.0	180.49	-87065.	282.09	-3.83255E+05	19.065
1100.0	182.47	-77991.	290.53	-3.97571E+05	18.879
1150.0	184.40	-68819.	298.68	-4.12303E+05	18.727
1200.0	186.30	-59552.	306.57	-4.27435E+05	18.605
1250.0	188.18	-50190.	314.21	-4.42956E+05	18.510
1300.0	190.03	-40734.	321.63	-4.58853E+05	18.436
1350.0	191.87	-31187.	328.84	-4.75115E+05	18.383
1400.0	193.68	-21548.	335.85	-4.91733E+05	18.346
1450.0	195.48	-11819.	342.67	-5.08697E+05	18.325
1500.0	197.27	-1999.7	349.33	-5.25997E+05	18.316
1550.0	199.05	7908.5	355.83	-5.43627E+05	18.320
1600.0	200.82	17905.	362.18	-5.61578E+05	18.333
1650.0	202.58	27990.	368.38	-5.79843E+05	18.356
1700.0	204.33	38163.	374.46	-5.98414E+05	18.387
1750.0	206.08	48423.	380.41	-6.17286E+05	18.425
1800.0	207.82	58771.	386.24	-6.36453E+05	18.469
1850.0	209.55	69205.	391.95	-6.55908E+05	18.519
1900.0	211.28	79726.	397.56	-6.75646E+05	18.574
1950.0	213.01	90333.	403.07	-6.95663E+05	18.634
2000.0	214.73	1.01026E+05	408.49	-7.15952E+05	18.698
2050.0	216.45	1.11806E+05	413.81	-7.36510E+05	18.766
2100.0	218.16	1.22671E+05	419.05	-7.57332E+05	18.837
2150.0	219.87	1.33622E+05	424.20	-7.78413E+05	18.911
2200.0	221.58	1.44658E+05	429.28	-7.99751E+05	18.988
2250.0	223.29	1.55780E+05	434.28	-8.21340E+05	19.067
2300.0	224.99	1.66987E+05	439.20	-8.43177E+05	19.149
2350.0	226.70	1.78279E+05	444.06	-8.65259E+05	19.232
2400.0	228.40	1.89657E+05	448.85	-8.87582E+05	19.317
2450.0	230.10	2.01119E+05	453.58	-9.10143E+05	19.404
2500.0	231.79	2.12666E+05	458.24	-9.32938E+05	19.492

Al2CO

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	70.047	-6.77808E+05	27.196	-6.85917E+05	120.17
300.00	70.463	-6.77678E+05	27.631	-6.85967E+05	119.43
350.00	79.416	-6.73915E+05	39.216	-6.87640E+05	102.62
400.00	85.374	-6.69786E+05	50.234	-6.89879E+05	90.087
450.00	89.591	-6.65406E+05	60.546	-6.92652E+05	80.399
500.00	92.726	-6.60844E+05	70.155	-6.95922E+05	72.701
550.00	95.154	-6.56145E+05	79.111	-6.99656E+05	66.446
600.00	97.101	-6.51337E+05	87.477	-7.03823E+05	61.272
650.00	98.709	-6.46441E+05	95.315	-7.08395E+05	56.926
700.00	100.07	-6.41470E+05	102.68	-7.13347E+05	53.229
750.00	101.25	-6.36436E+05	109.63	-7.18656E+05	50.050
800.00	102.29	-6.31347E+05	116.19	-7.24303E+05	47.291
850.00	103.23	-6.26209E+05	122.42	-7.30270E+05	44.876
900.00	104.08	-6.21026E+05	128.35	-7.36541E+05	42.747
950.00	104.86	-6.15802E+05	134.00	-7.43100E+05	40.857
1000.0	105.60	-6.10540E+05	139.40	-7.49936E+05	39.172
1050.0	106.28	-6.05243E+05	144.56	-7.57036E+05	37.660
1100.0	106.93	-5.99913E+05	149.52	-7.64389E+05	36.297
1150.0	107.56	-5.94550E+05	154.29	-7.71986E+05	35.064
1200.0	108.15	-5.89157E+05	158.88	-7.79816E+05	33.944
1250.0	108.73	-5.83735E+05	163.31	-7.87871E+05	32.922
1300.0	109.29	-5.78285E+05	167.58	-7.96144E+05	31.989
1350.0	109.83	-5.72807E+05	171.72	-8.04627E+05	31.132
1400.0	110.36	-5.67302E+05	175.72	-8.13314E+05	30.344
1450.0	110.88	-5.61771E+05	179.60	-8.22197E+05	29.618
1500.0	111.39	-5.56214E+05	183.37	-8.31272E+05	28.947
1550.0	111.89	-5.50632E+05	187.03	-8.40533E+05	28.325
1600.0	112.38	-5.45025E+05	190.59	-8.49974E+05	27.748
1650.0	112.87	-5.39394E+05	194.06	-8.59590E+05	27.212
1700.0	113.35	-5.33739E+05	197.43	-8.69378E+05	26.712
1750.0	113.82	-5.28059E+05	200.73	-8.79333E+05	26.246
1800.0	114.29	-5.22357E+05	203.94	-8.89450E+05	25.811
1850.0	114.76	-5.16630E+05	207.08	-8.99725E+05	25.403
1900.0	115.22	-5.10881E+05	210.14	-9.10156E+05	25.021
1950.0	115.68	-5.05108E+05	213.14	-9.20739E+05	24.663
2000.0	116.14	-4.99313E+05	216.08	-9.31470E+05	24.327
2050.0	116.59	-4.93495E+05	218.95	-9.42345E+05	24.011
2100.0	117.04	-4.87654E+05	221.77	-9.53364E+05	23.713
2150.0	117.49	-4.81791E+05	224.53	-9.64521E+05	23.433
2200.0	117.93	-4.75905E+05	227.23	-9.75815E+05	23.168
2250.0	118.38	-4.69998E+05	229.89	-9.87244E+05	22.919
2300.0	118.82	-4.64068E+05	232.49	-9.98803E+05	22.683
2350.0	119.26	-4.58115E+05	235.05	-1.01049E+06	22.460
2400.0	119.70	-4.52141E+05	237.57	-1.02231E+06	22.249
2450.0	120.14	-4.46145E+05	240.04	-1.03425E+06	22.050
2500.0	120.58	-4.40127E+05	242.47	-1.04631E+06	21.861

Al4CO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	149.14	-2.31459E+06	104.60	-2.34578E+06	410.96
300.00	150.06	-2.31431E+06	105.53	-2.34597E+06	408.46
350.00	169.94	-2.30628E+06	130.26	-2.35187E+06	350.99
400.00	183.20	-2.29743E+06	153.88	-2.35898E+06	308.04
450.00	192.60	-2.28802E+06	176.02	-2.36723E+06	274.77
500.00	199.62	-2.27821E+06	196.70	-2.37655E+06	248.27
550.00	205.07	-2.26808E+06	215.99	-2.38688E+06	226.68
600.00	209.46	-2.25772E+06	234.03	-2.39813E+06	208.77
650.00	213.10	-2.24715E+06	250.94	-2.41026E+06	193.69
700.00	216.19	-2.23642E+06	266.85	-2.42321E+06	180.82
750.00	218.89	-2.22554E+06	281.86	-2.43693E+06	169.72
800.00	221.27	-2.21453E+06	296.06	-2.45138E+06	160.05
850.00	223.42	-2.20341E+06	309.54	-2.46653E+06	151.57
900.00	225.39	-2.19219E+06	322.37	-2.48233E+06	144.07
950.00	227.21	-2.18088E+06	334.61	-2.49875E+06	137.39
1000.0	228.91	-2.16947E+06	346.30	-2.51578E+06	131.41
1050.0	230.51	-2.15799E+06	357.51	-2.53337E+06	126.03
1100.0	232.03	-2.14642E+06	368.27	-2.55152E+06	121.16
1150.0	233.49	-2.13479E+06	378.62	-2.57019E+06	116.74
1200.0	234.90	-2.12308E+06	388.58	-2.58938E+06	112.71
1250.0	236.25	-2.11130E+06	398.20	-2.60905E+06	109.02
1300.0	237.57	-2.09945E+06	407.49	-2.62919E+06	105.64
1350.0	238.85	-2.08754E+06	416.48	-2.64979E+06	102.52
1400.0	240.11	-2.07557E+06	425.19	-2.67083E+06	99.648
1450.0	241.34	-2.06353E+06	433.64	-2.69231E+06	96.985
1500.0	242.55	-2.05143E+06	441.84	-2.71419E+06	94.514
1550.0	243.74	-2.03928E+06	449.81	-2.73649E+06	92.217
1600.0	244.91	-2.02706E+06	457.57	-2.75917E+06	90.075
1650.0	246.07	-2.01479E+06	465.12	-2.78224E+06	88.076
1700.0	247.21	-2.00245E+06	472.49	-2.80568E+06	86.206
1750.0	248.34	-1.99006E+06	479.67	-2.82949E+06	84.453
1800.0	249.47	-1.97762E+06	486.68	-2.85364E+06	82.809
1850.0	250.58	-1.96512E+06	493.53	-2.87815E+06	81.262
1900.0	251.68	-1.95256E+06	500.23	-2.90300E+06	79.807
1950.0	252.78	-1.93995E+06	506.78	-2.92817E+06	78.435
2000.0	253.87	-1.92728E+06	513.19	-2.95367E+06	77.140
2050.0	254.96	-1.91456E+06	519.48	-2.97949E+06	75.916
2100.0	256.04	-1.90179E+06	525.63	-3.00562E+06	74.759
2150.0	257.11	-1.88896E+06	531.67	-3.03205E+06	73.662
2200.0	258.19	-1.87608E+06	537.59	-3.05878E+06	72.623
2250.0	259.25	-1.86314E+06	543.41	-3.08581E+06	71.636
2300.0	260.31	-1.85015E+06	549.12	-3.11312E+06	70.699
2350.0	261.37	-1.83711E+06	554.73	-3.14072E+06	69.809
2400.0	262.43	-1.82401E+06	560.24	-3.16859E+06	68.961
2450.0	263.48	-1.81087E+06	565.66	-3.19674E+06	68.154
2500.0	264.53	-1.79767E+06	571.00	-3.22516E+06	67.384

Al2Ca3H12O12

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	432.59	-5.51284E+06	376.56	-5.62511E+06	985.47
300.00	433.67	-5.51204E+06	379.24	-5.62581E+06	979.52
350.00	462.94	-5.48962E+06	448.29	-5.64652E+06	842.68
400.00	492.21	-5.46574E+06	512.02	-5.67055E+06	740.48
450.00	521.47	-5.44040E+06	571.68	-5.69766E+06	661.35
500.00	550.74	-5.41360E+06	628.14	-5.72766E+06	598.35
550.00	580.01	-5.38533E+06	682.00	-5.76043E+06	547.07
600.00	609.27	-5.35560E+06	733.72	-5.79583E+06	504.56
650.00	638.54	-5.32440E+06	783.65	-5.83377E+06	468.80
700.00	667.81	-5.29174E+06	832.04	-5.87417E+06	438.32

Al2Ca4H26O20

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	1021.3	-8.29896E+06	686.18	-8.50355E+06	1489.7
300.00	1025.9	-8.29707E+06	692.51	-8.50482E+06	1480.8
350.00	1150.2	-8.24267E+06	859.99	-8.54366E+06	1275.0
400.00	1274.6	-8.18205E+06	1021.7	-8.59073E+06	1121.8
450.00	1399.0	-8.11521E+06	1179.0	-8.64576E+06	1003.5
500.00	1523.4	-8.04215E+06	1332.8	-8.70857E+06	909.75

Al₂CaH₄O₁₀Si₂

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	233.05	-4.85850E+06	237.70	-4.92937E+06	863.58
300.00	235.00	-4.85807E+06	239.14	-4.92981E+06	858.33
350.00	277.07	-4.84519E+06	278.77	-4.94275E+06	737.65
400.00	305.14	-4.83059E+06	317.71	-4.95767E+06	647.39
450.00	325.06	-4.81481E+06	354.86	-4.97450E+06	577.41
500.00	339.93	-4.79817E+06	389.92	-4.99312E+06	521.61
550.00	351.49	-4.78087E+06	422.88	-5.01345E+06	476.13
600.00	360.81	-4.76305E+06	453.88	-5.03538E+06	438.36
650.00	368.54	-4.74481E+06	483.07	-5.05881E+06	406.52
700.00	375.12	-4.72622E+06	510.63	-5.08366E+06	379.34
750.00	380.85	-4.70732E+06	536.71	-5.10985E+06	355.87
800.00	385.94	-4.68814E+06	561.45	-5.13731E+06	335.42

Al2CaO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.83	-2.32296E+06	114.01	-2.35695E+06	412.92
300.00	120.36	-2.32273E+06	114.76	-2.35716E+06	410.41
350.00	131.93	-2.31641E+06	134.24	-2.36339E+06	352.71
400.00	139.84	-2.30960E+06	152.41	-2.37056E+06	309.56
450.00	145.61	-2.30246E+06	169.22	-2.37861E+06	276.09
500.00	150.05	-2.29506E+06	184.81	-2.38747E+06	249.41
550.00	153.63	-2.28747E+06	199.28	-2.39707E+06	227.65
600.00	156.62	-2.27971E+06	212.78	-2.40738E+06	209.58
650.00	159.19	-2.27181E+06	225.42	-2.41834E+06	194.33
700.00	161.46	-2.26380E+06	237.30	-2.42991E+06	181.32
750.00	163.51	-2.25567E+06	248.51	-2.44205E+06	170.08
800.00	165.39	-2.24745E+06	259.13	-2.45475E+06	160.27
850.00	167.14	-2.23913E+06	269.21	-2.46796E+06	151.66
900.00	168.78	-2.23074E+06	278.81	-2.48166E+06	144.03
950.00	170.35	-2.22226E+06	287.97	-2.49583E+06	137.23
1000.0	171.85	-2.21370E+06	296.75	-2.51045E+06	131.13
1050.0	173.29	-2.20507E+06	305.17	-2.52550E+06	125.63
1100.0	174.69	-2.19637E+06	313.26	-2.54096E+06	120.66
1150.0	176.06	-2.18760E+06	321.06	-2.55682E+06	116.13
1200.0	177.39	-2.17877E+06	328.58	-2.57306E+06	112.00
1250.0	178.70	-2.16987E+06	335.85	-2.58968E+06	108.21
1300.0	179.98	-2.16090E+06	342.88	-2.60664E+06	104.73
1350.0	181.25	-2.15187E+06	349.70	-2.62396E+06	101.52
1400.0	182.50	-2.14277E+06	356.31	-2.64161E+06	98.557
1450.0	183.74	-2.13362E+06	362.74	-2.65959E+06	95.806
1500.0	184.97	-2.12440E+06	368.99	-2.67788E+06	93.250
1550.0	186.18	-2.11512E+06	375.07	-2.69648E+06	90.869
1600.0	187.39	-2.10578E+06	381.00	-2.71539E+06	88.646
1650.0	188.59	-2.09638E+06	386.79	-2.73458E+06	86.567
1700.0	189.78	-2.08692E+06	392.44	-2.75406E+06	84.620
1750.0	190.96	-2.07741E+06	397.95	-2.77382E+06	82.792
1800.0	192.14	-2.06783E+06	403.35	-2.79386E+06	81.074

Al2Ca3O6

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	204.68	-3.58485E+06	205.43	-3.64610E+06	638.77
300.00	205.42	-3.58447E+06	206.70	-3.64648E+06	634.89
350.00	221.54	-3.57377E+06	239.66	-3.65765E+06	545.86
400.00	232.55	-3.56240E+06	270.01	-3.67041E+06	479.29
450.00	240.59	-3.55056E+06	297.89	-3.68461E+06	427.69
500.00	246.79	-3.53837E+06	323.57	-3.70016E+06	386.54
550.00	251.79	-3.52590E+06	347.33	-3.71694E+06	353.00
600.00	255.96	-3.51321E+06	369.42	-3.73486E+06	325.14
650.00	259.56	-3.50032E+06	390.06	-3.75386E+06	301.66
700.00	262.73	-3.48726E+06	409.41	-3.77385E+06	281.60
750.00	265.60	-3.47405E+06	427.64	-3.79478E+06	264.29
800.00	268.23	-3.46070E+06	444.86	-3.81659E+06	249.19
850.00	270.68	-3.44723E+06	461.20	-3.83925E+06	235.93
900.00	272.98	-3.43364E+06	476.74	-3.86270E+06	224.18
950.00	275.17	-3.41993E+06	491.55	-3.88691E+06	213.71
1000.0	277.27	-3.40612E+06	505.72	-3.91185E+06	204.33
1050.0	279.30	-3.39221E+06	519.30	-3.93747E+06	195.87
1100.0	281.26	-3.37819E+06	532.34	-3.96377E+06	188.22
1150.0	283.18	-3.36408E+06	544.88	-3.99070E+06	181.26
1200.0	285.05	-3.34988E+06	556.98	-4.01825E+06	174.91
1250.0	286.89	-3.33558E+06	568.65	-4.04639E+06	169.09
1300.0	288.69	-3.32119E+06	579.94	-4.07511E+06	163.74
1350.0	290.47	-3.30671E+06	590.87	-4.10438E+06	158.80
1400.0	292.23	-3.29214E+06	601.46	-4.13419E+06	154.24
1450.0	293.96	-3.27749E+06	611.75	-4.16452E+06	150.02
1500.0	295.69	-3.26275E+06	621.74	-4.19536E+06	146.09
1550.0	297.39	-3.24792E+06	631.46	-4.22669E+06	142.43
1600.0	299.09	-3.23301E+06	640.93	-4.25850E+06	139.02
1650.0	300.77	-3.21801E+06	650.16	-4.29078E+06	135.83
1700.0	302.44	-3.20293E+06	659.17	-4.32351E+06	132.84
1750.0	304.10	-3.18777E+06	667.96	-4.35669E+06	130.04
1800.0	305.76	-3.17252E+06	676.55	-4.39030E+06	127.40

Al4CaO7

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	199.58	-3.99907E+06	177.82	-4.05208E+06	709.89
300.00	200.65	-3.99870E+06	179.06	-4.05241E+06	705.57
350.00	223.75	-3.98804E+06	211.85	-4.06219E+06	606.23
400.00	239.14	-3.97645E+06	242.80	-4.07357E+06	531.94
450.00	250.06	-3.96420E+06	271.63	-4.08644E+06	474.33
500.00	258.19	-3.95149E+06	298.42	-4.10070E+06	428.39
550.00	264.51	-3.93842E+06	323.33	-4.11625E+06	390.92
600.00	269.59	-3.92506E+06	346.57	-4.13300E+06	359.80
650.00	273.80	-3.91147E+06	368.32	-4.15088E+06	333.56
700.00	277.37	-3.89769E+06	388.75	-4.16981E+06	311.15
750.00	280.48	-3.88374E+06	407.99	-4.18974E+06	291.79
800.00	283.23	-3.86965E+06	426.18	-4.21060E+06	274.92
850.00	285.70	-3.85542E+06	443.43	-4.23234E+06	260.08
900.00	287.96	-3.84108E+06	459.83	-4.25492E+06	246.94
950.00	290.05	-3.82663E+06	475.45	-4.27831E+06	235.23
1000.0	292.00	-3.81208E+06	490.38	-4.30246E+06	224.73
1050.0	293.84	-3.79743E+06	504.67	-4.32734E+06	215.27
1100.0	295.59	-3.78270E+06	518.38	-4.35292E+06	206.70
1150.0	297.26	-3.76787E+06	531.56	-4.37917E+06	198.90
1200.0	298.86	-3.75297E+06	544.24	-4.40606E+06	191.79
1250.0	300.41	-3.73799E+06	556.47	-4.43358E+06	185.26
1300.0	301.92	-3.72293E+06	568.29	-4.46170E+06	179.27
1350.0	303.39	-3.70780E+06	579.71	-4.49040E+06	173.74
1400.0	304.82	-3.69259E+06	590.77	-4.51967E+06	168.63
1450.0	306.22	-3.67732E+06	601.49	-4.54948E+06	163.89
1500.0	307.60	-3.66197E+06	611.89	-4.57981E+06	159.48
1550.0	308.96	-3.64656E+06	622.00	-4.61066E+06	155.37
1600.0	310.30	-3.63107E+06	631.83	-4.64201E+06	151.54
1650.0	311.62	-3.61553E+06	641.40	-4.67384E+06	147.96
1700.0	312.92	-3.59991E+06	650.72	-4.70614E+06	144.60
1750.0	314.21	-3.58423E+06	659.81	-4.73891E+06	141.45
1800.0	315.49	-3.56849E+06	668.68	-4.77212E+06	138.48

Al12CaO19

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	509.44	-1.06935E+07	403.76	-1.08138E+07	1894.5
300.00	512.58	-1.06925E+07	406.92	-1.08146E+07	1882.9
350.00	580.49	-1.06651E+07	491.40	-1.08371E+07	1617.3
400.00	626.36	-1.06348E+07	572.09	-1.08637E+07	1418.6
450.00	659.37	-1.06027E+07	647.87	-1.08942E+07	1264.5
500.00	684.38	-1.05690E+07	718.69	-1.09284E+07	1141.7
550.00	704.13	-1.05343E+07	784.88	-1.09660E+07	1041.4
600.00	720.28	-1.04987E+07	846.86	-1.10068E+07	958.20
650.00	733.87	-1.04623E+07	905.07	-1.10506E+07	888.02
700.00	745.58	-1.04253E+07	959.89	-1.10972E+07	828.07
750.00	755.88	-1.03878E+07	1011.7	-1.11465E+07	776.29
800.00	765.09	-1.03498E+07	1060.8	-1.11984E+07	731.16
850.00	773.44	-1.03113E+07	1107.4	-1.12526E+07	691.48
900.00	781.11	-1.02724E+07	1151.8	-1.13091E+07	656.34
950.00	788.21	-1.02332E+07	1194.3	-1.13677E+07	625.03
1000.0	794.85	-1.01936E+07	1234.9	-1.14285E+07	596.95
1050.0	801.09	-1.01537E+07	1273.8	-1.14912E+07	571.64
1100.0	807.00	-1.01135E+07	1311.2	-1.15558E+07	548.73
1150.0	812.61	-1.00730E+07	1347.2	-1.16223E+07	527.89
1200.0	817.97	-1.00322E+07	1381.9	-1.16905E+07	508.86
1250.0	823.10	-9.99122E+06	1415.4	-1.17605E+07	491.43
1300.0	828.02	-9.94994E+06	1447.8	-1.18320E+07	475.41
1350.0	832.76	-9.90842E+06	1479.1	-1.19052E+07	460.63
1400.0	837.33	-9.86666E+06	1509.5	-1.19799E+07	446.97
1450.0	841.74	-9.82469E+06	1538.9	-1.20562E+07	434.30
1500.0	846.00	-9.78249E+06	1567.6	-1.21338E+07	422.53
1550.0	850.13	-9.74009E+06	1595.4	-1.22129E+07	411.56
1600.0	854.12	-9.69748E+06	1622.4	-1.22933E+07	401.33
1650.0	858.00	-9.65468E+06	1648.8	-1.23751E+07	391.75
1700.0	861.76	-9.61168E+06	1674.4	-1.24582E+07	382.78
1750.0	865.40	-9.56851E+06	1699.5	-1.25426E+07	374.37
1800.0	868.94	-9.52515E+06	1723.9	-1.26281E+07	366.45
1850.0	872.37	-9.48161E+06	1747.7	-1.27149E+07	359.00
1900.0	875.70	-9.43791E+06	1771.1	-1.28029E+07	351.97
1950.0	878.94	-9.39404E+06	1793.8	-1.28920E+07	345.33
2000.0	882.07	-9.35002E+06	1816.1	-1.29823E+07	339.05
2050.0	885.12	-9.30584E+06	1838.0	-1.30736E+07	333.11
2100.0	888.07	-9.26151E+06	1859.3	-1.31661E+07	327.48

Al14Ca12O33

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	1084.8	-1.93740E+07	1044.7	-1.96855E+07	3448.7
300.00	1088.5	-1.93720E+07	1051.5	-1.96874E+07	3427.8
350.00	1170.4	-1.93154E+07	1225.8	-1.97444E+07	2946.6
400.00	1228.4	-1.92554E+07	1386.1	-1.98098E+07	2586.8
450.00	1272.5	-1.91928E+07	1533.4	-1.98828E+07	2307.9
500.00	1307.9	-1.91282E+07	1669.4	-1.99629E+07	2085.5
550.00	1337.6	-1.90621E+07	1795.5	-2.00496E+07	1904.1
600.00	1363.6	-1.89945E+07	1913.0	-2.01423E+07	1753.5
650.00	1386.8	-1.89258E+07	2023.1	-2.02408E+07	1626.5
700.00	1408.0	-1.88559E+07	2126.6	-2.03445E+07	1518.1
750.00	1427.8	-1.87850E+07	2224.5	-2.04533E+07	1424.5
800.00	1446.5	-1.87131E+07	2317.2	-2.05669E+07	1342.8
850.00	1464.3	-1.86404E+07	2405.4	-2.06850E+07	1271.1
900.00	1481.5	-1.85667E+07	2489.6	-2.08074E+07	1207.6
950.00	1498.1	-1.84922E+07	2570.2	-2.09339E+07	1151.0
1000.0	1514.3	-1.84169E+07	2647.4	-2.10643E+07	1100.3
1050.0	1530.2	-1.83408E+07	2721.7	-2.11986E+07	1054.5
1100.0	1545.7	-1.82639E+07	2793.2	-2.13365E+07	1013.2
1150.0	1561.1	-1.81862E+07	2862.3	-2.14779E+07	975.53
1200.0	1576.2	-1.81078E+07	2929.1	-2.16227E+07	941.19
1250.0	1591.2	-1.80286E+07	2993.7	-2.17707E+07	909.73
1300.0	1606.0	-1.79487E+07	3056.4	-2.19220E+07	880.81
1350.0	1620.7	-1.78680E+07	3117.3	-2.20763E+07	854.16
1400.0	1635.3	-1.77866E+07	3176.5	-2.22337E+07	829.53
1450.0	1649.8	-1.77045E+07	3234.1	-2.23940E+07	806.70
1500.0	1664.2	-1.76216E+07	3290.3	-2.25571E+07	785.49
1550.0	1678.6	-1.75381E+07	3345.1	-2.27230E+07	765.74
1600.0	1692.8	-1.74538E+07	3398.6	-2.28916E+07	747.31
1650.0	1707.1	-1.73688E+07	3450.9	-2.30628E+07	730.09
1700.0	1721.3	-1.72831E+07	3502.1	-2.32366E+07	713.96
1750.0	1735.4	-1.71967E+07	3552.2	-2.34130E+07	698.82
1800.0	1749.6	-1.71095E+07	3601.3	-2.35919E+07	684.60

Al2CaO8Si2<ANORTHITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	157.69	-4.21831E+06	202.51	-4.27869E+06	749.59
300.00	159.65	-4.21802E+06	203.49	-4.27906E+06	745.03
350.00	201.72	-4.20890E+06	231.49	-4.28993E+06	640.22
400.00	229.78	-4.19807E+06	260.38	-4.30222E+06	561.80
450.00	249.71	-4.18606E+06	288.65	-4.31595E+06	500.97
500.00	264.58	-4.17319E+06	315.77	-4.33107E+06	452.45
550.00	276.14	-4.15966E+06	341.55	-4.34751E+06	412.88
600.00	285.46	-4.14561E+06	365.99	-4.36520E+06	380.02
650.00	293.19	-4.13114E+06	389.15	-4.38409E+06	352.30
700.00	299.77	-4.11631E+06	411.12	-4.40410E+06	328.63
750.00	305.50	-4.10118E+06	432.01	-4.42518E+06	308.19
800.00	310.58	-4.08577E+06	451.89	-4.44728E+06	290.37
850.00	315.17	-4.07013E+06	470.86	-4.47035E+06	274.71
900.00	319.36	-4.05426E+06	488.99	-4.49435E+06	260.84
950.00	323.24	-4.03819E+06	506.36	-4.51924E+06	248.48
1000.0	326.88	-4.02194E+06	523.04	-4.54498E+06	237.40
1050.0	330.30	-4.00551E+06	539.07	-4.57153E+06	227.42
1100.0	333.56	-3.98891E+06	554.51	-4.59888E+06	218.38
1150.0	336.68	-3.97216E+06	569.41	-4.62698E+06	210.16
1200.0	339.69	-3.95525E+06	583.80	-4.65581E+06	202.66
1250.0	342.59	-3.93819E+06	597.73	-4.68535E+06	195.79
1300.0	345.42	-3.92099E+06	611.22	-4.71557E+06	189.47
1350.0	348.17	-3.90365E+06	624.31	-4.74646E+06	183.65
1400.0	350.86	-3.88617E+06	637.02	-4.77800E+06	178.26
1450.0	353.50	-3.86856E+06	649.38	-4.81016E+06	173.28
1500.0	356.09	-3.85082E+06	661.40	-4.84293E+06	168.64
1550.0	358.64	-3.83296E+06	673.12	-4.87629E+06	164.33
1600.0	361.16	-3.81496E+06	684.55	-4.91024E+06	160.30
1650.0	363.64	-3.79684E+06	695.70	-4.94474E+06	156.53
1700.0	366.10	-3.77860E+06	706.59	-4.97980E+06	153.01
1750.0	368.53	-3.76023E+06	717.24	-5.01540E+06	149.70
1800.0	370.94	-3.74174E+06	727.65	-5.05152E+06	146.59
1826.0	372.19	-3.73208E+06	732.98	-5.07051E+06	145.04
1826.0	380.74	-3.56514E+06	824.41	-5.07051E+06	145.04
1850.0	380.74	-3.55600E+06	829.38	-5.09036E+06	143.72
1900.0	380.74	-3.53697E+06	839.53	-5.13208E+06	141.09
1950.0	380.74	-3.51793E+06	849.42	-5.17431E+06	138.60
2000.0	380.74	-3.49889E+06	859.06	-5.21702E+06	136.25
2050.0	380.74	-3.47986E+06	868.46	-5.26021E+06	134.03
2100.0	380.74	-3.46082E+06	877.64	-5.30386E+06	131.92

Al₂Ca₂O₇Si<GEHLENITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	241.68	-3.98576E+06	209.16	-4.04812E+06	709.20
300.00	242.13	-3.98531E+06	210.65	-4.04851E+06	704.89
350.00	252.12	-3.97294E+06	248.78	-4.06001E+06	605.91
400.00	259.03	-3.96015E+06	282.92	-4.07332E+06	531.91
450.00	264.15	-3.94707E+06	313.74	-4.08825E+06	474.54
500.00	268.16	-3.93375E+06	341.79	-4.10465E+06	428.80
550.00	271.44	-3.92026E+06	367.50	-4.12239E+06	391.50
600.00	274.22	-3.90662E+06	391.24	-4.14136E+06	360.53
650.00	276.66	-3.89285E+06	413.29	-4.16148E+06	334.41
700.00	278.84	-3.87896E+06	433.88	-4.18267E+06	312.11
750.00	280.84	-3.86496E+06	453.18	-4.20485E+06	292.84
800.00	282.69	-3.85088E+06	471.37	-4.22797E+06	276.05
850.00	284.43	-3.83670E+06	488.56	-4.25197E+06	261.29
900.00	286.09	-3.82243E+06	504.86	-4.27681E+06	248.21
950.00	287.68	-3.80809E+06	520.37	-4.30244E+06	236.56
1000.0	289.22	-3.79367E+06	535.17	-4.32884E+06	226.11
1050.0	290.71	-3.77917E+06	549.32	-4.35595E+06	216.69
1100.0	292.16	-3.76460E+06	562.87	-4.38376E+06	208.16
1150.0	293.58	-3.74995E+06	575.89	-4.41223E+06	200.40
1200.0	294.98	-3.73524E+06	588.42	-4.44134E+06	193.32
1250.0	296.35	-3.72046E+06	600.49	-4.47106E+06	186.83
1300.0	297.71	-3.70560E+06	612.14	-4.50138E+06	180.86
1350.0	299.05	-3.69069E+06	623.40	-4.53227E+06	175.36
1400.0	300.38	-3.67570E+06	634.30	-4.56371E+06	170.27
1450.0	301.69	-3.66065E+06	644.86	-4.59569E+06	165.55
1500.0	303.00	-3.64553E+06	655.11	-4.62819E+06	161.16
1550.0	304.29	-3.63035E+06	665.07	-4.66120E+06	157.08
1600.0	305.58	-3.61510E+06	674.75	-4.69470E+06	153.26
1650.0	306.86	-3.59979E+06	684.17	-4.72867E+06	149.69
1700.0	308.14	-3.58442E+06	693.35	-4.76311E+06	146.35
1750.0	309.41	-3.56898E+06	702.30	-4.79800E+06	143.21
1800.0	310.68	-3.55347E+06	711.03	-4.83334E+06	140.26

Al₂Ca₃O₁₂Si₃<GROSSULAR>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	323.14	-6.63792E+06	241.31	-6.70986E+06	1175.5
300.00	325.05	-6.63732E+06	243.31	-6.71031E+06	1168.3
350.00	366.25	-6.61996E+06	296.74	-6.72382E+06	1003.4
400.00	393.85	-6.60092E+06	347.56	-6.73994E+06	880.12
450.00	413.55	-6.58071E+06	395.15	-6.75852E+06	784.49
500.00	428.34	-6.55964E+06	439.52	-6.77940E+06	708.22
550.00	439.92	-6.53792E+06	480.91	-6.80242E+06	646.02
600.00	449.32	-6.51569E+06	519.60	-6.82745E+06	594.37
650.00	457.18	-6.49302E+06	555.89	-6.85434E+06	550.81
700.00	463.93	-6.46999E+06	590.02	-6.88300E+06	513.60
750.00	469.85	-6.44664E+06	622.23	-6.91331E+06	481.47
800.00	475.14	-6.42301E+06	652.73	-6.94520E+06	453.46
850.00	479.94	-6.39913E+06	681.68	-6.97856E+06	428.84
900.00	484.37	-6.37502E+06	709.24	-7.01334E+06	407.03
950.00	488.49	-6.35070E+06	735.54	-7.04946E+06	387.60
1000.0	492.37	-6.32618E+06	760.70	-7.08687E+06	370.17
1050.0	496.05	-6.30147E+06	784.81	-7.12552E+06	354.47
1100.0	499.57	-6.27658E+06	807.97	-7.16534E+06	340.24
1150.0	502.95	-6.25151E+06	830.25	-7.20630E+06	327.31
1200.0	506.23	-6.22628E+06	851.72	-7.24835E+06	315.50
1250.0	509.40	-6.20089E+06	872.45	-7.29146E+06	304.69
1300.0	512.50	-6.17534E+06	892.49	-7.33559E+06	294.74
1350.0	515.52	-6.14964E+06	911.89	-7.38070E+06	285.57
1400.0	518.49	-6.12379E+06	930.69	-7.42676E+06	277.09
1450.0	521.40	-6.09780E+06	948.94	-7.47376E+06	269.23
1500.0	524.27	-6.07165E+06	966.66	-7.52165E+06	261.92
1550.0	527.10	-6.04537E+06	983.90	-7.57042E+06	255.11
1600.0	529.90	-6.01894E+06	1000.7	-7.62003E+06	248.76
1650.0	532.67	-5.99238E+06	1017.0	-7.67048E+06	242.82
1700.0	535.41	-5.96568E+06	1033.0	-7.72173E+06	237.25

Al2CdO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	129.97	-1.91795E+06	125.10	-1.95524E+06	342.54
300.00	130.47	-1.91770E+06	125.91	-1.95548E+06	340.47
350.00	141.40	-1.91089E+06	146.90	-1.96230E+06	292.85
400.00	148.92	-1.90362E+06	166.30	-1.97014E+06	257.27
450.00	154.45	-1.89603E+06	184.17	-1.97891E+06	229.70
500.00	158.74	-1.88820E+06	200.68	-1.98853E+06	207.74
550.00	162.23	-1.88017E+06	215.97	-1.99896E+06	189.84
600.00	165.17	-1.87198E+06	230.22	-2.01011E+06	174.99
650.00	167.72	-1.86366E+06	243.54	-2.02196E+06	162.48
700.00	169.99	-1.85522E+06	256.06	-2.03446E+06	151.81
750.00	172.05	-1.84666E+06	267.86	-2.04756E+06	142.60
800.00	173.95	-1.83801E+06	279.02	-2.06123E+06	134.58
850.00	175.73	-1.82927E+06	289.62	-2.07545E+06	127.54
900.00	177.42	-1.82044E+06	299.71	-2.09018E+06	121.31
950.00	179.03	-1.81153E+06	309.35	-2.10541E+06	115.76
1000.0	180.58	-1.80254E+06	318.57	-2.12111E+06	110.79
1050.0	182.08	-1.79347E+06	327.42	-2.13726E+06	106.32
1100.0	183.54	-1.78433E+06	335.92	-2.15385E+06	102.28
1150.0	184.96	-1.77512E+06	344.11	-2.17085E+06	98.601
1200.0	186.36	-1.76584E+06	352.02	-2.18826E+06	95.250

AlCeO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	94.538	-1.76648E+06	109.62	-1.79917E+06	315.20
300.00	94.851	-1.76631E+06	110.21	-1.79937E+06	313.29
350.00	101.82	-1.76138E+06	125.38	-1.80527E+06	269.41
400.00	106.85	-1.75616E+06	139.33	-1.81189E+06	236.60
450.00	110.74	-1.75072E+06	152.14	-1.81918E+06	211.16
500.00	113.93	-1.74510E+06	163.98	-1.82709E+06	190.87
550.00	116.66	-1.73933E+06	174.97	-1.83556E+06	174.32
600.00	119.08	-1.73344E+06	185.23	-1.84457E+06	160.58
650.00	121.27	-1.72743E+06	194.85	-1.85408E+06	148.99
700.00	123.31	-1.72131E+06	203.91	-1.86405E+06	139.09
750.00	125.23	-1.71510E+06	212.48	-1.87446E+06	130.55
800.00	127.05	-1.70879E+06	220.62	-1.88529E+06	123.09
850.00	128.81	-1.70239E+06	228.38	-1.89652E+06	116.54
900.00	130.52	-1.69591E+06	235.79	-1.90812E+06	110.74
950.00	132.18	-1.68934E+06	242.89	-1.92009E+06	105.57
1000.0	133.80	-1.68269E+06	249.71	-1.93241E+06	100.94
1050.0	135.40	-1.67596E+06	256.28	-1.94506E+06	96.759
1100.0	136.98	-1.66915E+06	262.62	-1.95803E+06	92.977
1150.0	138.53	-1.66226E+06	268.74	-1.97131E+06	89.538
1200.0	140.07	-1.65530E+06	274.67	-1.98490E+06	86.398
1250.0	141.59	-1.64826E+06	280.42	-1.99878E+06	83.522
1300.0	143.11	-1.64114E+06	286.00	-2.01294E+06	80.879
1350.0	144.61	-1.63395E+06	291.43	-2.02738E+06	78.442
1400.0	146.11	-1.62668E+06	296.71	-2.04208E+06	76.189
1450.0	147.59	-1.61934E+06	301.87	-2.05704E+06	74.101
1500.0	149.08	-1.61192E+06	306.90	-2.07226E+06	72.161
1550.0	150.55	-1.60443E+06	311.81	-2.08773E+06	70.354
1600.0	152.02	-1.59686E+06	316.61	-2.10344E+06	68.669
1650.0	153.49	-1.58923E+06	321.31	-2.11939E+06	67.093
1700.0	154.95	-1.58152E+06	325.92	-2.13557E+06	65.617
1750.0	156.41	-1.57373E+06	330.43	-2.15198E+06	64.232
1800.0	157.87	-1.56588E+06	334.86	-2.16861E+06	62.930

AlCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.637	-51007.	227.96	-1.18973E+05	20.843
300.00	34.671	-50943.	228.17	-1.19395E+05	20.788
350.00	35.400	-49190.	233.58	-1.30941E+05	19.541
400.00	35.886	-47407.	238.34	-1.42741E+05	18.640
450.00	36.231	-45604.	242.58	-1.54766E+05	17.964
500.00	36.489	-43785.	246.42	-1.66993E+05	17.445
550.00	36.690	-41956.	249.90	-1.79402E+05	17.038
600.00	36.851	-40117.	253.10	-1.91978E+05	16.713
650.00	36.985	-38271.	256.06	-2.04708E+05	16.450
700.00	37.099	-36419.	258.80	-2.17581E+05	16.236
750.00	37.199	-34561.	261.37	-2.30586E+05	16.059
800.00	37.287	-32699.	263.77	-2.43715E+05	15.913
850.00	37.366	-30833.	266.03	-2.56960E+05	15.790
900.00	37.438	-28963.	268.17	-2.70316E+05	15.688
950.00	37.505	-27089.	270.20	-2.83776E+05	15.603
1000.0	37.568	-25212.	272.12	-2.97334E+05	15.531
1050.0	37.626	-23332.	273.96	-3.10986E+05	15.470
1100.0	37.682	-21450.	275.71	-3.24728E+05	15.420
1150.0	37.736	-19564.	277.38	-3.38556E+05	15.377
1200.0	37.787	-17676.	278.99	-3.52465E+05	15.342
1250.0	37.836	-15785.	280.53	-3.66454E+05	15.313
1300.0	37.884	-13892.	282.02	-3.80518E+05	15.289
1350.0	37.931	-11997.	283.45	-3.94655E+05	15.270
1400.0	37.976	-10099.	284.83	-4.08862E+05	15.254
1450.0	38.021	-8199.4	286.16	-4.23137E+05	15.243
1500.0	38.064	-6297.3	287.45	-4.37478E+05	15.234
1550.0	38.107	-4393.0	288.70	-4.51882E+05	15.228
1600.0	38.149	-2486.7	289.91	-4.66347E+05	15.224
1650.0	38.190	-578.18	291.09	-4.80872E+05	15.223
1700.0	38.231	1332.3	292.23	-4.95455E+05	15.223
1750.0	38.271	3244.9	293.34	-5.10095E+05	15.225
1800.0	38.311	5159.4	294.42	-5.24789E+05	15.229
1850.0	38.350	7075.9	295.47	-5.39536E+05	15.233
1900.0	38.389	8994.4	296.49	-5.54335E+05	15.239
1950.0	38.428	10915.	297.49	-5.69184E+05	15.246
2000.0	38.466	12837.	298.46	-5.84083E+05	15.254
2050.0	38.504	14761.	299.41	-5.99030E+05	15.263
2100.0	38.541	16688.	300.34	-6.14024E+05	15.273
2150.0	38.579	18616.	301.25	-6.29063E+05	15.283
2200.0	38.616	20545.	302.13	-6.44148E+05	15.294
2250.0	38.652	22477.	303.00	-6.59276E+05	15.305
2300.0	38.689	24411.	303.85	-6.74448E+05	15.317
2350.0	38.725	26346.	304.68	-6.89661E+05	15.329
2400.0	38.763	28283.	305.50	-7.04916E+05	15.342
2450.0	38.797	30222.	306.30	-7.20211E+05	15.355
2500.0	38.833	32163.	307.08	-7.35546E+05	15.368
2550.0	38.871	34106.	307.85	-7.50919E+05	15.382
2600.0	38.910	36050.	308.61	-7.66331E+05	15.395
2650.0	38.951	37997.	309.35	-7.81780E+05	15.409
2700.0	38.994	39945.	310.08	-7.97265E+05	15.424
2750.0	39.039	41896.	310.79	-8.12787E+05	15.438
2800.0	39.086	43849.	311.50	-8.28345E+05	15.453
2850.0	39.135	45805.	312.19	-8.43937E+05	15.467
2900.0	39.186	47763.	312.87	-8.59563E+05	15.482
2950.0	39.240	49723.	313.54	-8.75224E+05	15.497
3000.0	39.296	51687.	314.20	-8.90917E+05	15.512

AlCl₃<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	51.539	-2.40874E+05	290.37	-3.27448E+05	57.366
300.00	51.610	-2.40779E+05	290.69	-3.27985E+05	57.106
350.00	53.134	-2.38157E+05	298.77	-3.42726E+05	51.148
400.00	54.152	-2.35474E+05	305.93	-3.57846E+05	46.729
450.00	54.874	-2.32747E+05	312.35	-3.73306E+05	43.331
500.00	55.410	-2.29989E+05	318.17	-3.89072E+05	40.645
550.00	55.824	-2.27208E+05	323.47	-4.05114E+05	38.474
600.00	56.153	-2.24408E+05	328.34	-4.21411E+05	36.686
650.00	56.421	-2.21594E+05	332.84	-4.37942E+05	35.193
700.00	56.644	-2.18767E+05	337.03	-4.54690E+05	33.929
750.00	56.831	-2.15930E+05	340.95	-4.71641E+05	32.847
800.00	56.992	-2.13084E+05	344.62	-4.88781E+05	31.913
850.00	57.129	-2.10231E+05	348.08	-5.06100E+05	31.100
900.00	57.249	-2.07371E+05	351.35	-5.23586E+05	30.387
950.00	57.353	-2.04506E+05	354.45	-5.41232E+05	29.758
1000.0	57.444	-2.01636E+05	357.39	-5.59028E+05	29.200
1050.0	57.523	-1.98762E+05	360.20	-5.76969E+05	28.702
1100.0	57.592	-1.95884E+05	362.87	-5.95046E+05	28.256
1150.0	57.651	-1.93003E+05	365.44	-6.13254E+05	27.854
1200.0	57.702	-1.90119E+05	367.89	-6.31588E+05	27.492
1250.0	57.745	-1.87233E+05	370.25	-6.50041E+05	27.163
1300.0	57.781	-1.84345E+05	372.51	-6.68611E+05	26.864
1350.0	57.810	-1.81455E+05	374.69	-6.87291E+05	26.592
1400.0	57.833	-1.78564E+05	376.80	-7.06079E+05	26.343
1450.0	57.849	-1.75672E+05	378.83	-7.24970E+05	26.116
1500.0	57.861	-1.72779E+05	380.79	-7.43960E+05	25.906
1550.0	57.858	-1.69886E+05	382.68	-7.63047E+05	25.714
1600.0	57.858	-1.66993E+05	384.52	-7.82228E+05	25.536
1650.0	57.860	-1.64100E+05	386.30	-8.01499E+05	25.373
1700.0	57.866	-1.61207E+05	388.03	-8.20857E+05	25.221
1750.0	57.874	-1.58314E+05	389.71	-8.40301E+05	25.081
1800.0	57.884	-1.55420E+05	391.34	-8.59827E+05	24.951
1850.0	57.896	-1.52525E+05	392.92	-8.79434E+05	24.830
1900.0	57.909	-1.49630E+05	394.47	-8.99119E+05	24.718
1950.0	57.925	-1.46734E+05	395.97	-9.18880E+05	24.613
2000.0	57.941	-1.43838E+05	397.44	-9.38715E+05	24.516
2050.0	57.960	-1.40940E+05	398.87	-9.58623E+05	24.425
2100.0	57.979	-1.38042E+05	400.27	-9.78602E+05	24.341
2150.0	57.999	-1.35142E+05	401.63	-9.98649E+05	24.262
2200.0	58.021	-1.32242E+05	402.96	-1.01876E+06	24.188
2250.0	58.043	-1.29340E+05	404.27	-1.03895E+06	24.119
2300.0	58.067	-1.26437E+05	405.54	-1.05919E+06	24.054
2350.0	58.091	-1.23534E+05	406.79	-1.07950E+06	23.994
2400.0	58.116	-1.20628E+05	408.02	-1.09987E+06	23.937
2450.0	58.142	-1.17722E+05	409.22	-1.12030E+06	23.884
2500.0	58.169	-1.14814E+05	410.39	-1.14079E+06	23.835
2550.0	58.196	-1.11905E+05	411.54	-1.16134E+06	23.788
2600.0	58.224	-1.08994E+05	412.67	-1.18194E+06	23.745
2650.0	58.252	-1.06083E+05	413.78	-1.20261E+06	23.704
2700.0	58.282	-1.03169E+05	414.87	-1.22332E+06	23.666
2750.0	58.311	-1.00254E+05	415.94	-1.24409E+06	23.630
2800.0	58.341	-97338.	416.99	-1.26492E+06	23.597
2850.0	58.372	-94420.	418.03	-1.28579E+06	23.565
2900.0	58.403	-91501.	419.04	-1.30672E+06	23.536
2950.0	58.435	-88580.	420.04	-1.32770E+06	23.508
3000.0	58.467	-85657.	421.02	-1.34872E+06	23.483

AlCl3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	71.872	-5.84505E+05	314.40	-6.78244E+05	118.82
300.00	71.979	-5.84372E+05	314.85	-6.78826E+05	118.19
350.00	74.354	-5.80710E+05	326.13	-6.94856E+05	103.70
400.00	76.028	-5.76948E+05	336.18	-7.11419E+05	92.899
450.00	77.277	-5.73114E+05	345.21	-7.28457E+05	84.555
500.00	78.245	-5.69225E+05	353.40	-7.45926E+05	77.924
550.00	79.013	-5.65293E+05	360.90	-7.63786E+05	72.536
600.00	79.633	-5.61326E+05	367.80	-7.82005E+05	68.078
650.00	80.133	-5.57331E+05	374.19	-8.00557E+05	64.332
700.00	80.536	-5.53314E+05	380.15	-8.19417E+05	61.144
750.00	80.854	-5.49279E+05	385.72	-8.38566E+05	58.401
800.00	81.099	-5.45230E+05	390.94	-8.57983E+05	56.019
850.00	81.329	-5.41169E+05	395.87	-8.77655E+05	53.933
900.00	81.521	-5.37098E+05	400.52	-8.97565E+05	52.092
950.00	81.684	-5.33018E+05	404.93	-9.17703E+05	50.458
1000.0	81.823	-5.28930E+05	409.12	-9.38055E+05	48.998
1050.0	81.943	-5.24836E+05	413.12	-9.58612E+05	47.687
1100.0	82.047	-5.20736E+05	416.93	-9.79364E+05	46.505
1150.0	82.138	-5.16631E+05	420.58	-1.00030E+06	45.434
1200.0	82.218	-5.12522E+05	424.08	-1.02142E+06	44.460
1250.0	82.288	-5.08410E+05	427.44	-1.04271E+06	43.571
1300.0	82.351	-5.04294E+05	430.67	-1.06416E+06	42.757
1350.0	82.407	-5.00175E+05	433.78	-1.08577E+06	42.010
1400.0	82.457	-4.96053E+05	436.77	-1.10754E+06	41.322
1450.0	82.502	-4.91929E+05	439.67	-1.12945E+06	40.686
1500.0	82.543	-4.87803E+05	442.47	-1.15150E+06	40.098
1550.0	82.580	-4.83675E+05	445.17	-1.17369E+06	39.552
1600.0	82.613	-4.79545E+05	447.80	-1.19602E+06	39.045
1650.0	82.644	-4.75414E+05	450.34	-1.21847E+06	38.573
1700.0	82.672	-4.71281E+05	452.81	-1.24105E+06	38.132
1750.0	82.698	-4.67147E+05	455.20	-1.26375E+06	37.720
1800.0	82.721	-4.63011E+05	457.53	-1.28657E+06	37.334
1850.0	82.743	-4.58874E+05	459.80	-1.30950E+06	36.973
1900.0	82.763	-4.54737E+05	462.01	-1.33255E+06	36.633
1950.0	82.782	-4.50598E+05	464.16	-1.35570E+06	36.314
2000.0	82.799	-4.46459E+05	466.25	-1.37896E+06	36.014
2050.0	82.815	-4.42318E+05	468.30	-1.40233E+06	35.731
2100.0	82.830	-4.38177E+05	470.29	-1.42579E+06	35.464
2150.0	82.844	-4.34035E+05	472.24	-1.44936E+06	35.211
2200.0	82.858	-4.29893E+05	474.15	-1.47302E+06	34.973
2250.0	82.870	-4.25750E+05	476.01	-1.49677E+06	34.747
2300.0	82.881	-4.21606E+05	477.83	-1.52062E+06	34.533
2350.0	82.892	-4.17461E+05	479.61	-1.54455E+06	34.331
2400.0	82.902	-4.13317E+05	481.36	-1.56858E+06	34.138
2450.0	82.912	-4.09171E+05	483.07	-1.59269E+06	33.956
2500.0	82.921	-4.05025E+05	484.74	-1.61688E+06	33.782
2550.0	82.930	-4.00879E+05	486.39	-1.64116E+06	33.617
2600.0	82.938	-3.96732E+05	488.00	-1.66552E+06	33.460
2650.0	82.945	-3.92585E+05	489.58	-1.68996E+06	33.310
2700.0	82.953	-3.88438E+05	491.13	-1.71448E+06	33.168
2750.0	82.960	-3.84290E+05	492.65	-1.73907E+06	33.032
2800.0	82.966	-3.80142E+05	494.14	-1.76374E+06	32.902
2850.0	82.972	-3.75993E+05	495.61	-1.78849E+06	32.778
2900.0	82.978	-3.71845E+05	497.05	-1.81330E+06	32.660
2950.0	82.984	-3.67696E+05	498.47	-1.83819E+06	32.547
3000.0	82.989	-3.63546E+05	499.87	-1.86315E+06	32.440

AlCl₃

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	248.91	-2.09200E+06	376.56	-2.20427E+06	386.17
300.00	249.28	-2.09154E+06	378.10	-2.20497E+06	383.91
350.00	255.74	-2.07889E+06	417.09	-2.22487E+06	332.04
400.00	259.16	-2.06601E+06	451.47	-2.24660E+06	293.37
450.00	263.16	-2.05296E+06	482.21	-2.26996E+06	263.48
500.00	269.66	-2.03966E+06	510.24	-2.29478E+06	239.73
550.00	274.86	-2.02604E+06	536.19	-2.32095E+06	220.42
600.00	279.49	-2.01218E+06	560.31	-2.34837E+06	204.44
650.00	283.77	-1.99810E+06	582.85	-2.37695E+06	191.01
700.00	287.86	-1.98381E+06	604.03	-2.40663E+06	179.58
750.00	291.85	-1.96931E+06	624.03	-2.43733E+06	169.75
800.00	295.81	-1.95462E+06	642.99	-2.46901E+06	161.21
850.00	299.58	-1.93973E+06	661.04	-2.50162E+06	153.73
900.00	302.88	-1.92467E+06	678.26	-2.53510E+06	147.13
950.00	305.90	-1.90945E+06	694.72	-2.56943E+06	141.27
1000.0	308.78	-1.89408E+06	710.48	-2.60456E+06	136.05
1050.0	311.63	-1.87857E+06	725.62	-2.64047E+06	131.35
1100.0	314.53	-1.86292E+06	740.18	-2.67712E+06	127.12
1150.0	317.21	-1.84712E+06	754.22	-2.71448E+06	123.29
1200.0	319.69	-1.83120E+06	767.77	-2.75253E+06	119.81
1250.0	321.99	-1.81516E+06	780.87	-2.79125E+06	116.64
1300.0	324.13	-1.79901E+06	793.54	-2.83061E+06	113.73
1350.0	326.13	-1.78275E+06	805.81	-2.87060E+06	111.07
1400.0	328.00	-1.76639E+06	817.71	-2.91119E+06	108.61
1450.0	329.74	-1.74995E+06	829.25	-2.95236E+06	106.35
1500.0	331.36	-1.73342E+06	840.46	-2.99411E+06	104.26
1550.0	332.88	-1.71682E+06	851.35	-3.03640E+06	102.32
1600.0	334.29	-1.70014E+06	861.94	-3.07924E+06	100.52
1650.0	335.67	-1.68339E+06	872.24	-3.12259E+06	98.850
1700.0	336.97	-1.66657E+06	882.28	-3.16646E+06	97.291
1750.0	338.19	-1.64969E+06	892.07	-3.21082E+06	95.835
1800.0	339.33	-1.63275E+06	901.61	-3.25566E+06	94.474
1850.0	340.39	-1.61576E+06	910.93	-3.30097E+06	93.200
1900.0	341.37	-1.59872E+06	920.02	-3.34675E+06	92.006
1950.0	342.27	-1.58163E+06	928.90	-3.39297E+06	90.885
2000.0	343.09	-1.56449E+06	937.57	-3.43963E+06	89.832

Al2Cl9K3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	337.32	-2.86018E+06	468.61	-2.99990E+06	525.56
300.00	337.61	-2.85956E+06	470.70	-3.00077E+06	522.47
350.00	345.35	-2.84248E+06	523.32	-3.02565E+06	451.54
400.00	352.96	-2.82503E+06	569.93	-3.05300E+06	398.67
450.00	360.29	-2.80719E+06	611.93	-3.08256E+06	357.81
500.00	367.28	-2.78900E+06	650.26	-3.11413E+06	325.32
550.00	373.89	-2.77047E+06	685.58	-3.14754E+06	298.92
600.00	380.10	-2.75162E+06	718.38	-3.18265E+06	277.07
650.00	385.89	-2.73247E+06	749.04	-3.21934E+06	258.70
700.00	391.25	-2.71304E+06	777.83	-3.25752E+06	243.07
750.00	396.17	-2.69335E+06	805.00	-3.29710E+06	229.62
800.00	400.66	-2.67343E+06	830.71	-3.33800E+06	217.94
850.00	404.11	-2.65331E+06	855.10	-3.38015E+06	207.71
900.00	407.94	-2.63301E+06	878.31	-3.42349E+06	198.69
950.00	412.14	-2.61251E+06	900.47	-3.46796E+06	190.68
1000.0	416.73	-2.59179E+06	921.73	-3.51352E+06	183.52

AlCl4Na

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	154.98	-1.14223E+06	188.28	-1.19837E+06	209.94
300.00	155.15	-1.14195E+06	189.24	-1.19872E+06	208.71
350.00	159.97	-1.13407E+06	213.52	-1.20880E+06	180.40
400.00	164.81	-1.12595E+06	235.19	-1.22003E+06	159.31
450.00	169.52	-1.11759E+06	254.88	-1.23228E+06	143.04
500.00	174.05	-1.10900E+06	272.98	-1.24549E+06	130.11
550.00	178.36	-1.10019E+06	289.77	-1.25956E+06	119.62
600.00	182.42	-1.09117E+06	305.47	-1.27445E+06	110.95
650.00	186.21	-1.08195E+06	320.22	-1.29009E+06	103.67
700.00	189.12	-1.07256E+06	334.13	-1.30645E+06	97.486
750.00	191.47	-1.06304E+06	347.27	-1.32349E+06	92.174
800.00	193.51	-1.05342E+06	359.69	-1.34117E+06	87.567
850.00	195.40	-1.04369E+06	371.48	-1.35945E+06	83.540
900.00	197.28	-1.03388E+06	382.70	-1.37831E+06	79.993
950.00	198.32	-1.02399E+06	393.39	-1.39771E+06	76.850
1000.0	199.14	-1.01405E+06	403.59	-1.41764E+06	74.048
1050.0	199.79	-1.00408E+06	413.32	-1.43806E+06	71.538
1100.0	200.32	-9.94073E+05	422.63	-1.45896E+06	69.279
1150.0	200.79	-9.84045E+05	431.54	-1.48032E+06	67.236
1200.0	201.22	-9.73994E+05	440.10	-1.50211E+06	65.384
1250.0	201.64	-9.63923E+05	448.32	-1.52432E+06	63.696
1300.0	202.07	-9.53830E+05	456.24	-1.54694E+06	62.155
1350.0	202.40	-9.43718E+05	463.87	-1.56994E+06	60.743
1400.0	202.73	-9.33590E+05	471.24	-1.59332E+06	59.446
1450.0	203.03	-9.23446E+05	478.36	-1.61706E+06	58.251
1500.0	203.30	-9.13288E+05	485.24	-1.64115E+06	57.149
1550.0	203.55	-9.03116E+05	491.91	-1.66558E+06	56.128
1600.0	203.76	-8.92933E+05	498.38	-1.69034E+06	55.183
1650.0	203.93	-8.82741E+05	504.65	-1.71542E+06	54.304
1700.0	204.06	-8.72541E+05	510.74	-1.74080E+06	53.487
1750.0	204.14	-8.62336E+05	516.66	-1.76649E+06	52.725
1800.0	204.18	-8.52128E+05	522.41	-1.79247E+06	52.015
1850.0	204.28	-8.41916E+05	528.01	-1.81873E+06	51.350
1900.0	204.39	-8.31699E+05	533.45	-1.84526E+06	50.729
1950.0	204.49	-8.21477E+05	538.77	-1.87207E+06	50.146
2000.0	204.60	-8.11250E+05	543.94	-1.89914E+06	49.599

AlCl₆Na₃

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	244.14	-1.97900E+06	347.27	-2.08254E+06	364.84
300.00	244.32	-1.97855E+06	348.78	-2.08318E+06	362.71
350.00	249.36	-1.96621E+06	386.82	-2.10159E+06	313.64
400.00	254.37	-1.95361E+06	420.45	-2.12179E+06	277.07
450.00	259.28	-1.94077E+06	450.69	-2.14358E+06	248.81
500.00	264.04	-1.92769E+06	478.26	-2.16682E+06	226.36
550.00	268.62	-1.91437E+06	503.64	-2.19137E+06	208.11
600.00	273.02	-1.90083E+06	527.20	-2.21715E+06	193.02
650.00	277.21	-1.88707E+06	549.22	-2.24407E+06	180.33
700.00	281.19	-1.87311E+06	569.91	-2.27205E+06	169.54
750.00	284.96	-1.85896E+06	589.44	-2.30104E+06	160.25
800.00	288.52	-1.84462E+06	607.95	-2.33098E+06	152.19

AlClO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.349	-3.01564E+05	252.37	-3.76809E+05	66.014
300.00	50.433	-3.01471E+05	252.68	-3.77276E+05	65.688
350.00	52.364	-2.98898E+05	260.61	-3.90112E+05	58.220
400.00	53.818	-2.96242E+05	267.70	-4.03323E+05	52.667
450.00	54.973	-2.93521E+05	274.11	-4.16871E+05	48.388
500.00	55.927	-2.90748E+05	279.95	-4.30725E+05	44.996
550.00	56.732	-2.87931E+05	285.32	-4.44858E+05	42.248
600.00	57.421	-2.85077E+05	290.29	-4.59250E+05	39.980
650.00	58.014	-2.82191E+05	294.91	-4.73881E+05	38.081
700.00	58.526	-2.79277E+05	299.23	-4.88736E+05	36.469
750.00	58.964	-2.76339E+05	303.28	-5.03800E+05	35.087
800.00	59.336	-2.73382E+05	307.10	-5.19060E+05	33.890
850.00	59.646	-2.70407E+05	310.71	-5.34506E+05	32.846
900.00	59.895	-2.67418E+05	314.12	-5.50128E+05	31.928
950.00	60.135	-2.64417E+05	317.37	-5.65915E+05	31.115
1000.0	60.340	-2.61405E+05	320.46	-5.81862E+05	30.393
1050.0	60.517	-2.58384E+05	323.40	-5.97959E+05	29.746
1100.0	60.671	-2.55354E+05	326.22	-6.14200E+05	29.165
1150.0	60.806	-2.52317E+05	328.92	-6.30579E+05	28.641
1200.0	60.925	-2.49273E+05	331.51	-6.47091E+05	28.166
1250.0	61.030	-2.46225E+05	334.00	-6.63729E+05	27.735
1300.0	61.124	-2.43171E+05	336.40	-6.80489E+05	27.342
1350.0	61.207	-2.40112E+05	338.71	-6.97367E+05	26.982
1400.0	61.282	-2.37050E+05	340.93	-7.14359E+05	26.652
1450.0	61.350	-2.33984E+05	343.09	-7.31460E+05	26.349
1500.0	61.412	-2.30915E+05	345.17	-7.48666E+05	26.070
1550.0	61.467	-2.27843E+05	347.18	-7.65975E+05	25.813
1600.0	61.518	-2.24768E+05	349.13	-7.83383E+05	25.574
1650.0	61.565	-2.21691E+05	351.03	-8.00888E+05	25.353
1700.0	61.608	-2.18612E+05	352.87	-8.18485E+05	25.148
1750.0	61.647	-2.15531E+05	354.65	-8.36173E+05	24.958
1800.0	61.683	-2.12447E+05	356.39	-8.53950E+05	24.780
1850.0	61.717	-2.09362E+05	358.08	-8.71812E+05	24.615
1900.0	61.748	-2.06276E+05	359.73	-8.89757E+05	24.461
1950.0	61.777	-2.03188E+05	361.33	-9.07784E+05	24.316
2000.0	61.804	-2.00098E+05	362.90	-9.25889E+05	24.181
2050.0	61.829	-1.97007E+05	364.42	-9.44073E+05	24.055
2100.0	61.852	-1.93915E+05	365.91	-9.62331E+05	23.936
2150.0	61.874	-1.90822E+05	367.37	-9.80663E+05	23.825
2200.0	61.895	-1.87728E+05	368.79	-9.99067E+05	23.720
2250.0	61.914	-1.84633E+05	370.18	-1.01754E+06	23.622
2300.0	61.933	-1.81536E+05	371.54	-1.03608E+06	23.530
2350.0	61.950	-1.78439E+05	372.87	-1.05470E+06	23.443
2400.0	61.966	-1.75341E+05	374.18	-1.07337E+06	23.361
2450.0	61.982	-1.72243E+05	375.46	-1.09211E+06	23.284
2500.0	61.996	-1.69143E+05	376.71	-1.11092E+06	23.211
2550.0	62.010	-1.66043E+05	377.94	-1.12978E+06	23.142
2600.0	62.023	-1.62942E+05	379.14	-1.14871E+06	23.077
2650.0	62.035	-1.59841E+05	380.32	-1.16770E+06	23.016
2700.0	62.047	-1.56739E+05	381.48	-1.18674E+06	22.958
2750.0	62.059	-1.53636E+05	382.62	-1.20585E+06	22.904
2800.0	62.069	-1.50533E+05	383.74	-1.22500E+06	22.852
2850.0	62.079	-1.47429E+05	384.84	-1.24422E+06	22.803
2900.0	62.089	-1.44325E+05	385.92	-1.26349E+06	22.757
2950.0	62.098	-1.41220E+05	386.98	-1.28281E+06	22.714
3000.0	62.107	-1.38115E+05	388.02	-1.30219E+06	22.672

AlCl₃<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	68.867	-4.02309E+05	316.89	-4.96789E+05	87.033
300.00	68.995	-4.02181E+05	317.31	-4.97376E+05	86.599
350.00	71.826	-3.98656E+05	328.18	-5.13518E+05	76.636
400.00	73.820	-3.95013E+05	337.90	-5.30174E+05	69.232
450.00	75.311	-3.91283E+05	346.69	-5.47293E+05	63.526
500.00	76.477	-3.87487E+05	354.69	-5.64830E+05	59.006
550.00	77.419	-3.83639E+05	362.02	-5.82750E+05	55.344
600.00	78.196	-3.79748E+05	368.79	-6.01023E+05	52.322
650.00	78.846	-3.75821E+05	375.08	-6.19621E+05	49.792
700.00	79.396	-3.71865E+05	380.94	-6.38523E+05	47.646
750.00	79.862	-3.67883E+05	386.43	-6.57709E+05	45.806
800.00	80.255	-3.63880E+05	391.60	-6.77161E+05	44.213
850.00	80.584	-3.59859E+05	396.48	-6.96864E+05	42.823
900.00	80.855	-3.55822E+05	401.09	-7.16805E+05	41.601
950.00	81.073	-3.51774E+05	405.47	-7.36970E+05	40.520
1000.0	81.240	-3.47716E+05	409.63	-7.57348E+05	39.559
1050.0	81.413	-3.43650E+05	413.60	-7.77930E+05	38.699
1100.0	81.563	-3.39575E+05	417.39	-7.98705E+05	37.926
1150.0	81.694	-3.35494E+05	421.02	-8.19666E+05	37.229
1200.0	81.809	-3.31406E+05	424.50	-8.40805E+05	36.598
1250.0	81.911	-3.27313E+05	427.84	-8.62114E+05	36.025
1300.0	82.002	-3.23215E+05	431.05	-8.83586E+05	35.502
1350.0	82.082	-3.19113E+05	434.15	-9.05217E+05	35.024
1400.0	82.154	-3.15007E+05	437.14	-9.27000E+05	34.586
1450.0	82.220	-3.10898E+05	440.02	-9.48929E+05	34.183
1500.0	82.278	-3.06785E+05	442.81	-9.71000E+05	33.812
1550.0	82.332	-3.02670E+05	445.51	-9.93209E+05	33.470
1600.0	82.380	-2.98552E+05	448.12	-1.01555E+06	33.153
1650.0	82.424	-2.94432E+05	450.66	-1.03802E+06	32.860
1700.0	82.465	-2.90310E+05	453.12	-1.06061E+06	32.588
1750.0	82.502	-2.86186E+05	455.51	-1.08333E+06	32.335
1800.0	82.536	-2.82060E+05	457.84	-1.10616E+06	32.099
1850.0	82.567	-2.77932E+05	460.10	-1.12911E+06	31.880
1900.0	82.596	-2.73803E+05	462.30	-1.15217E+06	31.675
1950.0	82.623	-2.69672E+05	464.45	-1.17534E+06	31.483
2000.0	82.648	-2.65541E+05	466.54	-1.19862E+06	31.304
2050.0	82.671	-2.61408E+05	468.58	-1.22200E+06	31.136
2100.0	82.693	-2.57273E+05	470.57	-1.24547E+06	30.979
2150.0	82.713	-2.53138E+05	472.52	-1.26905E+06	30.831
2200.0	82.732	-2.49002E+05	474.42	-1.29273E+06	30.692
2250.0	82.750	-2.44865E+05	476.28	-1.31649E+06	30.562
2300.0	82.766	-2.40727E+05	478.10	-1.34035E+06	30.440
2350.0	82.782	-2.36589E+05	479.88	-1.36430E+06	30.324
2400.0	82.796	-2.32449E+05	481.62	-1.38834E+06	30.216
2450.0	82.810	-2.28309E+05	483.33	-1.41246E+06	30.113
2500.0	82.823	-2.24168E+05	485.00	-1.43667E+06	30.017
2550.0	82.836	-2.20027E+05	486.64	-1.46096E+06	29.926
2600.0	82.847	-2.15885E+05	488.25	-1.48534E+06	29.840
2650.0	82.858	-2.11742E+05	489.83	-1.50979E+06	29.759
2700.0	82.869	-2.07599E+05	491.38	-1.53432E+06	29.682
2750.0	82.878	-2.03455E+05	492.90	-1.55892E+06	29.610
2800.0	82.888	-1.99311E+05	494.39	-1.58361E+06	29.542
2850.0	82.897	-1.95166E+05	495.86	-1.60836E+06	29.477
2900.0	82.905	-1.91021E+05	497.30	-1.63319E+06	29.416
2950.0	82.913	-1.86876E+05	498.72	-1.65809E+06	29.359
3000.0	82.921	-1.82730E+05	500.11	-1.68306E+06	29.304

Al₂CoO₄

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	130.97	-1.94891E+06	102.05	-1.97933E+06	346.76
300.00	130.94	-1.94867E+06	102.86	-1.97952E+06	344.66
350.00	136.04	-1.94203E+06	123.31	-1.98519E+06	296.27
400.00	145.69	-1.93499E+06	142.10	-1.99183E+06	260.10
450.00	153.68	-1.92749E+06	159.75	-1.99938E+06	232.08
500.00	156.72	-1.91970E+06	176.15	-2.00778E+06	209.75
550.00	160.50	-1.91177E+06	191.28	-2.01697E+06	191.55
600.00	163.48	-1.90367E+06	205.37	-2.02689E+06	176.45
650.00	165.96	-1.89543E+06	218.56	-2.03749E+06	163.73
700.00	168.08	-1.88708E+06	230.94	-2.04873E+06	152.87
750.00	169.93	-1.87863E+06	242.60	-2.06058E+06	143.51
800.00	171.61	-1.87009E+06	253.62	-2.07298E+06	135.35
850.00	173.16	-1.86147E+06	264.07	-2.08593E+06	128.18
900.00	174.63	-1.85277E+06	274.01	-2.09938E+06	121.84
950.00	176.05	-1.84400E+06	283.49	-2.11332E+06	116.20
1000.0	177.43	-1.83517E+06	292.56	-2.12772E+06	111.14
1050.0	178.80	-1.82626E+06	301.25	-2.14257E+06	106.58
1100.0	180.17	-1.81729E+06	309.60	-2.15784E+06	102.46
1150.0	181.49	-1.80825E+06	317.63	-2.17353E+06	98.722
1200.0	182.81	-1.79914E+06	325.39	-2.18960E+06	95.308
1250.0	184.12	-1.78997E+06	332.88	-2.20606E+06	92.184
1300.0	185.43	-1.78073E+06	340.12	-2.22289E+06	89.314
1350.0	186.73	-1.77142E+06	347.15	-2.24007E+06	86.671
1400.0	188.03	-1.76205E+06	353.96	-2.25760E+06	84.230
1450.0	189.33	-1.75262E+06	360.58	-2.27546E+06	81.969
1500.0	190.62	-1.74312E+06	367.02	-2.29365E+06	79.870

Al₂CuO₄

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	127.69	-1.94682E+06	99.689	-1.97654E+06	346.27
300.00	128.22	-1.94658E+06	100.48	-1.97672E+06	344.17
350.00	139.91	-1.93986E+06	121.18	-1.98227E+06	295.83
400.00	148.10	-1.93264E+06	140.43	-1.98882E+06	259.71
450.00	154.25	-1.92508E+06	158.24	-1.99629E+06	231.72
500.00	159.14	-1.91724E+06	174.76	-2.00462E+06	209.42
550.00	163.20	-1.90918E+06	190.12	-2.01375E+06	191.24
600.00	166.69	-1.90093E+06	204.47	-2.02361E+06	176.17
650.00	169.79	-1.89252E+06	217.94	-2.03418E+06	163.46
700.00	172.60	-1.88396E+06	230.63	-2.04540E+06	152.63
750.00	175.19	-1.87526E+06	242.63	-2.05723E+06	143.27
800.00	177.63	-1.86644E+06	254.01	-2.06965E+06	135.13
850.00	179.94	-1.85750E+06	264.85	-2.08262E+06	127.98
900.00	182.15	-1.84845E+06	275.20	-2.09612E+06	121.65
950.00	184.28	-1.83929E+06	285.10	-2.11013E+06	116.02
1000.0	186.36	-1.83002E+06	294.61	-2.12463E+06	110.98
1050.0	188.38	-1.82065E+06	303.75	-2.13959E+06	106.44
1100.0	190.35	-1.81118E+06	312.56	-2.15500E+06	102.33
1150.0	192.30	-1.80162E+06	321.06	-2.17084E+06	98.600
1200.0	194.21	-1.79195E+06	329.29	-2.18710E+06	95.200

AlCuS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	51.597	2.82504E+05	292.49	1.95299E+05	-34.215
300.00	51.665	2.82599E+05	292.81	1.94757E+05	-33.909
350.00	53.136	2.85222E+05	300.89	1.79911E+05	-26.850
400.00	54.143	2.87905E+05	308.05	1.64684E+05	-21.505
450.00	54.874	2.90632E+05	314.48	1.49118E+05	-17.309
500.00	55.428	2.93390E+05	320.29	1.33246E+05	-13.920
550.00	55.862	2.96172E+05	325.59	1.17097E+05	-11.121
600.00	56.211	2.98975E+05	330.47	1.00694E+05	-8.7660
650.00	56.494	3.01792E+05	334.98	84057.	-6.7547
700.00	56.727	3.04623E+05	339.17	67202.	-5.0145
750.00	56.919	3.07464E+05	343.09	50144.	-3.4923
800.00	57.077	3.10314E+05	346.77	32896.	-2.1479
850.00	57.206	3.13172E+05	350.24	15470.	-0.95067
900.00	57.308	3.16035E+05	353.51	-2124.0	0.12327
950.00	57.387	3.18902E+05	356.61	-19878.	1.0929
1000.0	57.444	3.21773E+05	359.56	-37782.	1.9735
1050.0	57.516	3.24647E+05	362.36	-55831.	2.7774
1100.0	57.579	3.27524E+05	365.04	-74016.	3.5147
1150.0	57.633	3.30405E+05	367.60	-92333.	4.1938
1200.0	57.680	3.33288E+05	370.05	-1.10774E+05	4.8218
1250.0	57.722	3.36173E+05	372.41	-1.29336E+05	5.4045
1300.0	57.759	3.39060E+05	374.67	-1.48013E+05	5.9471
1350.0	57.791	3.41948E+05	376.85	-1.66802E+05	6.4538
1400.0	57.820	3.44839E+05	378.95	-1.85697E+05	6.9283
1450.0	57.846	3.47730E+05	380.98	-2.04696E+05	7.3738
1500.0	57.870	3.50623E+05	382.95	-2.23795E+05	7.7930
1550.0	57.891	3.53517E+05	384.84	-2.42990E+05	8.1885
1600.0	57.910	3.56412E+05	386.68	-2.62278E+05	8.5623
1650.0	57.927	3.59308E+05	388.46	-2.81657E+05	8.9163
1700.0	57.942	3.62205E+05	390.19	-3.01123E+05	9.2522
1750.0	57.957	3.65102E+05	391.87	-3.20675E+05	9.5714
1800.0	57.970	3.68001E+05	393.51	-3.40310E+05	9.8753
1850.0	57.982	3.70899E+05	395.09	-3.60025E+05	10.165
1900.0	57.993	3.73799E+05	396.64	-3.79819E+05	10.442
1950.0	58.003	3.76699E+05	398.15	-3.99689E+05	10.706
2000.0	58.012	3.79599E+05	399.62	-4.19633E+05	10.959
2050.0	58.021	3.82500E+05	401.05	-4.39650E+05	11.202
2100.0	58.029	3.85401E+05	402.45	-4.59737E+05	11.435
2150.0	58.037	3.88303E+05	403.81	-4.79894E+05	11.659
2200.0	58.044	3.91205E+05	405.15	-5.00118E+05	11.874
2250.0	58.050	3.94107E+05	406.45	-5.20408E+05	12.081
2300.0	58.057	3.97010E+05	407.73	-5.40762E+05	12.281
2350.0	58.062	3.99913E+05	408.98	-5.61180E+05	12.473
2400.0	58.068	4.02816E+05	410.20	-5.81660E+05	12.659
2450.0	58.073	4.05720E+05	411.40	-6.02199E+05	12.839
2500.0	58.078	4.08623E+05	412.57	-6.22799E+05	13.012
2550.0	58.083	4.11527E+05	413.72	-6.43456E+05	13.180
2600.0	58.088	4.14432E+05	414.85	-6.64170E+05	13.343
2650.0	58.092	4.17336E+05	415.95	-6.84940E+05	13.501
2700.0	58.096	4.20241E+05	417.04	-7.05765E+05	13.654
2750.0	58.100	4.23146E+05	418.11	-7.26644E+05	13.802
2800.0	58.104	4.26051E+05	419.15	-7.47575E+05	13.946
2850.0	58.108	4.28956E+05	420.18	-7.68559E+05	14.086
2900.0	58.112	4.31862E+05	421.19	-7.89593E+05	14.222
2950.0	58.116	4.34767E+05	422.18	-8.10678E+05	14.354
3000.0	58.119	4.37673E+05	423.16	-8.31811E+05	14.483

AlCuS2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.500	1.65184E+05	309.56	72890.	-12.770
300.00	75.605	1.65324E+05	310.03	72316.	-12.591
350.00	77.945	1.69166E+05	321.87	56513.	-8.4339
400.00	79.631	1.73108E+05	332.39	40152.	-5.2431
450.00	80.913	1.77123E+05	341.85	23292.	-2.7036
500.00	81.923	1.81195E+05	350.43	5981.7	-0.6248
550.00	82.737	1.85312E+05	358.27	-11739.	1.1148
600.00	83.400	1.89466E+05	365.50	-29835.	2.5973
650.00	83.940	1.93650E+05	372.20	-48280.	3.8797
700.00	84.376	1.97858E+05	378.44	-67048.	5.0030
750.00	84.720	2.02086E+05	384.27	-86117.	5.9976
800.00	84.982	2.06329E+05	389.75	-1.05469E+05	6.8862
850.00	85.238	2.10584E+05	394.91	-1.25086E+05	7.6867
900.00	85.452	2.14852E+05	399.78	-1.44955E+05	8.4127
950.00	85.635	2.19129E+05	404.41	-1.65061E+05	9.0754
1000.0	85.791	2.23415E+05	408.81	-1.85392E+05	9.6836
1050.0	85.926	2.27708E+05	413.00	-2.05938E+05	10.245
1100.0	86.043	2.32007E+05	417.00	-2.26688E+05	10.764
1150.0	86.146	2.36312E+05	420.82	-2.47634E+05	11.248
1200.0	86.237	2.40621E+05	424.49	-2.68768E+05	11.699
1250.0	86.317	2.44935E+05	428.01	-2.90081E+05	12.122
1300.0	86.389	2.49253E+05	431.40	-3.11567E+05	12.519
1350.0	86.453	2.53574E+05	434.66	-3.33219E+05	12.893
1400.0	86.511	2.57898E+05	437.81	-3.55031E+05	13.246
1450.0	86.563	2.62225E+05	440.84	-3.76998E+05	13.581
1500.0	86.610	2.66554E+05	443.78	-3.99114E+05	13.898
1550.0	86.653	2.70886E+05	446.62	-4.21374E+05	14.200
1600.0	86.692	2.75220E+05	449.37	-4.43774E+05	14.487
1650.0	86.727	2.79555E+05	452.04	-4.66310E+05	14.762
1700.0	86.760	2.83892E+05	454.63	-4.88977E+05	15.024
1750.0	86.790	2.88231E+05	457.14	-5.11772E+05	15.275
1800.0	86.818	2.92571E+05	459.59	-5.34690E+05	15.516
1850.0	86.844	2.96913E+05	461.97	-5.57730E+05	15.747
1900.0	86.867	3.01256E+05	464.29	-5.80886E+05	15.969
1950.0	86.889	3.05600E+05	466.54	-6.04157E+05	16.183
2000.0	86.910	3.09945E+05	468.74	-6.27539E+05	16.389
2050.0	86.929	3.14291E+05	470.89	-6.51030E+05	16.588
2100.0	86.946	3.18637E+05	472.98	-6.74627E+05	16.780
2150.0	86.963	3.22985E+05	475.03	-6.98328E+05	16.966
2200.0	86.978	3.27334E+05	477.03	-7.22130E+05	17.145
2250.0	86.993	3.31683E+05	478.98	-7.46030E+05	17.319
2300.0	87.006	3.36033E+05	480.90	-7.70027E+05	17.487
2350.0	87.019	3.40384E+05	482.77	-7.94119E+05	17.651
2400.0	87.030	3.44735E+05	484.60	-8.18303E+05	17.809
2450.0	87.041	3.49087E+05	486.39	-8.42578E+05	17.964
2500.0	87.052	3.53439E+05	488.15	-8.66942E+05	18.113
2550.0	87.061	3.57792E+05	489.88	-8.91393E+05	18.259
2600.0	87.070	3.62145E+05	491.57	-9.15929E+05	18.401
2650.0	87.079	3.66499E+05	493.23	-9.40549E+05	18.539
2700.0	87.087	3.70853E+05	494.85	-9.65251E+05	18.673
2750.0	87.094	3.75207E+05	496.45	-9.90034E+05	18.805
2800.0	87.101	3.79562E+05	498.02	-1.01490E+06	18.933
2850.0	87.107	3.83917E+05	499.56	-1.03984E+06	19.058
2900.0	87.113	3.88273E+05	501.08	-1.06485E+06	19.180
2950.0	87.119	3.92629E+05	502.57	-1.08994E+06	19.299
3000.0	87.124	3.96985E+05	504.03	-1.11511E+06	19.415

ALF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	31.926	-2.64060E+05	215.16	-3.28210E+05	57.500
300.00	31.968	-2.64001E+05	215.36	-3.28608E+05	57.214
350.00	32.935	-2.62377E+05	220.36	-3.39503E+05	50.667
400.00	33.663	-2.60711E+05	224.81	-3.50635E+05	45.787
450.00	34.242	-2.59013E+05	228.81	-3.61977E+05	42.016
500.00	34.721	-2.57289E+05	232.44	-3.73509E+05	39.019
550.00	35.125	-2.55542E+05	235.77	-3.85216E+05	36.584
600.00	35.473	-2.53777E+05	238.84	-3.97082E+05	34.568
650.00	35.772	-2.51996E+05	241.69	-4.09096E+05	32.875
700.00	36.031	-2.50201E+05	244.35	-4.21248E+05	31.433
750.00	36.254	-2.48393E+05	246.85	-4.33529E+05	30.193
800.00	36.444	-2.46576E+05	249.19	-4.45931E+05	29.116
850.00	36.604	-2.44749E+05	251.41	-4.58446E+05	28.172
900.00	36.732	-2.42916E+05	253.50	-4.71069E+05	27.339
950.00	36.876	-2.41076E+05	255.49	-4.83795E+05	26.600
1000.0	37.000	-2.39229E+05	257.39	-4.96617E+05	25.940
1050.0	37.107	-2.37376E+05	259.20	-5.09532E+05	25.347
1100.0	37.200	-2.35518E+05	260.92	-5.22535E+05	24.813
1150.0	37.283	-2.33656E+05	262.58	-5.35623E+05	24.328
1200.0	37.357	-2.31790E+05	264.17	-5.48792E+05	23.888
1250.0	37.424	-2.29920E+05	265.69	-5.62039E+05	23.486
1300.0	37.485	-2.28048E+05	267.16	-5.75361E+05	23.118
1350.0	37.540	-2.26172E+05	268.58	-5.88755E+05	22.780
1400.0	37.591	-2.24294E+05	269.95	-6.02218E+05	22.468
1450.0	37.639	-2.22413E+05	271.27	-6.15749E+05	22.181
1500.0	37.684	-2.20530E+05	272.54	-6.29344E+05	21.915
1550.0	37.727	-2.18645E+05	273.78	-6.43002E+05	21.668
1600.0	37.768	-2.16757E+05	274.98	-6.56721E+05	21.439
1650.0	37.807	-2.14868E+05	276.14	-6.70499E+05	21.226
1700.0	37.845	-2.12977E+05	277.27	-6.84335E+05	21.027
1750.0	37.882	-2.11083E+05	278.37	-6.98226E+05	20.840
1800.0	37.919	-2.09188E+05	279.43	-7.12171E+05	20.666
1850.0	37.954	-2.07291E+05	280.47	-7.26169E+05	20.503
1900.0	37.990	-2.05393E+05	281.49	-7.40218E+05	20.349
1950.0	38.025	-2.03493E+05	282.47	-7.54317E+05	20.205
2000.0	38.060	-2.01590E+05	283.44	-7.68465E+05	20.070
2050.0	38.095	-1.99687E+05	284.38	-7.82660E+05	19.942
2100.0	38.130	-1.97781E+05	285.30	-7.96902E+05	19.821
2150.0	38.166	-1.95873E+05	286.19	-8.11190E+05	19.707
2200.0	38.201	-1.93964E+05	287.07	-8.25521E+05	19.600
2250.0	38.238	-1.92053E+05	287.93	-8.39896E+05	19.498
2300.0	38.274	-1.90141E+05	288.77	-8.54314E+05	19.402
2350.0	38.311	-1.88226E+05	289.59	-8.68773E+05	19.310
2400.0	38.349	-1.86309E+05	290.40	-8.83273E+05	19.223
2450.0	38.387	-1.84391E+05	291.19	-8.97813E+05	19.141
2500.0	38.426	-1.82471E+05	291.97	-9.12392E+05	19.063
2550.0	38.465	-1.80548E+05	292.73	-9.27010E+05	18.989
2600.0	38.505	-1.78624E+05	293.48	-9.41665E+05	18.918
2650.0	38.546	-1.76698E+05	294.21	-9.56357E+05	18.850
2700.0	38.588	-1.74770E+05	294.93	-9.71086E+05	18.786
2750.0	38.630	-1.72839E+05	295.64	-9.85850E+05	18.725
2800.0	38.674	-1.70907E+05	296.34	-1.00065E+06	18.667
2850.0	38.718	-1.68972E+05	297.02	-1.01548E+06	18.611
2900.0	38.763	-1.67035E+05	297.70	-1.03035E+06	18.558
2950.0	38.809	-1.65095E+05	298.36	-1.04525E+06	18.507
3000.0	38.855	-1.63154E+05	299.01	-1.06019E+06	18.459

AlF2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	45.400	-6.31764E+05	264.92	-7.10750E+05	124.52
300.00	45.487	-6.31680E+05	265.20	-7.11240E+05	123.83
350.00	47.514	-6.29352E+05	272.37	-7.24683E+05	108.15
400.00	49.075	-6.26936E+05	278.82	-7.38465E+05	96.431
450.00	50.339	-6.24450E+05	284.68	-7.52555E+05	87.352
500.00	51.393	-6.21906E+05	290.04	-7.66925E+05	80.118
550.00	52.286	-6.19313E+05	294.98	-7.81552E+05	74.224
600.00	53.050	-6.16679E+05	299.56	-7.96417E+05	69.332
650.00	53.701	-6.14010E+05	303.83	-8.11503E+05	65.212
700.00	54.254	-6.11311E+05	307.84	-8.26796E+05	61.695
750.00	54.716	-6.08586E+05	311.59	-8.42282E+05	58.660
800.00	55.091	-6.05841E+05	315.14	-8.57952E+05	56.017
850.00	55.444	-6.03077E+05	318.49	-8.73793E+05	53.695
900.00	55.740	-6.00297E+05	321.67	-8.89798E+05	51.641
950.00	55.988	-5.97504E+05	324.69	-9.05957E+05	49.812
1000.0	56.199	-5.94699E+05	327.56	-9.22264E+05	48.173
1050.0	56.380	-5.91884E+05	330.31	-9.38711E+05	46.697
1100.0	56.535	-5.89061E+05	332.94	-9.55293E+05	45.362
1150.0	56.671	-5.86231E+05	335.45	-9.72003E+05	44.149
1200.0	56.788	-5.83395E+05	337.87	-9.88837E+05	43.042
1250.0	56.892	-5.80553E+05	340.19	-1.00579E+06	42.029
1300.0	56.983	-5.77706E+05	342.42	-1.02285E+06	41.098
1350.0	57.064	-5.74854E+05	344.57	-1.04003E+06	40.240
1400.0	57.136	-5.71999E+05	346.65	-1.05731E+06	39.448
1450.0	57.200	-5.69141E+05	348.66	-1.07469E+06	38.714
1500.0	57.258	-5.66279E+05	350.60	-1.09217E+06	38.032
1550.0	57.311	-5.63415E+05	352.48	-1.10975E+06	37.397
1600.0	57.358	-5.60548E+05	354.30	-1.12742E+06	36.806
1650.0	57.401	-5.57679E+05	356.06	-1.14518E+06	36.252
1700.0	57.441	-5.54808E+05	357.78	-1.16303E+06	35.735
1750.0	57.477	-5.51935E+05	359.44	-1.18096E+06	35.249
1800.0	57.510	-5.49061E+05	361.06	-1.19897E+06	34.792
1850.0	57.541	-5.46184E+05	362.64	-1.21706E+06	34.363
1900.0	57.570	-5.43307E+05	364.17	-1.23523E+06	33.958
1950.0	57.597	-5.40428E+05	365.67	-1.25348E+06	33.576
2000.0	57.622	-5.37547E+05	367.13	-1.27180E+06	33.215
2050.0	57.645	-5.34665E+05	368.55	-1.29019E+06	32.874
2100.0	57.667	-5.31783E+05	369.94	-1.30865E+06	32.550
2150.0	57.688	-5.28899E+05	371.30	-1.32718E+06	32.243
2200.0	57.709	-5.26014E+05	372.62	-1.34578E+06	31.952
2250.0	57.728	-5.23128E+05	373.92	-1.36445E+06	31.675
2300.0	57.746	-5.20241E+05	375.19	-1.38317E+06	31.412
2350.0	57.764	-5.17353E+05	376.43	-1.40196E+06	31.161
2400.0	57.781	-5.14465E+05	377.65	-1.42082E+06	30.922
2450.0	57.798	-5.11575E+05	378.84	-1.43973E+06	30.695
2500.0	57.814	-5.08685E+05	380.01	-1.45870E+06	30.477
2550.0	57.830	-5.05794E+05	381.15	-1.47773E+06	30.269
2600.0	57.846	-5.02902E+05	382.27	-1.49682E+06	30.071
2650.0	57.861	-5.00009E+05	383.38	-1.51596E+06	29.881
2700.0	57.877	-4.97116E+05	384.46	-1.53515E+06	29.699
2750.0	57.892	-4.94221E+05	385.52	-1.55440E+06	29.524
2800.0	57.907	-4.91326E+05	386.56	-1.57370E+06	29.357
2850.0	57.922	-4.88431E+05	387.59	-1.59306E+06	29.197
2900.0	57.937	-4.85534E+05	388.60	-1.61246E+06	29.043
2950.0	57.952	-4.82637E+05	389.59	-1.63192E+06	28.895
3000.0	57.966	-4.79739E+05	390.56	-1.65142E+06	28.753

AlF3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.182	-1.20928E+06	276.67	-1.29176E+06	226.31
300.00	62.332	-1.20916E+06	277.05	-1.29228E+06	225.00
350.00	65.782	-1.20595E+06	286.93	-1.30638E+06	194.96
400.00	68.427	-1.20260E+06	295.90	-1.32096E+06	172.49
450.00	70.553	-1.19912E+06	304.08	-1.33596E+06	155.07
500.00	72.311	-1.19555E+06	311.61	-1.35135E+06	141.17
550.00	73.785	-1.19189E+06	318.58	-1.36711E+06	129.83
600.00	75.027	-1.18817E+06	325.05	-1.38320E+06	120.42
650.00	76.069	-1.18439E+06	331.10	-1.39961E+06	112.47
700.00	76.930	-1.18057E+06	336.77	-1.41631E+06	105.68
750.00	77.690	-1.17670E+06	342.10	-1.43328E+06	99.820
800.00	78.314	-1.17280E+06	347.14	-1.45051E+06	94.706
850.00	78.832	-1.16887E+06	351.90	-1.46799E+06	90.209
900.00	79.268	-1.16492E+06	356.42	-1.48570E+06	86.225
950.00	79.638	-1.16095E+06	360.72	-1.50363E+06	82.673
1000.0	79.955	-1.15696E+06	364.81	-1.52177E+06	79.487
1050.0	80.229	-1.15295E+06	368.72	-1.54010E+06	76.614
1100.0	80.467	-1.14893E+06	372.45	-1.55863E+06	74.011
1150.0	80.677	-1.14491E+06	376.04	-1.57735E+06	71.644
1200.0	80.861	-1.14087E+06	379.47	-1.59624E+06	69.481
1250.0	81.025	-1.13682E+06	382.78	-1.61529E+06	67.498
1300.0	81.171	-1.13276E+06	385.96	-1.63451E+06	65.674
1350.0	81.301	-1.12870E+06	389.02	-1.65389E+06	63.991
1400.0	81.419	-1.12464E+06	391.98	-1.67341E+06	62.434
1450.0	81.526	-1.12056E+06	394.84	-1.69308E+06	60.990
1500.0	81.622	-1.11648E+06	397.61	-1.71289E+06	59.647
1550.0	81.710	-1.11240E+06	400.29	-1.73284E+06	58.395
1600.0	81.791	-1.10831E+06	402.88	-1.75292E+06	57.226
1650.0	81.865	-1.10422E+06	405.40	-1.77313E+06	56.131
1700.0	81.933	-1.10013E+06	407.84	-1.79346E+06	55.105
1750.0	81.995	-1.09603E+06	410.22	-1.81391E+06	54.141
1800.0	82.053	-1.09193E+06	412.53	-1.83448E+06	53.234
1850.0	82.107	-1.08782E+06	414.78	-1.85516E+06	52.379
1900.0	82.157	-1.08372E+06	416.97	-1.87596E+06	51.572
1950.0	82.204	-1.07961E+06	419.10	-1.89686E+06	50.810
2000.0	82.247	-1.07549E+06	421.19	-1.91787E+06	50.088
2050.0	82.288	-1.07138E+06	423.22	-1.93898E+06	49.405
2100.0	82.326	-1.06727E+06	425.20	-1.96019E+06	48.756
2150.0	82.362	-1.06315E+06	427.14	-1.98150E+06	48.140
2200.0	82.396	-1.05903E+06	429.03	-2.00290E+06	47.554
2250.0	82.428	-1.05491E+06	430.88	-2.02440E+06	46.996
2300.0	82.458	-1.05079E+06	432.70	-2.04599E+06	46.465
2350.0	82.486	-1.04666E+06	434.47	-2.06767E+06	45.958
2400.0	82.513	-1.04254E+06	436.21	-2.08944E+06	45.474
2450.0	82.538	-1.03841E+06	437.91	-2.11129E+06	45.012
2500.0	82.563	-1.03428E+06	439.58	-2.13323E+06	44.570
2550.0	82.585	-1.03016E+06	441.21	-2.15525E+06	44.147
2600.0	82.607	-1.02603E+06	442.82	-2.17735E+06	43.742
2650.0	82.628	-1.02190E+06	444.39	-2.19953E+06	43.354
2700.0	82.648	-1.01776E+06	445.93	-2.22179E+06	42.982
2750.0	82.666	-1.01363E+06	447.45	-2.24412E+06	42.625
2800.0	82.684	-1.00950E+06	448.94	-2.26653E+06	42.282
2850.0	82.702	-1.00536E+06	450.40	-2.28901E+06	41.952
2900.0	82.718	-1.00123E+06	451.84	-2.31157E+06	41.635
2950.0	82.734	-9.97090E+05	453.26	-2.33420E+06	41.330
3000.0	82.748	-9.92953E+05	454.65	-2.35690E+06	41.036

A12F6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	133.76	-2.63362E+06	387.03	-2.74901E+06	481.60
300.00	134.09	-2.63337E+06	387.86	-2.74973E+06	478.76
350.00	142.23	-2.62646E+06	409.15	-2.76966E+06	413.34
400.00	149.30	-2.61917E+06	428.62	-2.79061E+06	364.41
450.00	154.70	-2.61156E+06	446.53	-2.81250E+06	326.46
500.00	158.92	-2.60372E+06	463.06	-2.83524E+06	296.19
550.00	162.32	-2.59568E+06	478.37	-2.85878E+06	271.50
600.00	165.10	-2.58749E+06	492.61	-2.88306E+06	250.99
650.00	167.40	-2.57918E+06	505.92	-2.90803E+06	233.69
700.00	169.31	-2.57076E+06	518.40	-2.93364E+06	218.91
750.00	170.90	-2.56225E+06	530.14	-2.95986E+06	206.14
800.00	172.19	-2.55368E+06	541.21	-2.98664E+06	195.00
850.00	173.34	-2.54504E+06	551.68	-3.01397E+06	185.21
900.00	174.32	-2.53634E+06	561.62	-3.04180E+06	176.54
950.00	175.14	-2.52761E+06	571.07	-3.07012E+06	168.80
1000.0	175.85	-2.51883E+06	580.07	-3.09890E+06	161.87
1050.0	176.47	-2.51002E+06	588.67	-3.12812E+06	155.61
1100.0	177.01	-2.50119E+06	596.89	-3.15776E+06	149.95
1150.0	177.48	-2.49232E+06	604.77	-3.18781E+06	144.79
1200.0	177.90	-2.48344E+06	612.33	-3.21823E+06	140.08
1250.0	178.27	-2.47453E+06	619.60	-3.24903E+06	135.77
1300.0	178.60	-2.46561E+06	626.60	-3.28019E+06	131.80
1350.0	178.90	-2.45668E+06	633.34	-3.31169E+06	128.13
1400.0	179.17	-2.44772E+06	639.85	-3.34352E+06	124.75
1450.0	179.41	-2.43876E+06	646.15	-3.37567E+06	121.60
1500.0	179.63	-2.42978E+06	652.23	-3.40813E+06	118.68
1550.0	179.83	-2.42080E+06	658.13	-3.44089E+06	115.95
1600.0	180.02	-2.41180E+06	663.84	-3.47394E+06	113.41
1650.0	180.19	-2.40279E+06	669.38	-3.50727E+06	111.03
1700.0	180.34	-2.39378E+06	674.76	-3.54088E+06	108.80
1750.0	180.49	-2.38476E+06	679.99	-3.57475E+06	106.70
1800.0	180.62	-2.37573E+06	685.08	-3.60887E+06	104.72
1850.0	180.74	-2.36670E+06	690.03	-3.64325E+06	102.86
1900.0	180.85	-2.35766E+06	694.85	-3.67787E+06	101.11
1950.0	180.96	-2.34861E+06	699.55	-3.71273E+06	99.450
2000.0	181.06	-2.33956E+06	704.13	-3.74783E+06	97.881
2050.0	181.15	-2.33051E+06	708.60	-3.78314E+06	96.393
2100.0	181.23	-2.32145E+06	712.97	-3.81868E+06	94.982
2150.0	181.31	-2.31238E+06	717.23	-3.85444E+06	93.642
2200.0	181.39	-2.30332E+06	721.40	-3.89041E+06	92.368
2250.0	181.45	-2.29425E+06	725.48	-3.92658E+06	91.155
2300.0	181.52	-2.28517E+06	729.47	-3.96295E+06	89.999
2350.0	181.58	-2.27609E+06	733.37	-3.99952E+06	88.897
2400.0	181.63	-2.26701E+06	737.20	-4.03629E+06	87.845
2450.0	181.69	-2.25793E+06	740.94	-4.07324E+06	86.840
2500.0	181.73	-2.24885E+06	744.61	-4.11038E+06	85.880
2550.0	181.78	-2.23976E+06	748.21	-4.14770E+06	84.960
2600.0	181.82	-2.23067E+06	751.74	-4.18520E+06	84.080
2650.0	181.86	-2.22158E+06	755.21	-4.22288E+06	83.236
2700.0	181.89	-2.21248E+06	758.61	-4.26072E+06	82.427
2750.0	181.93	-2.20339E+06	761.95	-4.29874E+06	81.650
2800.0	181.96	-2.19429E+06	765.22	-4.33692E+06	80.904
2850.0	181.99	-2.18519E+06	768.44	-4.37526E+06	80.187
2900.0	182.02	-2.17609E+06	771.61	-4.41376E+06	79.498
2950.0	182.05	-2.16699E+06	774.72	-4.45242E+06	78.835
3000.0	182.08	-2.15789E+06	777.78	-4.49123E+06	78.197

ALFH<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	39.722	-1.82614E+05	245.46	-2.55799E+05	44.814
300.00	39.782	-1.82540E+05	245.71	-2.56253E+05	44.617
350.00	41.318	-1.80512E+05	251.96	-2.68698E+05	40.100
400.00	42.707	-1.78411E+05	257.57	-2.81439E+05	36.751
450.00	43.982	-1.76243E+05	262.67	-2.94447E+05	34.178
500.00	45.159	-1.74015E+05	267.37	-3.07699E+05	32.144
550.00	46.247	-1.71729E+05	271.73	-3.21178E+05	30.502
600.00	47.252	-1.69391E+05	275.79	-3.34867E+05	29.152
650.00	48.178	-1.67005E+05	279.61	-3.48753E+05	28.025
700.00	49.026	-1.64575E+05	283.21	-3.62825E+05	27.074
750.00	49.798	-1.62104E+05	286.62	-3.77071E+05	26.261
800.00	50.495	-1.59596E+05	289.86	-3.91484E+05	25.561
850.00	51.119	-1.57056E+05	292.94	-4.06055E+05	24.952
900.00	51.667	-1.54486E+05	295.88	-4.20776E+05	24.421
950.00	52.215	-1.51888E+05	298.69	-4.35641E+05	23.953
1000.0	52.689	-1.49265E+05	301.38	-4.50643E+05	23.539
1050.0	53.102	-1.46620E+05	303.96	-4.65776E+05	23.171
1100.0	53.466	-1.43956E+05	306.44	-4.81037E+05	22.842
1150.0	53.789	-1.41274E+05	308.82	-4.96419E+05	22.547
1200.0	54.077	-1.38577E+05	311.12	-5.11917E+05	22.283
1250.0	54.337	-1.35867E+05	313.33	-5.27529E+05	22.044
1300.0	54.571	-1.33144E+05	315.47	-5.43249E+05	21.827
1350.0	54.785	-1.30410E+05	317.53	-5.59074E+05	21.631
1400.0	54.980	-1.27666E+05	319.52	-5.75001E+05	21.453
1450.0	55.160	-1.24912E+05	321.46	-5.91026E+05	21.291
1500.0	55.326	-1.22150E+05	323.33	-6.07146E+05	21.142
1550.0	55.480	-1.19380E+05	325.15	-6.23358E+05	21.006
1600.0	55.624	-1.16602E+05	326.91	-6.39659E+05	20.882
1650.0	55.758	-1.13818E+05	328.62	-6.56048E+05	20.768
1700.0	55.885	-1.11027E+05	330.29	-6.72521E+05	20.664
1750.0	56.004	-1.08230E+05	331.91	-6.89076E+05	20.567
1800.0	56.117	-1.05426E+05	333.49	-7.05712E+05	20.479
1850.0	56.224	-1.02618E+05	335.03	-7.22425E+05	20.397
1900.0	56.326	-99804.	336.53	-7.39214E+05	20.322
1950.0	56.423	-96985.	338.00	-7.56077E+05	20.253
2000.0	56.516	-94162.	339.43	-7.73013E+05	20.189
2050.0	56.606	-91334.	340.82	-7.90019E+05	20.129
2100.0	56.692	-88501.	342.19	-8.07095E+05	20.075
2150.0	56.775	-85665.	343.52	-8.24238E+05	20.024
2200.0	56.855	-82824.	344.83	-8.41446E+05	19.978
2250.0	56.933	-79979.	346.11	-8.58720E+05	19.935
2300.0	57.008	-77131.	347.36	-8.76057E+05	19.895
2350.0	57.081	-74278.	348.59	-8.93455E+05	19.859
2400.0	57.152	-71423.	349.79	-9.10915E+05	19.825
2450.0	57.221	-68563.	350.97	-9.28434E+05	19.794
2500.0	57.289	-65701.	352.12	-9.46011E+05	19.765
2550.0	57.355	-62834.	353.26	-9.63646E+05	19.739
2600.0	57.420	-59965.	354.37	-9.81337E+05	19.715
2650.0	57.483	-57092.	355.47	-9.99083E+05	19.693
2700.0	57.545	-54217.	356.54	-1.01688E+06	19.672
2750.0	57.606	-51338.	357.60	-1.03474E+06	19.654
2800.0	57.666	-48456.	358.64	-1.05264E+06	19.637
2850.0	57.725	-45571.	359.66	-1.07060E+06	19.621
2900.0	57.783	-42684.	360.66	-1.08861E+06	19.607
2950.0	57.841	-39793.	361.65	-1.10667E+06	19.595
3000.0	57.897	-36900.	362.62	-1.12477E+06	19.584

AlFH2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	44.204	-3.16655E+05	238.74	-3.87835E+05	67.945
300.00	44.353	-3.16573E+05	239.01	-3.88277E+05	67.603
350.00	48.036	-3.14261E+05	246.14	-4.00408E+05	59.756
400.00	51.211	-3.11778E+05	252.76	-4.12883E+05	53.916
450.00	54.027	-3.09146E+05	258.96	-4.25677E+05	49.410
500.00	56.563	-3.06380E+05	264.78	-4.38772E+05	45.837
550.00	58.864	-3.03493E+05	270.29	-4.52150E+05	42.941
600.00	60.956	-3.00497E+05	275.50	-4.65796E+05	40.550
650.00	62.857	-2.97401E+05	280.45	-4.79696E+05	38.548
700.00	64.577	-2.94214E+05	285.18	-4.93838E+05	36.850
750.00	66.125	-2.90946E+05	289.69	-5.08210E+05	35.394
800.00	67.502	-2.87605E+05	294.00	-5.22803E+05	34.135
850.00	68.799	-2.84196E+05	298.13	-5.37607E+05	33.036
900.00	69.930	-2.80727E+05	302.10	-5.52613E+05	32.072
950.00	70.927	-2.77205E+05	305.90	-5.67814E+05	31.220
1000.0	71.813	-2.73637E+05	309.56	-5.83201E+05	30.463
1050.0	72.608	-2.70026E+05	313.09	-5.98768E+05	29.786
1100.0	73.325	-2.66377E+05	316.48	-6.14508E+05	29.180
1150.0	73.977	-2.62694E+05	319.76	-6.30414E+05	28.634
1200.0	74.571	-2.58980E+05	322.92	-6.46481E+05	28.140
1250.0	75.115	-2.55238E+05	325.97	-6.62704E+05	27.692
1300.0	75.616	-2.51470E+05	328.93	-6.79077E+05	27.285
1350.0	76.077	-2.47677E+05	331.79	-6.95595E+05	26.914
1400.0	76.503	-2.43862E+05	334.57	-7.12255E+05	26.574
1450.0	76.898	-2.40027E+05	337.26	-7.29050E+05	26.263
1500.0	77.263	-2.36173E+05	339.87	-7.45979E+05	25.977
1550.0	77.602	-2.32301E+05	342.41	-7.63036E+05	25.713
1600.0	77.915	-2.28413E+05	344.88	-7.80219E+05	25.471
1650.0	78.206	-2.24510E+05	347.28	-7.97523E+05	25.247
1700.0	78.475	-2.20593E+05	349.62	-8.14946E+05	25.040
1750.0	78.723	-2.16663E+05	351.90	-8.32484E+05	24.848
1800.0	78.952	-2.12721E+05	354.12	-8.50135E+05	24.670
1850.0	79.163	-2.08768E+05	356.28	-8.67895E+05	24.504
1900.0	79.355	-2.04805E+05	358.40	-8.85762E+05	24.351
1950.0	79.531	-2.00833E+05	360.46	-9.03734E+05	24.208
2000.0	79.691	-1.96852E+05	362.48	-9.21808E+05	24.075
2050.0	79.834	-1.92864E+05	364.45	-9.39981E+05	23.950
2100.0	79.962	-1.88869E+05	366.37	-9.58252E+05	23.835
2150.0	80.101	-1.84868E+05	368.26	-9.76617E+05	23.726
2200.0	80.230	-1.80859E+05	370.10	-9.95077E+05	23.626
2250.0	80.352	-1.76845E+05	371.90	-1.01363E+06	23.531
2300.0	80.466	-1.72824E+05	373.67	-1.03227E+06	23.443
2350.0	80.573	-1.68798E+05	375.40	-1.05099E+06	23.360
2400.0	80.673	-1.64767E+05	377.10	-1.06981E+06	23.283
2450.0	80.768	-1.60731E+05	378.76	-1.08870E+06	23.211
2500.0	80.857	-1.56690E+05	380.40	-1.10768E+06	23.143
2550.0	80.942	-1.52645E+05	382.00	-1.12674E+06	23.080
2600.0	81.022	-1.48596E+05	383.57	-1.14588E+06	23.020
2650.0	81.097	-1.44543E+05	385.12	-1.16510E+06	22.965
2700.0	81.168	-1.40486E+05	386.63	-1.18439E+06	22.913
2750.0	81.236	-1.36426E+05	388.12	-1.20376E+06	22.864
2800.0	81.301	-1.32363E+05	389.59	-1.22320E+06	22.819
2850.0	81.362	-1.28296E+05	391.03	-1.24272E+06	22.776
2900.0	81.420	-1.24227E+05	392.44	-1.26231E+06	22.736
2950.0	81.475	-1.20154E+05	393.83	-1.28196E+06	22.699
3000.0	81.528	-1.16079E+05	395.20	-1.30169E+06	22.664

ALF2H<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.654	-7.65299E+05	263.71	-8.43924E+05	147.85
300.00	53.816	-7.65200E+05	264.04	-8.44412E+05	147.02
350.00	57.612	-7.62410E+05	272.64	-8.57832E+05	128.02
400.00	60.606	-7.59452E+05	280.53	-8.71664E+05	113.82
450.00	63.087	-7.56358E+05	287.82	-8.85875E+05	102.83
500.00	65.205	-7.53149E+05	294.58	-9.00437E+05	94.066
550.00	67.047	-7.49842E+05	300.88	-9.15325E+05	86.928
600.00	68.663	-7.46448E+05	306.78	-9.30519E+05	81.007
650.00	70.086	-7.42979E+05	312.34	-9.45998E+05	76.019
700.00	71.338	-7.39442E+05	317.58	-9.61747E+05	71.765
750.00	72.433	-7.35847E+05	322.54	-9.77751E+05	68.095
800.00	73.378	-7.32201E+05	327.24	-9.93997E+05	64.900
850.00	74.282	-7.28509E+05	331.72	-1.01047E+06	62.094
900.00	75.054	-7.24775E+05	335.99	-1.02717E+06	59.614
950.00	75.719	-7.21006E+05	340.06	-1.04407E+06	57.405
1000.0	76.299	-7.17205E+05	343.96	-1.06117E+06	55.428
1050.0	76.809	-7.13377E+05	347.70	-1.07846E+06	53.649
1100.0	77.260	-7.09525E+05	351.28	-1.09594E+06	52.040
1150.0	77.663	-7.05652E+05	354.73	-1.11359E+06	50.579
1200.0	78.025	-7.01759E+05	358.04	-1.13141E+06	49.248
1250.0	78.352	-6.97850E+05	361.23	-1.14939E+06	48.029
1300.0	78.649	-6.93925E+05	364.31	-1.16753E+06	46.911
1350.0	78.920	-6.89985E+05	367.28	-1.18582E+06	45.881
1400.0	79.168	-6.86033E+05	370.16	-1.20425E+06	44.930
1450.0	79.396	-6.82069E+05	372.94	-1.22283E+06	44.050
1500.0	79.607	-6.78094E+05	375.64	-1.24155E+06	43.233
1550.0	79.803	-6.74109E+05	378.25	-1.26039E+06	42.474
1600.0	79.984	-6.70114E+05	380.79	-1.27937E+06	41.766
1650.0	80.153	-6.66110E+05	383.25	-1.29847E+06	41.105
1700.0	80.311	-6.62099E+05	385.64	-1.31769E+06	40.487
1750.0	80.458	-6.58079E+05	387.97	-1.33704E+06	39.907
1800.0	80.596	-6.54053E+05	390.24	-1.35649E+06	39.363
1850.0	80.726	-6.50020E+05	392.45	-1.37606E+06	38.852
1900.0	80.847	-6.45981E+05	394.61	-1.39574E+06	38.370
1950.0	80.961	-6.41935E+05	396.71	-1.41552E+06	37.917
2000.0	81.069	-6.37885E+05	398.76	-1.43541E+06	37.488
2050.0	81.169	-6.33829E+05	400.76	-1.45539E+06	37.083
2100.0	81.264	-6.29768E+05	402.72	-1.47548E+06	36.700
2150.0	81.354	-6.25702E+05	404.63	-1.49567E+06	36.337
2200.0	81.438	-6.21632E+05	406.51	-1.51594E+06	35.992
2250.0	81.517	-6.17559E+05	408.34	-1.53632E+06	35.665
2300.0	81.591	-6.13481E+05	410.13	-1.55678E+06	35.355
2350.0	81.660	-6.09400E+05	411.88	-1.57733E+06	35.059
2400.0	81.726	-6.05315E+05	413.60	-1.59796E+06	34.778
2450.0	81.787	-6.01227E+05	415.29	-1.61869E+06	34.510
2500.0	81.844	-5.97136E+05	416.94	-1.63949E+06	34.254
2550.0	81.897	-5.93043E+05	418.56	-1.66038E+06	34.011
2600.0	81.946	-5.88947E+05	420.15	-1.68135E+06	33.778
2650.0	81.992	-5.84848E+05	421.72	-1.70240E+06	33.555
2700.0	82.034	-5.80748E+05	423.25	-1.72352E+06	33.343
2750.0	82.073	-5.76645E+05	424.75	-1.74472E+06	33.139
2800.0	82.108	-5.72540E+05	426.23	-1.76600E+06	32.944
2850.0	82.141	-5.68434E+05	427.69	-1.78734E+06	32.758
2900.0	82.170	-5.64326E+05	429.12	-1.80876E+06	32.579
2950.0	82.196	-5.60217E+05	430.52	-1.83025E+06	32.407
3000.0	82.219	-5.56107E+05	431.90	-1.85182E+06	32.242

AlF4K<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	104.36	-1.90788E+06	351.89	-2.01280E+06	352.63
300.00	104.61	-1.90769E+06	352.54	-2.01345E+06	350.56
350.00	110.16	-1.90231E+06	369.11	-2.03150E+06	303.18
400.00	114.14	-1.89670E+06	384.09	-2.05033E+06	267.74
450.00	117.16	-1.89091E+06	397.72	-2.06988E+06	240.26
500.00	119.55	-1.88499E+06	410.19	-2.09009E+06	218.34
550.00	121.50	-1.87896E+06	421.68	-2.11089E+06	200.47
600.00	123.10	-1.87285E+06	432.32	-2.13224E+06	185.62
650.00	124.43	-1.86666E+06	442.23	-2.15411E+06	173.10
700.00	125.53	-1.86041E+06	451.49	-2.17645E+06	162.40
750.00	126.44	-1.85411E+06	460.18	-2.19925E+06	153.17
800.00	127.18	-1.84777E+06	468.37	-2.22246E+06	145.11
850.00	127.83	-1.84139E+06	476.10	-2.24608E+06	138.02
900.00	128.37	-1.83499E+06	483.42	-2.27007E+06	131.75
950.00	128.83	-1.82856E+06	490.37	-2.29441E+06	126.15
1000.0	129.23	-1.82211E+06	496.99	-2.31910E+06	121.13
1050.0	129.57	-1.81564E+06	503.31	-2.34411E+06	116.61
1100.0	129.86	-1.80915E+06	509.34	-2.36942E+06	112.51
1150.0	130.12	-1.80265E+06	515.12	-2.39504E+06	108.78
1200.0	130.35	-1.79614E+06	520.66	-2.42093E+06	105.38
1250.0	130.55	-1.78962E+06	525.99	-2.44710E+06	102.26
1300.0	130.73	-1.78308E+06	531.11	-2.47353E+06	99.385
1350.0	130.88	-1.77654E+06	536.05	-2.50021E+06	96.736
1400.0	131.03	-1.77000E+06	540.81	-2.52713E+06	94.286
1450.0	131.16	-1.76344E+06	545.41	-2.55428E+06	92.013
1500.0	131.27	-1.75688E+06	549.86	-2.58167E+06	89.899
1550.0	131.38	-1.75031E+06	554.16	-2.60927E+06	87.929
1600.0	131.48	-1.74374E+06	558.34	-2.63708E+06	86.090
1650.0	131.56	-1.73717E+06	562.38	-2.66510E+06	84.368
1700.0	131.65	-1.73059E+06	566.31	-2.69332E+06	82.753
1750.0	131.72	-1.72400E+06	570.13	-2.72173E+06	81.237
1800.0	131.79	-1.71741E+06	573.84	-2.75033E+06	79.810
1850.0	131.85	-1.71082E+06	577.45	-2.77911E+06	78.466
1900.0	131.91	-1.70423E+06	580.97	-2.80807E+06	77.197
1950.0	131.96	-1.69763E+06	584.40	-2.83721E+06	75.998
2000.0	132.01	-1.69103E+06	587.74	-2.86651E+06	74.864
2050.0	132.06	-1.68443E+06	591.00	-2.89598E+06	73.789
2100.0	132.11	-1.67783E+06	594.18	-2.92561E+06	72.769
2150.0	132.15	-1.67122E+06	597.29	-2.95540E+06	71.800
2200.0	132.19	-1.66461E+06	600.33	-2.98534E+06	70.879
2250.0	132.22	-1.65800E+06	603.30	-3.01543E+06	70.003
2300.0	132.26	-1.65139E+06	606.21	-3.04567E+06	69.167
2350.0	132.29	-1.64478E+06	609.05	-3.07605E+06	68.371
2400.0	132.32	-1.63816E+06	611.84	-3.10657E+06	67.611
2450.0	132.35	-1.63154E+06	614.57	-3.13723E+06	66.885
2500.0	132.37	-1.62493E+06	617.24	-3.16803E+06	66.191
2550.0	132.40	-1.61831E+06	619.86	-3.19895E+06	65.526
2600.0	132.42	-1.61169E+06	622.43	-3.23001E+06	64.890
2650.0	132.45	-1.60506E+06	624.95	-3.26120E+06	64.280
2700.0	132.47	-1.59844E+06	627.43	-3.29250E+06	63.696
2750.0	132.49	-1.59182E+06	629.86	-3.32394E+06	63.135
2800.0	132.51	-1.58519E+06	632.25	-3.35549E+06	62.596
2850.0	132.53	-1.57857E+06	634.59	-3.38716E+06	62.078
2900.0	132.54	-1.57194E+06	636.90	-3.41895E+06	61.580
2950.0	132.56	-1.56531E+06	639.17	-3.45085E+06	61.101
3000.0	132.58	-1.55868E+06	641.39	-3.48287E+06	60.641

ALF6K3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	222.80	-3.32628E+06	284.51	-3.41111E+06	597.60
300.00	223.21	-3.32587E+06	285.89	-3.41163E+06	594.00
350.00	233.04	-3.31445E+06	321.06	-3.42683E+06	511.41
400.00	241.23	-3.30259E+06	352.73	-3.44368E+06	449.69
450.00	248.47	-3.29035E+06	381.57	-3.46205E+06	401.85
500.00	255.12	-3.27775E+06	408.10	-3.48180E+06	363.73
550.00	261.39	-3.26484E+06	432.71	-3.50283E+06	332.66
600.00	267.40	-3.25162E+06	455.71	-3.52505E+06	306.87
650.00	273.22	-3.23810E+06	477.35	-3.54838E+06	285.14
700.00	278.91	-3.22430E+06	497.80	-3.57276E+06	266.60
750.00	284.82	-3.21020E+06	517.25	-3.59814E+06	250.59
800.00	289.99	-3.19583E+06	535.80	-3.62447E+06	236.65
850.00	294.55	-3.18121E+06	553.52	-3.65171E+06	224.40
900.00	298.63	-3.16638E+06	570.48	-3.67981E+06	213.57
950.00	302.30	-3.15136E+06	586.72	-3.70874E+06	203.92
1000.0	305.62	-3.13616E+06	602.31	-3.73847E+06	195.27
1050.0	308.64	-3.12080E+06	617.30	-3.76896E+06	187.49
1100.0	311.40	-3.10530E+06	631.72	-3.80019E+06	180.45
1150.0	313.92	-3.08966E+06	645.62	-3.83213E+06	174.06
1200.0	316.23	-3.07391E+06	659.03	-3.86475E+06	168.22
1250.0	318.36	-3.05804E+06	671.98	-3.89802E+06	162.89
1300.0	320.30	-3.04208E+06	684.51	-3.93194E+06	157.98

AlF4Li<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	100.86	-1.85351E+06	328.40	-1.95142E+06	341.87
300.00	101.13	-1.85333E+06	329.02	-1.95203E+06	339.87
350.00	107.22	-1.84811E+06	345.09	-1.96889E+06	293.83
400.00	111.79	-1.84263E+06	359.72	-1.98652E+06	259.41
450.00	115.35	-1.83695E+06	373.10	-2.00484E+06	232.71
500.00	118.17	-1.83111E+06	385.41	-2.02381E+06	211.42
550.00	120.41	-1.82514E+06	396.78	-2.04337E+06	194.06
600.00	122.16	-1.81907E+06	407.34	-2.06347E+06	179.64
650.00	123.63	-1.81293E+06	417.17	-2.08409E+06	167.48
700.00	124.81	-1.80672E+06	426.38	-2.10518E+06	157.09
750.00	125.78	-1.80045E+06	435.03	-2.12672E+06	148.11
800.00	126.58	-1.79414E+06	443.17	-2.14868E+06	140.29
850.00	127.26	-1.78779E+06	450.86	-2.17103E+06	133.41
900.00	127.84	-1.78142E+06	458.16	-2.19376E+06	127.32
950.00	128.34	-1.77501E+06	465.08	-2.21684E+06	121.89
1000.0	128.77	-1.76858E+06	471.67	-2.24026E+06	117.02
1050.0	129.14	-1.76214E+06	477.97	-2.26400E+06	112.62
1100.0	129.47	-1.75567E+06	483.98	-2.28805E+06	108.65
1150.0	129.77	-1.74919E+06	489.74	-2.31239E+06	105.03
1200.0	130.03	-1.74269E+06	495.27	-2.33702E+06	101.73
1250.0	130.26	-1.73619E+06	500.59	-2.36192E+06	98.697
1300.0	130.47	-1.72967E+06	505.70	-2.38708E+06	95.911
1350.0	130.65	-1.72314E+06	510.63	-2.41248E+06	93.342
1400.0	130.82	-1.71660E+06	515.38	-2.43814E+06	90.966
1450.0	130.97	-1.71006E+06	519.97	-2.46402E+06	88.761
1500.0	131.11	-1.70351E+06	524.42	-2.49013E+06	86.712
1550.0	131.23	-1.69695E+06	528.72	-2.51646E+06	84.802
1600.0	131.34	-1.69038E+06	532.89	-2.54300E+06	83.018
1650.0	131.44	-1.68381E+06	536.93	-2.56975E+06	81.349
1700.0	131.53	-1.67724E+06	540.85	-2.59669E+06	79.785
1750.0	131.61	-1.67066E+06	544.67	-2.62383E+06	78.315
1800.0	131.67	-1.66408E+06	548.38	-2.65116E+06	76.933
1850.0	131.75	-1.65749E+06	551.98	-2.67866E+06	75.630
1900.0	131.81	-1.65090E+06	555.50	-2.70635E+06	74.401
1950.0	131.87	-1.64431E+06	558.92	-2.73421E+06	73.240
2000.0	131.93	-1.63772E+06	562.26	-2.76224E+06	72.141
2050.0	131.98	-1.63112E+06	565.52	-2.79044E+06	71.099
2100.0	132.03	-1.62452E+06	568.70	-2.81879E+06	70.112
2150.0	132.08	-1.61792E+06	571.81	-2.84731E+06	69.174
2200.0	132.12	-1.61131E+06	574.85	-2.87597E+06	68.283
2250.0	132.16	-1.60470E+06	577.82	-2.90479E+06	67.434
2300.0	132.20	-1.59810E+06	580.72	-2.93375E+06	66.626
2350.0	132.23	-1.59149E+06	583.56	-2.96286E+06	65.855
2400.0	132.26	-1.58487E+06	586.35	-2.99211E+06	65.120
2450.0	132.29	-1.57826E+06	589.08	-3.02150E+06	64.417
2500.0	132.32	-1.57164E+06	591.75	-3.05102E+06	63.746
2550.0	132.35	-1.56503E+06	594.37	-3.08067E+06	63.103
2600.0	132.37	-1.55841E+06	596.94	-3.11045E+06	62.488
2650.0	132.40	-1.55179E+06	599.46	-3.14036E+06	61.899
2700.0	132.42	-1.54517E+06	601.94	-3.17040E+06	61.333
2750.0	132.44	-1.53855E+06	604.37	-3.20056E+06	60.791
2800.0	132.46	-1.53192E+06	606.75	-3.23083E+06	60.270
2850.0	132.48	-1.52530E+06	609.10	-3.26123E+06	59.770
2900.0	132.50	-1.51868E+06	611.40	-3.29174E+06	59.289
2950.0	132.52	-1.51205E+06	613.67	-3.32237E+06	58.827
3000.0	132.54	-1.50542E+06	615.90	-3.35311E+06	58.381

AlF6Li3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	202.51	-3.38360E+06	187.89	-3.43962E+06	602.59
300.00	203.15	-3.38323E+06	189.15	-3.43997E+06	598.94
350.00	218.12	-3.37268E+06	221.64	-3.45025E+06	514.91
400.00	229.88	-3.36147E+06	251.56	-3.46209E+06	452.09
450.00	239.65	-3.34972E+06	279.21	-3.47537E+06	403.40
500.00	248.10	-3.33752E+06	304.91	-3.48998E+06	364.59
550.00	255.57	-3.32493E+06	328.91	-3.50583E+06	332.95
600.00	262.31	-3.31198E+06	351.45	-3.52285E+06	306.68
650.00	268.44	-3.29871E+06	372.69	-3.54095E+06	284.55
700.00	274.05	-3.28514E+06	392.79	-3.56010E+06	265.65
748.00	279.02	-3.27187E+06	411.13	-3.57939E+06	249.95
748.00	279.07	-3.26978E+06	413.93	-3.57939E+06	249.95
750.00	279.28	-3.26922E+06	414.67	-3.58022E+06	249.34
800.00	284.51	-3.25512E+06	432.86	-3.60141E+06	235.14
850.00	289.74	-3.24077E+06	450.27	-3.62350E+06	222.67
900.00	294.97	-3.22615E+06	466.98	-3.64643E+06	211.63
950.00	300.20	-3.21127E+06	483.07	-3.67018E+06	201.80
1000.0	305.43	-3.19613E+06	498.60	-3.69473E+06	192.99
1050.0	310.66	-3.18073E+06	513.63	-3.72003E+06	185.06
1058.0	311.50	-3.17824E+06	515.99	-3.72415E+06	183.86
1058.0	359.82	-3.09205E+06	597.45	-3.72415E+06	183.86
1100.0	359.82	-3.07693E+06	611.46	-3.74954E+06	178.05
1150.0	359.82	-3.05894E+06	627.46	-3.78052E+06	171.71
1200.0	359.82	-3.04095E+06	642.77	-3.81228E+06	165.94
1250.0	359.82	-3.02296E+06	657.46	-3.84478E+06	160.66
1300.0	359.82	-3.00497E+06	671.57	-3.87801E+06	155.82
1350.0	359.82	-2.98698E+06	685.15	-3.91193E+06	151.36
1400.0	359.82	-2.96899E+06	698.24	-3.94652E+06	147.24
1450.0	359.82	-2.95100E+06	710.86	-3.98175E+06	143.43
1500.0	359.82	-2.93300E+06	723.06	-4.01760E+06	139.90
1550.0	359.82	-2.91501E+06	734.86	-4.05405E+06	136.62
1600.0	359.82	-2.89702E+06	746.28	-4.09108E+06	133.56
1650.0	359.82	-2.87903E+06	757.36	-4.12867E+06	130.70
1700.0	359.82	-2.86104E+06	768.10	-4.16681E+06	128.03
1750.0	359.82	-2.84305E+06	778.53	-4.20548E+06	125.52
1800.0	359.82	-2.82506E+06	788.67	-4.24466E+06	123.17
1850.0	359.82	-2.80707E+06	798.52	-4.28434E+06	120.96
1900.0	359.82	-2.78908E+06	808.12	-4.32450E+06	118.89
1950.0	359.82	-2.77108E+06	817.47	-4.36515E+06	116.93
2000.0	359.82	-2.75309E+06	826.58	-4.40625E+06	115.08
2050.0	359.82	-2.73510E+06	835.46	-4.44780E+06	113.33
2100.0	359.82	-2.71711E+06	844.13	-4.48979E+06	111.67
2150.0	359.82	-2.69912E+06	852.60	-4.53221E+06	110.11
2200.0	359.82	-2.68113E+06	860.87	-4.57505E+06	108.62
2250.0	359.82	-2.66314E+06	868.96	-4.61829E+06	107.21
2300.0	359.82	-2.64515E+06	876.87	-4.66194E+06	105.87
2350.0	359.82	-2.62715E+06	884.61	-4.70598E+06	104.60
2400.0	359.82	-2.60916E+06	892.18	-4.75040E+06	103.39
2450.0	359.82	-2.59117E+06	899.60	-4.79519E+06	102.23
2500.0	359.82	-2.57318E+06	906.87	-4.84035E+06	101.13
2550.0	359.82	-2.55519E+06	913.99	-4.88588E+06	100.08
2600.0	359.82	-2.53720E+06	920.98	-4.93175E+06	99.078
2650.0	359.82	-2.51921E+06	927.84	-4.97797E+06	98.119
2700.0	359.82	-2.50122E+06	934.56	-5.02453E+06	97.203
2750.0	359.82	-2.48322E+06	941.16	-5.07143E+06	96.326
2800.0	359.82	-2.46523E+06	947.65	-5.11865E+06	95.487
2850.0	359.82	-2.44724E+06	954.02	-5.16619E+06	94.683
2900.0	359.82	-2.42925E+06	960.27	-5.21405E+06	93.913
2950.0	359.82	-2.41126E+06	966.43	-5.26222E+06	93.174
3000.0	359.82	-2.39327E+06	972.47	-5.31069E+06	92.465

AlF4Na<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	106.00	-1.86857E+06	345.57	-1.97160E+06	345.41
300.00	106.23	-1.86838E+06	346.22	-1.97224E+06	343.39
350.00	111.33	-1.86293E+06	363.00	-1.98998E+06	296.98
400.00	115.16	-1.85727E+06	378.13	-2.00852E+06	262.28
450.00	118.14	-1.85143E+06	391.87	-2.02777E+06	235.37
500.00	120.50	-1.84546E+06	404.45	-2.04769E+06	213.91
550.00	122.38	-1.83939E+06	416.02	-2.06820E+06	196.42
600.00	123.85	-1.83323E+06	426.74	-2.08927E+06	181.88
650.00	125.09	-1.82701E+06	436.70	-2.11086E+06	169.63
700.00	126.09	-1.82073E+06	446.01	-2.13293E+06	159.16
750.00	126.90	-1.81440E+06	454.74	-2.15545E+06	150.12
800.00	127.58	-1.80804E+06	462.95	-2.17840E+06	142.23
850.00	128.15	-1.80164E+06	470.70	-2.20174E+06	135.30
900.00	128.64	-1.79522E+06	478.04	-2.22546E+06	129.16
950.00	129.06	-1.78878E+06	485.01	-2.24954E+06	123.69
1000.0	129.42	-1.78232E+06	491.64	-2.27396E+06	118.78
1050.0	129.74	-1.77584E+06	497.96	-2.29870E+06	114.35
1100.0	130.02	-1.76935E+06	504.00	-2.32375E+06	110.34
1150.0	130.26	-1.76284E+06	509.78	-2.34909E+06	106.70
1200.0	130.48	-1.75632E+06	515.33	-2.37472E+06	103.37
1250.0	130.68	-1.74979E+06	520.66	-2.40062E+06	100.31
1300.0	130.86	-1.74325E+06	525.79	-2.42678E+06	97.507
1350.0	131.02	-1.73671E+06	530.73	-2.45320E+06	94.918
1400.0	131.16	-1.73015E+06	535.50	-2.47985E+06	92.522
1450.0	131.29	-1.72359E+06	540.11	-2.50675E+06	90.300
1500.0	131.40	-1.71702E+06	544.56	-2.53386E+06	88.235
1550.0	131.50	-1.71045E+06	548.87	-2.56120E+06	86.310
1600.0	131.60	-1.70387E+06	553.05	-2.58875E+06	84.512
1650.0	131.68	-1.69729E+06	557.10	-2.61650E+06	82.829
1700.0	131.76	-1.69071E+06	561.03	-2.64446E+06	81.252
1750.0	131.82	-1.68412E+06	564.85	-2.67260E+06	79.771
1800.0	131.88	-1.67752E+06	568.56	-2.70094E+06	78.377
1850.0	131.94	-1.67093E+06	572.18	-2.72946E+06	77.064
1900.0	132.00	-1.66433E+06	575.70	-2.75815E+06	75.825
1950.0	132.05	-1.65773E+06	579.13	-2.78703E+06	74.654
2000.0	132.10	-1.65112E+06	582.47	-2.81607E+06	73.546
2050.0	132.14	-1.64452E+06	585.73	-2.84527E+06	72.497
2100.0	132.18	-1.63791E+06	588.92	-2.87464E+06	71.501
2150.0	132.22	-1.63130E+06	592.03	-2.90416E+06	70.555
2200.0	132.26	-1.62469E+06	595.07	-2.93384E+06	69.656
2250.0	132.29	-1.61808E+06	598.04	-2.96367E+06	68.801
2300.0	132.32	-1.61146E+06	600.95	-2.99364E+06	67.986
2350.0	132.35	-1.60484E+06	603.80	-3.02376E+06	67.209
2400.0	132.38	-1.59822E+06	606.58	-3.05402E+06	66.467
2450.0	132.40	-1.59161E+06	609.31	-3.08442E+06	65.759
2500.0	132.43	-1.58498E+06	611.99	-3.11495E+06	65.082
2550.0	132.45	-1.57836E+06	614.61	-3.14562E+06	64.434
2600.0	132.47	-1.57174E+06	617.18	-3.17641E+06	63.813
2650.0	132.49	-1.56512E+06	619.71	-3.20733E+06	63.219
2700.0	132.51	-1.55849E+06	622.18	-3.23838E+06	62.649
2750.0	132.53	-1.55186E+06	624.61	-3.26955E+06	62.102
2800.0	132.55	-1.54524E+06	627.00	-3.30084E+06	61.576
2850.0	132.57	-1.53861E+06	629.35	-3.33225E+06	61.072
2900.0	132.58	-1.53198E+06	631.65	-3.36378E+06	60.587
2950.0	132.60	-1.52535E+06	633.92	-3.39542E+06	60.120
3000.0	132.61	-1.51872E+06	636.15	-3.42717E+06	59.671

AlF6Na3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	215.90	-3.32240E+06	238.20	-3.39342E+06	594.50
300.00	216.29	-3.32200E+06	239.54	-3.39386E+06	590.91
350.00	225.92	-3.31094E+06	273.62	-3.40671E+06	508.41
400.00	234.33	-3.29943E+06	304.35	-3.42117E+06	446.75
450.00	242.03	-3.28752E+06	332.40	-3.43710E+06	398.96
500.00	249.28	-3.27523E+06	358.28	-3.45437E+06	360.87
550.00	256.25	-3.26259E+06	382.36	-3.47289E+06	329.82
600.00	263.02	-3.24961E+06	404.95	-3.49258E+06	304.05
650.00	269.66	-3.23629E+06	426.27	-3.51337E+06	282.33
700.00	276.19	-3.22265E+06	446.49	-3.53519E+06	263.79
750.00	282.65	-3.20868E+06	465.77	-3.55800E+06	247.79
800.00	289.06	-3.19438E+06	484.21	-3.58175E+06	233.86
838.00	293.89	-3.18331E+06	497.74	-3.60041E+06	224.42
838.00	273.80	-3.17416E+06	508.66	-3.60041E+06	224.42
850.00	274.60	-3.17087E+06	512.56	-3.60654E+06	221.63
900.00	277.92	-3.15705E+06	528.35	-3.63257E+06	210.82
950.00	281.24	-3.14307E+06	543.46	-3.65936E+06	201.20
1000.0	284.55	-3.12893E+06	557.97	-3.68690E+06	192.58
1050.0	287.87	-3.11462E+06	571.94	-3.71515E+06	184.81
1100.0	291.19	-3.10014E+06	585.40	-3.74409E+06	177.79
1150.0	294.51	-3.08550E+06	598.42	-3.77369E+06	171.40
1200.0	297.83	-3.07069E+06	611.03	-3.80392E+06	165.58
1250.0	301.14	-3.05572E+06	623.25	-3.83478E+06	160.24
1286.0	303.53	-3.04483E+06	631.84	-3.85737E+06	156.67
1286.0	391.00	-2.93043E+06	720.79	-3.85737E+06	156.67
1300.0	391.00	-2.92496E+06	725.03	-3.86749E+06	155.39
1350.0	391.00	-2.90541E+06	739.78	-3.90412E+06	151.06
1400.0	391.00	-2.88586E+06	754.00	-3.94146E+06	147.05
1450.0	391.00	-2.86631E+06	767.72	-3.97951E+06	143.35
1500.0	391.00	-2.84676E+06	780.98	-4.01823E+06	139.92
1550.0	391.00	-2.82721E+06	793.80	-4.05760E+06	136.74
1600.0	391.00	-2.80766E+06	806.21	-4.09760E+06	133.77
1650.0	391.00	-2.78811E+06	818.25	-4.13821E+06	131.00
1700.0	391.00	-2.76856E+06	829.92	-4.17942E+06	128.41
1750.0	391.00	-2.74901E+06	841.25	-4.22120E+06	125.99
1800.0	391.00	-2.72946E+06	852.27	-4.26354E+06	123.72
1850.0	391.00	-2.70991E+06	862.98	-4.30642E+06	121.59
1900.0	391.00	-2.69036E+06	873.41	-4.34983E+06	119.58
1950.0	391.00	-2.67081E+06	883.56	-4.39376E+06	117.69
2000.0	391.00	-2.65126E+06	893.46	-4.43819E+06	115.91
2050.0	391.00	-2.63171E+06	903.12	-4.48310E+06	114.23
2100.0	391.00	-2.61216E+06	912.54	-4.52849E+06	112.64
2150.0	391.00	-2.59261E+06	921.74	-4.57435E+06	111.13
2200.0	391.00	-2.57306E+06	930.73	-4.62066E+06	109.71
2250.0	391.00	-2.55351E+06	939.52	-4.66742E+06	108.35
2300.0	391.00	-2.53396E+06	948.11	-4.71461E+06	107.07
2350.0	391.00	-2.51441E+06	956.52	-4.76223E+06	105.85
2400.0	391.00	-2.49486E+06	964.75	-4.81026E+06	104.69
2450.0	391.00	-2.47531E+06	972.81	-4.85870E+06	103.59
2500.0	391.00	-2.45576E+06	980.71	-4.90754E+06	102.53
2550.0	391.00	-2.43621E+06	988.46	-4.95677E+06	101.53
2600.0	391.00	-2.41666E+06	996.05	-5.00638E+06	100.58
2650.0	391.00	-2.39711E+06	1003.5	-5.05637E+06	99.665
2700.0	391.00	-2.37756E+06	1010.8	-5.10673E+06	98.793
2750.0	391.00	-2.35801E+06	1018.0	-5.15745E+06	97.960
2800.0	391.00	-2.33846E+06	1025.0	-5.20853E+06	97.164
2850.0	391.00	-2.31891E+06	1031.9	-5.25995E+06	96.402
2900.0	391.00	-2.29936E+06	1038.7	-5.31172E+06	95.672
2950.0	391.00	-2.27981E+06	1045.4	-5.36382E+06	94.973
3000.0	391.00	-2.26026E+06	1052.0	-5.41626E+06	94.303

Al3F14Na5

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	454.00	-7.55500E+06	515.20	-7.70861E+06	1350.5
300.00	455.17	-7.55416E+06	518.01	-7.70956E+06	1342.3
350.00	481.17	-7.53071E+06	590.26	-7.73730E+06	1154.7
400.00	499.67	-7.50617E+06	655.78	-7.76848E+06	1014.4
450.00	513.80	-7.48082E+06	715.48	-7.80278E+06	905.70
500.00	525.23	-7.45483E+06	770.22	-7.83994E+06	819.01
550.00	534.90	-7.42832E+06	820.75	-7.87973E+06	748.34
600.00	543.35	-7.40136E+06	867.66	-7.92196E+06	689.65
650.00	550.96	-7.37400E+06	911.46	-7.96645E+06	640.18
700.00	557.96	-7.34627E+06	952.55	-8.01306E+06	597.93
750.00	564.50	-7.31821E+06	991.27	-8.06166E+06	561.45
800.00	570.69	-7.28983E+06	1027.9	-8.11215E+06	529.66
850.00	576.61	-7.26115E+06	1062.7	-8.16442E+06	501.71
900.00	582.33	-7.23217E+06	1095.8	-8.21839E+06	476.97
950.00	587.88	-7.20292E+06	1127.4	-8.27397E+06	454.92
1000.0	593.29	-7.17339E+06	1157.7	-8.33111E+06	435.16
1010.0	594.36	-7.16745E+06	1163.6	-8.34272E+06	431.45
1010.0	974.00	-6.93845E+06	1390.4	-8.34272E+06	431.45
1050.0	974.00	-6.89949E+06	1428.2	-8.39909E+06	417.82
1100.0	974.00	-6.85079E+06	1473.5	-8.47164E+06	402.27
1150.0	974.00	-6.80209E+06	1516.8	-8.54641E+06	388.18
1200.0	974.00	-6.75339E+06	1558.3	-8.62329E+06	375.35
1250.0	974.00	-6.70469E+06	1598.0	-8.70221E+06	363.64
1300.0	974.00	-6.65599E+06	1636.2	-8.78307E+06	352.90
1350.0	974.00	-6.60729E+06	1673.0	-8.86580E+06	343.03
1400.0	974.00	-6.55859E+06	1708.4	-8.95034E+06	333.93
1450.0	974.00	-6.50989E+06	1742.6	-9.03662E+06	325.53
1500.0	974.00	-6.46119E+06	1775.6	-9.12458E+06	317.74
1550.0	974.00	-6.41249E+06	1807.5	-9.21416E+06	310.51
1600.0	974.00	-6.36379E+06	1838.5	-9.30532E+06	303.78
1650.0	974.00	-6.31509E+06	1868.4	-9.39799E+06	297.51
1700.0	974.00	-6.26639E+06	1897.5	-9.49214E+06	291.65
1750.0	974.00	-6.21769E+06	1925.7	-9.58773E+06	286.17
1800.0	974.00	-6.16899E+06	1953.2	-9.68471E+06	281.04
1850.0	974.00	-6.12029E+06	1979.9	-9.78303E+06	276.22
1900.0	974.00	-6.07159E+06	2005.8	-9.88268E+06	271.69
1950.0	974.00	-6.02289E+06	2031.1	-9.98361E+06	267.42
2000.0	974.00	-5.97419E+06	2055.8	-1.00858E+07	263.41
2050.0	974.00	-5.92549E+06	2079.8	-1.01892E+07	259.62
2100.0	974.00	-5.87679E+06	2103.3	-1.02938E+07	256.04
2150.0	974.00	-5.82809E+06	2126.2	-1.03995E+07	252.65
2200.0	974.00	-5.77939E+06	2148.6	-1.05064E+07	249.45
2250.0	974.00	-5.73069E+06	2170.5	-1.06144E+07	246.41
2300.0	974.00	-5.68199E+06	2191.9	-1.07234E+07	243.53
2350.0	974.00	-5.63329E+06	2212.9	-1.08335E+07	240.80
2400.0	974.00	-5.58459E+06	2233.4	-1.09447E+07	238.20
2450.0	974.00	-5.53589E+06	2253.5	-1.10569E+07	235.73
2500.0	974.00	-5.48719E+06	2273.1	-1.11700E+07	233.38
2550.0	974.00	-5.43849E+06	2292.4	-1.12842E+07	231.14
2600.0	974.00	-5.38979E+06	2311.3	-1.13993E+07	229.01
2650.0	974.00	-5.34109E+06	2329.9	-1.15153E+07	226.97
2700.0	974.00	-5.29239E+06	2348.1	-1.16323E+07	225.03
2750.0	974.00	-5.24369E+06	2366.0	-1.17501E+07	223.18
2800.0	974.00	-5.19499E+06	2383.5	-1.18688E+07	221.41
2850.0	974.00	-5.14629E+06	2400.8	-1.19885E+07	219.72
2900.0	974.00	-5.09759E+06	2417.7	-1.21089E+07	218.10
2950.0	974.00	-5.04889E+06	2434.3	-1.22302E+07	216.55
3000.0	974.00	-5.00019E+06	2450.7	-1.23523E+07	215.07

AlF2NaO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.783	-1.23428E+06	285.46	-1.31939E+06	231.15
300.00	79.016	-1.23413E+06	285.95	-1.31992E+06	229.81
350.00	84.001	-1.23005E+06	298.53	-1.33453E+06	199.16
400.00	87.272	-1.22576E+06	309.97	-1.34975E+06	176.26
450.00	89.547	-1.22134E+06	320.39	-1.36551E+06	158.50
500.00	91.203	-1.21682E+06	329.92	-1.38178E+06	144.35
550.00	92.454	-1.21222E+06	338.67	-1.39849E+06	132.81
600.00	93.430	-1.20758E+06	346.76	-1.41563E+06	123.24
650.00	94.212	-1.20289E+06	354.27	-1.43316E+06	115.17
700.00	94.854	-1.19816E+06	361.28	-1.45105E+06	108.28
750.00	95.391	-1.19340E+06	367.84	-1.46928E+06	102.33
800.00	95.849	-1.18862E+06	374.01	-1.48783E+06	97.143
850.00	96.246	-1.18382E+06	379.83	-1.50668E+06	92.587
900.00	96.595	-1.17900E+06	385.34	-1.52581E+06	88.553
950.00	96.906	-1.17416E+06	390.58	-1.54521E+06	84.959
1000.0	97.186	-1.16931E+06	395.55	-1.56486E+06	81.738
1050.0	97.441	-1.16444E+06	400.30	-1.58476E+06	78.835
1100.0	97.676	-1.15956E+06	404.84	-1.60489E+06	76.208
1150.0	97.894	-1.15467E+06	409.19	-1.62524E+06	73.819
1200.0	98.097	-1.14977E+06	413.36	-1.64580E+06	71.638
1250.0	98.289	-1.14486E+06	417.37	-1.66657E+06	69.640
1300.0	98.470	-1.13994E+06	421.22	-1.68754E+06	67.804
1350.0	98.642	-1.13502E+06	424.94	-1.70869E+06	66.112
1400.0	98.807	-1.13008E+06	428.53	-1.73003E+06	64.547
1450.0	98.966	-1.12514E+06	432.00	-1.75154E+06	63.096
1500.0	99.119	-1.12018E+06	435.36	-1.77323E+06	61.748
1550.0	99.267	-1.11522E+06	438.61	-1.79508E+06	60.492
1600.0	99.411	-1.11026E+06	441.77	-1.81709E+06	59.320
1650.0	99.551	-1.10528E+06	444.83	-1.83925E+06	58.224
1700.0	99.687	-1.10030E+06	447.80	-1.86157E+06	57.198
1750.0	99.821	-1.09531E+06	450.69	-1.88403E+06	56.234
1800.0	99.951	-1.09032E+06	453.51	-1.90664E+06	55.328
1850.0	100.08	-1.08532E+06	456.25	-1.92938E+06	54.475
1900.0	100.21	-1.08031E+06	458.92	-1.95226E+06	53.670
1950.0	100.33	-1.07530E+06	461.52	-1.97527E+06	52.910
2000.0	100.45	-1.07028E+06	464.07	-1.99841E+06	52.192

AlFO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	46.770	-5.72289E+05	238.96	-6.43535E+05	112.74
300.00	46.873	-5.72202E+05	239.25	-6.43977E+05	112.12
350.00	49.260	-5.69796E+05	246.66	-6.56128E+05	97.919
400.00	51.104	-5.67285E+05	253.37	-6.68632E+05	87.312
450.00	52.601	-5.64692E+05	259.47	-6.81455E+05	79.099
500.00	53.854	-5.62029E+05	265.08	-6.94571E+05	72.559
550.00	54.921	-5.59309E+05	270.27	-7.07956E+05	67.234
600.00	55.837	-5.56540E+05	275.09	-7.21592E+05	62.819
650.00	56.624	-5.53728E+05	279.59	-7.35460E+05	59.101
700.00	57.297	-5.50879E+05	283.81	-7.49546E+05	55.930
750.00	57.866	-5.48000E+05	287.78	-7.63836E+05	53.197
800.00	58.335	-5.45094E+05	291.53	-7.78320E+05	50.818
850.00	58.768	-5.42166E+05	295.08	-7.92986E+05	48.730
900.00	59.131	-5.39219E+05	298.45	-8.07825E+05	46.884
950.00	59.440	-5.36254E+05	301.66	-8.22829E+05	45.241
1000.0	59.704	-5.33275E+05	304.71	-8.37989E+05	43.771
1050.0	59.933	-5.30284E+05	307.63	-8.53298E+05	42.448
1100.0	60.131	-5.27283E+05	310.42	-8.68750E+05	41.252
1150.0	60.306	-5.24272E+05	313.10	-8.84338E+05	40.167
1200.0	60.459	-5.21252E+05	315.67	-9.00058E+05	39.178
1250.0	60.595	-5.18226E+05	318.14	-9.15904E+05	38.273
1300.0	60.717	-5.15193E+05	320.52	-9.31871E+05	37.442
1350.0	60.825	-5.12154E+05	322.81	-9.47955E+05	36.678
1400.0	60.923	-5.09111E+05	325.03	-9.64151E+05	35.972
1450.0	61.012	-5.06062E+05	327.17	-9.80456E+05	35.319
1500.0	61.092	-5.03010E+05	329.24	-9.96867E+05	34.713
1550.0	61.165	-4.99953E+05	331.24	-1.01338E+06	34.150
1600.0	61.232	-4.96893E+05	333.19	-1.02999E+06	33.625
1650.0	61.293	-4.93830E+05	335.07	-1.04670E+06	33.135
1700.0	61.349	-4.90764E+05	336.90	-1.06350E+06	32.676
1750.0	61.401	-4.87695E+05	338.68	-1.08039E+06	32.247
1800.0	61.449	-4.84624E+05	340.41	-1.09736E+06	31.844
1850.0	61.494	-4.81550E+05	342.10	-1.11443E+06	31.465
1900.0	61.535	-4.78475E+05	343.74	-1.13157E+06	31.108
1950.0	61.574	-4.75397E+05	345.33	-1.14880E+06	30.772
2000.0	61.610	-4.72317E+05	346.89	-1.16610E+06	30.455
2050.0	61.643	-4.69236E+05	348.42	-1.18349E+06	30.155
2100.0	61.675	-4.66153E+05	349.90	-1.20095E+06	29.871
2150.0	61.704	-4.63069E+05	351.35	-1.21848E+06	29.602
2200.0	61.732	-4.59983E+05	352.77	-1.23608E+06	29.348
2250.0	61.758	-4.56895E+05	354.16	-1.25375E+06	29.106
2300.0	61.783	-4.53807E+05	355.52	-1.27150E+06	28.876
2350.0	61.806	-4.50717E+05	356.85	-1.28931E+06	28.657
2400.0	61.828	-4.47626E+05	358.15	-1.30718E+06	28.449
2450.0	61.849	-4.44534E+05	359.42	-1.32512E+06	28.251
2500.0	61.869	-4.41441E+05	360.67	-1.34312E+06	28.062
2550.0	61.888	-4.38347E+05	361.90	-1.36119E+06	27.882
2600.0	61.906	-4.35253E+05	363.10	-1.37931E+06	27.710
2650.0	61.923	-4.32157E+05	364.28	-1.39750E+06	27.546
2700.0	61.939	-4.29060E+05	365.44	-1.41574E+06	27.388
2750.0	61.955	-4.25963E+05	366.57	-1.43404E+06	27.238
2800.0	61.969	-4.22865E+05	367.69	-1.45240E+06	27.094
2850.0	61.983	-4.19766E+05	368.79	-1.47081E+06	26.956
2900.0	61.997	-4.16666E+05	369.86	-1.48927E+06	26.824
2950.0	62.010	-4.13566E+05	370.92	-1.50779E+06	26.697
3000.0	62.022	-4.10466E+05	371.97	-1.52637E+06	26.576

ALF20<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.236	-7.73650E+05	291.33	-8.60510E+05	150.75
300.00	62.386	-7.73535E+05	291.71	-8.61049E+05	149.92
350.00	65.846	-7.70325E+05	301.60	-8.75886E+05	130.72
400.00	68.494	-7.66964E+05	310.58	-8.91194E+05	116.38
450.00	70.619	-7.63484E+05	318.77	-9.06931E+05	105.27
500.00	72.374	-7.59908E+05	326.31	-9.23060E+05	96.429
550.00	73.844	-7.56251E+05	333.27	-9.39552E+05	89.229
600.00	75.081	-7.52527E+05	339.75	-9.56380E+05	83.258
650.00	76.119	-7.48746E+05	345.81	-9.73520E+05	78.231
700.00	76.976	-7.44918E+05	351.48	-9.90954E+05	73.944
750.00	77.731	-7.41050E+05	356.82	-1.00866E+06	70.248
800.00	78.351	-7.37147E+05	361.85	-1.02663E+06	67.030
850.00	78.865	-7.33217E+05	366.62	-1.04484E+06	64.207
900.00	79.298	-7.29262E+05	371.14	-1.06329E+06	61.710
950.00	79.666	-7.25288E+05	375.44	-1.08195E+06	59.488
1000.0	79.981	-7.21296E+05	379.53	-1.10083E+06	57.500
1050.0	80.253	-7.17290E+05	383.44	-1.11990E+06	55.711
1100.0	80.490	-7.13272E+05	387.18	-1.13917E+06	54.093
1150.0	80.697	-7.09242E+05	390.76	-1.15862E+06	52.625
1200.0	80.880	-7.05202E+05	394.20	-1.17824E+06	51.286
1250.0	81.043	-7.01154E+05	397.51	-1.19804E+06	50.062
1300.0	81.188	-6.97098E+05	400.69	-1.21799E+06	48.938
1350.0	81.318	-6.93036E+05	403.75	-1.23810E+06	47.904
1400.0	81.434	-6.88967E+05	406.71	-1.25837E+06	46.949
1450.0	81.540	-6.84893E+05	409.57	-1.27877E+06	46.065
1500.0	81.636	-6.80813E+05	412.34	-1.29932E+06	45.245
1550.0	81.723	-6.76729E+05	415.02	-1.32001E+06	44.483
1600.0	81.803	-6.72641E+05	417.61	-1.34082E+06	43.772
1650.0	81.877	-6.68549E+05	420.13	-1.36177E+06	43.109
1700.0	81.944	-6.64453E+05	422.58	-1.38283E+06	42.488
1750.0	82.006	-6.60355E+05	424.95	-1.40402E+06	41.907
1800.0	82.064	-6.56253E+05	427.26	-1.42533E+06	41.361
1850.0	82.117	-6.52148E+05	429.51	-1.44675E+06	40.848
1900.0	82.167	-6.48041E+05	431.70	-1.46828E+06	40.365
1950.0	82.213	-6.43932E+05	433.84	-1.48992E+06	39.909
2000.0	82.256	-6.39820E+05	435.92	-1.51166E+06	39.480
2050.0	82.296	-6.35706E+05	437.95	-1.53351E+06	39.073
2100.0	82.334	-6.31590E+05	439.94	-1.55546E+06	38.689
2150.0	82.370	-6.27473E+05	441.87	-1.57750E+06	38.325
2200.0	82.403	-6.23353E+05	443.77	-1.59964E+06	37.979
2250.0	82.435	-6.19232E+05	445.62	-1.62188E+06	37.652
2300.0	82.465	-6.15110E+05	447.43	-1.64420E+06	37.340
2350.0	82.493	-6.10986E+05	449.21	-1.66662E+06	37.044
2400.0	82.519	-6.06861E+05	450.94	-1.68912E+06	36.762
2450.0	82.544	-6.02734E+05	452.65	-1.71171E+06	36.493
2500.0	82.568	-5.98606E+05	454.31	-1.73439E+06	36.237
2550.0	82.591	-5.94477E+05	455.95	-1.75715E+06	35.993
2600.0	82.613	-5.90347E+05	457.55	-1.77998E+06	35.759
2650.0	82.633	-5.86216E+05	459.13	-1.80290E+06	35.536
2700.0	82.653	-5.82084E+05	460.67	-1.82590E+06	35.323
2750.0	82.671	-5.77951E+05	462.19	-1.84897E+06	35.119
2800.0	82.689	-5.73817E+05	463.68	-1.87211E+06	34.924
2850.0	82.706	-5.69682E+05	465.14	-1.89533E+06	34.737
2900.0	82.722	-5.65546E+05	466.58	-1.91863E+06	34.557
2950.0	82.737	-5.61410E+05	467.99	-1.94199E+06	34.385
3000.0	82.752	-5.57272E+05	469.38	-1.96543E+06	34.220

Al2FeO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	127.94	-1.98087E+06	106.27	-2.01256E+06	352.58
300.00	128.42	-1.98064E+06	107.07	-2.01276E+06	350.44
350.00	138.96	-1.97393E+06	127.71	-2.01863E+06	301.26
400.00	146.27	-1.96679E+06	146.77	-2.02550E+06	264.50
450.00	151.69	-1.95934E+06	164.32	-2.03328E+06	236.01
500.00	155.93	-1.95164E+06	180.53	-2.04191E+06	213.31
550.00	159.42	-1.94376E+06	195.56	-2.05132E+06	194.81
600.00	162.38	-1.93571E+06	209.57	-2.06145E+06	179.46
650.00	164.97	-1.92753E+06	222.67	-2.07226E+06	166.52
700.00	167.30	-1.91922E+06	234.98	-2.08370E+06	155.48
750.00	169.44	-1.91080E+06	246.60	-2.09575E+06	145.96
800.00	171.42	-1.90228E+06	257.59	-2.10835E+06	137.66
850.00	173.28	-1.89366E+06	268.04	-2.12150E+06	130.37
900.00	175.06	-1.88495E+06	278.00	-2.13515E+06	123.92
950.00	176.76	-1.87615E+06	287.51	-2.14929E+06	118.17
1000.0	178.41	-1.86727E+06	296.62	-2.16389E+06	113.03
1050.0	180.01	-1.85831E+06	305.36	-2.17894E+06	108.39
1100.0	181.57	-1.84927E+06	313.77	-2.19442E+06	104.20
1150.0	183.10	-1.84016E+06	321.88	-2.21032E+06	100.39
1200.0	184.60	-1.83096E+06	329.70	-2.22661E+06	96.919
1250.0	186.08	-1.82170E+06	337.27	-2.24328E+06	93.739
1300.0	187.53	-1.81236E+06	344.59	-2.26033E+06	90.819
1350.0	188.98	-1.80294E+06	351.70	-2.27774E+06	88.129
1400.0	190.40	-1.79346E+06	358.60	-2.29550E+06	85.644
1450.0	191.82	-1.78390E+06	365.30	-2.31359E+06	83.343
1500.0	193.23	-1.77428E+06	371.83	-2.33202E+06	81.206
1550.0	194.62	-1.76458E+06	378.19	-2.35077E+06	79.219
1600.0	196.01	-1.75482E+06	384.39	-2.36984E+06	77.365
1650.0	197.39	-1.74498E+06	390.44	-2.38921E+06	75.634
1700.0	198.76	-1.73508E+06	396.36	-2.40888E+06	74.014
1750.0	200.13	-1.72510E+06	402.14	-2.42884E+06	72.495
1800.0	201.50	-1.71506E+06	407.79	-2.44909E+06	71.069
1850.0	202.86	-1.70496E+06	413.33	-2.46962E+06	69.728
1900.0	204.21	-1.69478E+06	418.76	-2.49042E+06	68.465
1950.0	205.56	-1.68453E+06	424.08	-2.51150E+06	67.274
2000.0	206.91	-1.67422E+06	429.30	-2.53283E+06	66.149

ALH<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.369	2.49250E+05	187.86	1.93240E+05	-33.854
300.00	29.375	2.49304E+05	188.04	1.92892E+05	-33.585
350.00	29.645	2.50779E+05	192.59	1.83373E+05	-27.366
400.00	30.050	2.52271E+05	196.57	1.73642E+05	-22.675
450.00	30.517	2.53785E+05	200.14	1.63723E+05	-19.004
500.00	31.011	2.55323E+05	203.38	1.53634E+05	-16.050
550.00	31.510	2.56886E+05	206.36	1.43390E+05	-13.618
600.00	32.000	2.58474E+05	209.12	1.33002E+05	-11.579
650.00	32.475	2.60086E+05	211.70	1.22481E+05	-9.8424
700.00	32.929	2.61721E+05	214.12	1.11834E+05	-8.3450
750.00	33.357	2.63378E+05	216.41	1.01071E+05	-7.0390
800.00	33.759	2.65056E+05	218.58	90195.	-5.8890
850.00	34.131	2.66754E+05	220.63	79215.	-4.8678
900.00	34.473	2.68469E+05	222.59	68134.	-3.9543
950.00	34.783	2.70201E+05	224.47	56957.	-3.1316
1000.0	35.060	2.71947E+05	226.26	45688.	-2.3864
1050.0	35.357	2.73707E+05	227.98	34332.	-1.7079
1100.0	35.616	2.75482E+05	229.63	22892.	-1.0870
1150.0	35.845	2.77269E+05	231.22	11370.	-0.51644
1200.0	36.049	2.79066E+05	232.75	-228.98	9.9E-03
1250.0	36.234	2.80873E+05	234.22	-11903.	0.49740
1300.0	36.403	2.82689E+05	235.65	-23650.	0.95025
1350.0	36.560	2.84513E+05	237.02	-35467.	1.3723
1400.0	36.706	2.86345E+05	238.35	-47352.	1.7667
1450.0	36.844	2.88184E+05	239.65	-59302.	2.1362
1500.0	36.976	2.90029E+05	240.90	-71316.	2.4834
1550.0	37.103	2.91881E+05	242.11	-83391.	2.8102
1600.0	37.227	2.93740E+05	243.29	-95526.	3.1185
1650.0	37.348	2.95604E+05	244.44	-1.07720E+05	3.4100
1700.0	37.468	2.97474E+05	245.56	-1.19970E+05	3.6861
1750.0	37.587	2.99351E+05	246.64	-1.32275E+05	3.9481
1800.0	37.707	3.01233E+05	247.70	-1.44633E+05	4.1970
1850.0	37.827	3.03121E+05	248.74	-1.57045E+05	4.4340
1900.0	37.948	3.05016E+05	249.75	-1.69507E+05	4.6599
1950.0	38.071	3.06916E+05	250.74	-1.82019E+05	4.8756
2000.0	38.195	3.08823E+05	251.70	-1.94580E+05	5.0818
2050.0	38.323	3.10736E+05	252.65	-2.07189E+05	5.2791
2100.0	38.452	3.12655E+05	253.57	-2.19844E+05	5.4682
2150.0	38.585	3.14581E+05	254.48	-2.32546E+05	5.6496
2200.0	38.721	3.16514E+05	255.37	-2.45292E+05	5.8238
2250.0	38.860	3.18453E+05	256.24	-2.58082E+05	5.9913
2300.0	39.003	3.20400E+05	257.09	-2.70915E+05	6.1525
2350.0	39.150	3.22354E+05	257.93	-2.83791E+05	6.3078
2400.0	39.300	3.24315E+05	258.76	-2.96708E+05	6.4575
2450.0	39.455	3.26284E+05	259.57	-3.09667E+05	6.6020
2500.0	39.614	3.28260E+05	260.37	-3.22665E+05	6.7416
2550.0	39.777	3.30245E+05	261.16	-3.35704E+05	6.8764
2600.0	39.944	3.32238E+05	261.93	-3.48781E+05	7.0069
2650.0	40.116	3.34240E+05	262.69	-3.61896E+05	7.1332
2700.0	40.292	3.36250E+05	263.44	-3.75050E+05	7.2556
2750.0	40.473	3.38269E+05	264.19	-3.88241E+05	7.3742
2800.0	40.659	3.40297E+05	264.92	-4.01468E+05	7.4893
2850.0	40.850	3.42335E+05	265.64	-4.14732E+05	7.6010
2900.0	41.045	3.44382E+05	266.35	-4.28032E+05	7.7095
2950.0	41.256	3.46440E+05	267.05	-4.41367E+05	7.8149
3000.0	41.471	3.48508E+05	267.75	-4.54737E+05	7.9175

AlH2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.776	2.76774E+05	213.31	2.13175E+05	-37.346
300.00	35.810	2.76840E+05	213.53	2.12780E+05	-37.047
350.00	36.854	2.78656E+05	219.13	2.01961E+05	-30.140
400.00	38.009	2.80527E+05	224.13	1.90877E+05	-24.925
450.00	39.201	2.82458E+05	228.67	1.79556E+05	-20.842
500.00	40.388	2.84447E+05	232.86	1.68016E+05	-17.552
550.00	41.550	2.86496E+05	236.77	1.56274E+05	-14.841
600.00	42.671	2.88602E+05	240.43	1.44343E+05	-12.566
650.00	43.743	2.90762E+05	243.89	1.32234E+05	-10.626
700.00	44.761	2.92975E+05	247.17	1.19957E+05	-8.9511
750.00	45.721	2.95237E+05	250.29	1.07520E+05	-7.4882
800.00	46.621	2.97546E+05	253.27	94931.	-6.1982
850.00	47.457	2.99898E+05	256.12	82195.	-5.0510
900.00	48.230	3.02291E+05	258.86	69321.	-4.0232
950.00	48.937	3.04720E+05	261.48	56312.	-3.0962
1000.0	49.579	3.07184E+05	264.01	43174.	-2.2551
1050.0	50.171	3.09678E+05	266.44	29912.	-1.4880
1100.0	50.702	3.12200E+05	268.79	16531.	-0.78497
1150.0	51.182	3.14747E+05	271.05	3034.6	-0.13783
1200.0	51.619	3.17317E+05	273.24	-10573.	0.46022
1250.0	52.020	3.19908E+05	275.36	-24288.	1.0149
1300.0	52.390	3.22519E+05	277.40	-38108.	1.5311
1350.0	52.732	3.25147E+05	279.39	-52028.	2.0130
1400.0	53.052	3.27791E+05	281.31	-66046.	2.4641
1450.0	53.351	3.30452E+05	283.18	-80158.	2.8875
1500.0	53.633	3.33126E+05	284.99	-94363.	3.2859
1550.0	53.898	3.35815E+05	286.76	-1.08656E+05	3.6616
1600.0	54.150	3.38516E+05	288.47	-1.23037E+05	4.0167
1650.0	54.389	3.41229E+05	290.14	-1.37503E+05	4.3529
1700.0	54.618	3.43955E+05	291.77	-1.52051E+05	4.6718
1750.0	54.836	3.46691E+05	293.35	-1.66679E+05	4.9750
1800.0	55.044	3.49438E+05	294.90	-1.81385E+05	5.2635
1850.0	55.245	3.52195E+05	296.41	-1.96168E+05	5.5387
1900.0	55.438	3.54962E+05	297.89	-2.11026E+05	5.8014
1950.0	55.624	3.57739E+05	299.33	-2.25957E+05	6.0526
2000.0	55.803	3.60525E+05	300.74	-2.40959E+05	6.2930
2050.0	55.977	3.63319E+05	302.12	-2.56030E+05	6.5236
2100.0	56.145	3.66122E+05	303.47	-2.71170E+05	6.7448
2150.0	56.308	3.68934E+05	304.80	-2.86377E+05	6.9574
2200.0	56.466	3.71753E+05	306.09	-3.01650E+05	7.1619
2250.0	56.619	3.74580E+05	307.36	-3.16986E+05	7.3588
2300.0	56.768	3.77415E+05	308.61	-3.32385E+05	7.5485
2350.0	56.914	3.80257E+05	309.83	-3.47847E+05	7.7316
2400.0	57.055	3.83106E+05	311.03	-3.63368E+05	7.9083
2450.0	57.193	3.85962E+05	312.21	-3.78949E+05	8.0791
2500.0	57.327	3.88825E+05	313.37	-3.94589E+05	8.2443
2550.0	57.459	3.91695E+05	314.50	-4.10286E+05	8.4041
2600.0	57.587	3.94571E+05	315.62	-4.26039E+05	8.5590
2650.0	57.712	3.97454E+05	316.72	-4.41847E+05	8.7091
2700.0	57.834	4.00342E+05	317.80	-4.57710E+05	8.8547
2750.0	57.953	4.03237E+05	318.86	-4.73627E+05	8.9960
2800.0	58.070	4.06138E+05	319.90	-4.89596E+05	9.1333
2850.0	58.184	4.09044E+05	320.93	-5.05617E+05	9.2667
2900.0	58.295	4.11956E+05	321.95	-5.21689E+05	9.3964
2950.0	58.404	4.14873E+05	322.94	-5.37811E+05	9.5226
3000.0	58.511	4.17796E+05	323.93	-5.53983E+05	9.6455

ALH3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	40.053	1.28894E+05	206.57	67304.	-11.791
300.00	40.154	1.28968E+05	206.82	66922.	-11.652
350.00	42.889	1.31044E+05	213.22	56418.	-8.4198
400.00	45.603	1.33257E+05	219.12	45608.	-5.9556
450.00	48.239	1.35603E+05	224.65	34512.	-4.0060
500.00	50.765	1.38079E+05	229.86	23149.	-2.4183
550.00	53.163	1.40677E+05	234.81	11531.	-1.0951
600.00	55.423	1.43393E+05	239.54	-328.87	2.8E-02
650.00	57.539	1.46217E+05	244.06	-12419.	0.99802
700.00	59.506	1.49144E+05	248.39	-24731.	1.8454
750.00	61.321	1.52166E+05	252.56	-37256.	2.5947
800.00	62.982	1.55274E+05	256.57	-49985.	3.2636
850.00	64.547	1.58463E+05	260.44	-62911.	3.8659
900.00	65.933	1.61725E+05	264.17	-76027.	4.4124
950.00	67.171	1.65054E+05	267.77	-89326.	4.9113
1000.0	68.287	1.68441E+05	271.24	-1.02801E+05	5.3697
1050.0	69.299	1.71881E+05	274.60	-1.16448E+05	5.7928
1100.0	70.221	1.75369E+05	277.84	-1.30259E+05	6.1854
1150.0	71.065	1.78901E+05	280.98	-1.44231E+05	6.5510
1200.0	71.841	1.82474E+05	284.03	-1.58356E+05	6.8929
1250.0	72.555	1.86084E+05	286.97	-1.72632E+05	7.2137
1300.0	73.214	1.89729E+05	289.83	-1.87052E+05	7.5157
1350.0	73.822	1.93405E+05	292.61	-2.01613E+05	7.8007
1400.0	74.384	1.97110E+05	295.30	-2.16311E+05	8.0705
1450.0	74.902	2.00843E+05	297.92	-2.31142E+05	8.3264
1500.0	75.380	2.04600E+05	300.47	-2.46102E+05	8.5698
1550.0	75.821	2.08380E+05	302.95	-2.61188E+05	8.8017
1600.0	76.225	2.12181E+05	305.36	-2.76396E+05	9.0232
1650.0	76.595	2.16002E+05	307.71	-2.91723E+05	9.2349
1700.0	76.932	2.19840E+05	310.00	-3.07166E+05	9.4378
1750.0	77.238	2.23695E+05	312.24	-3.22722E+05	9.6325
1800.0	77.512	2.27563E+05	314.42	-3.38389E+05	9.8195
1850.0	77.791	2.31446E+05	316.55	-3.54163E+05	9.9995
1900.0	78.050	2.35342E+05	318.62	-3.70043E+05	10.173
1950.0	78.290	2.39251E+05	320.65	-3.86025E+05	10.340
2000.0	78.512	2.43171E+05	322.64	-4.02107E+05	10.502
2050.0	78.720	2.47102E+05	324.58	-4.18288E+05	10.658
2100.0	78.913	2.51043E+05	326.48	-4.34565E+05	10.809
2150.0	79.094	2.54993E+05	328.34	-4.50935E+05	10.955
2200.0	79.263	2.58952E+05	330.16	-4.67398E+05	11.097
2250.0	79.422	2.62919E+05	331.94	-4.83951E+05	11.235
2300.0	79.570	2.66894E+05	333.69	-5.00592E+05	11.369
2350.0	79.711	2.70876E+05	335.40	-5.17319E+05	11.498
2400.0	79.842	2.74865E+05	337.08	-5.34131E+05	11.625
2450.0	79.967	2.78860E+05	338.73	-5.51027E+05	11.748
2500.0	80.084	2.82861E+05	340.35	-5.68004E+05	11.867
2550.0	80.195	2.86868E+05	341.93	-5.85061E+05	11.984
2600.0	80.300	2.90881E+05	343.49	-6.02196E+05	12.098
2650.0	80.400	2.94898E+05	345.02	-6.19409E+05	12.209
2700.0	80.494	2.98921E+05	346.53	-6.36698E+05	12.317
2750.0	80.584	3.02948E+05	348.00	-6.54061E+05	12.423
2800.0	80.670	3.06979E+05	349.46	-6.71498E+05	12.527
2850.0	80.751	3.11015E+05	350.88	-6.89007E+05	12.628
2900.0	80.828	3.15054E+05	352.29	-7.06586E+05	12.727
2950.0	80.902	3.19097E+05	353.67	-7.24235E+05	12.823
3000.0	80.973	3.23144E+05	355.03	-7.41953E+05	12.918

ALH4Li

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	86.400	-1.17150E+05	87.864	-1.43347E+05	25.113
300.00	86.498	-1.16990E+05	88.399	-1.43510E+05	24.987
350.00	89.808	-1.12587E+05	101.97	-1.48275E+05	22.128
400.00	93.722	-1.08000E+05	114.21	-1.53685E+05	20.069
450.00	97.643	-1.03215E+05	125.48	-1.59680E+05	18.535
500.00	101.25	-98240.	135.96	-1.66219E+05	17.364
550.00	104.46	-93095.	145.76	-1.73265E+05	16.455
600.00	107.09	-87804.	154.97	-1.80786E+05	15.738
650.00	109.29	-82393.	163.63	-1.88753E+05	15.168
700.00	111.16	-76880.	171.80	-1.97141E+05	14.710
750.00	112.75	-71282.	179.53	-2.05926E+05	14.342
800.00	114.11	-65609.	186.85	-2.15087E+05	14.043
850.00	115.27	-59874.	193.80	-2.24604E+05	13.802
900.00	116.26	-54085.	200.42	-2.34461E+05	13.607
950.00	117.09	-48251.	206.73	-2.44641E+05	13.451
1000.0	117.78	-42378.	212.75	-2.55129E+05	13.326
1050.0	118.34	-36475.	218.51	-2.65911E+05	13.228
1100.0	118.85	-30545.	224.03	-2.76976E+05	13.152
1150.0	119.29	-24591.	229.32	-2.88311E+05	13.095
1200.0	119.70	-18616.	234.41	-2.99905E+05	13.054
1250.0	120.08	-12621.	239.30	-3.11748E+05	13.027
1300.0	120.43	-6608.6	244.02	-3.23832E+05	13.011
1350.0	120.75	-579.05	248.57	-3.36147E+05	13.006
1400.0	121.06	5466.4	252.97	-3.48686E+05	13.009
1450.0	121.36	11527.	257.22	-3.61441E+05	13.020
1500.0	121.64	17602.	261.34	-3.74406E+05	13.038
1550.0	121.91	23691.	265.33	-3.87573E+05	13.061
1600.0	122.18	29793.	269.21	-4.00937E+05	13.089
1650.0	122.45	35909.	272.97	-4.14492E+05	13.121
1700.0	122.71	42038.	276.63	-4.28232E+05	13.158
1750.0	122.96	48179.	280.19	-4.42153E+05	13.197
1800.0	123.22	54334.	283.66	-4.56250E+05	13.240
1850.0	123.48	60502.	287.04	-4.70517E+05	13.285
1900.0	123.74	66682.	290.33	-4.84952E+05	13.332
1950.0	124.00	72876.	293.55	-4.99549E+05	13.381
2000.0	124.27	79082.	296.69	-5.14306E+05	13.432

ALH2O2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.960	-5.07661E+05	284.40	-5.92455E+05	103.79
300.00	63.133	-5.07544E+05	284.79	-5.92981E+05	103.24
350.00	67.231	-5.04281E+05	294.84	-6.07476E+05	90.659
400.00	70.519	-5.00835E+05	304.04	-6.22451E+05	81.282
450.00	73.283	-4.97238E+05	312.51	-6.37868E+05	74.040
500.00	75.673	-4.93513E+05	320.36	-6.53692E+05	68.289
550.00	77.775	-4.89675E+05	327.67	-6.69895E+05	63.620
600.00	79.641	-4.85739E+05	334.52	-6.86452E+05	59.759
650.00	81.302	-4.81715E+05	340.96	-7.03341E+05	56.520
700.00	82.778	-4.77612E+05	347.04	-7.20542E+05	53.766
750.00	84.163	-4.73438E+05	352.80	-7.38039E+05	51.400
800.00	85.412	-4.69198E+05	358.27	-7.55818E+05	49.349
850.00	86.552	-4.64898E+05	363.49	-7.73863E+05	47.555
900.00	87.601	-4.60544E+05	368.46	-7.92162E+05	45.975
950.00	88.576	-4.56139E+05	373.23	-8.10706E+05	44.575
1000.0	89.487	-4.51687E+05	377.79	-8.29482E+05	43.327
1050.0	90.344	-4.47191E+05	382.18	-8.48482E+05	42.209
1100.0	91.151	-4.42654E+05	386.40	-8.67697E+05	41.202
1150.0	91.916	-4.38077E+05	390.47	-8.87120E+05	40.293
1200.0	92.641	-4.33463E+05	394.40	-9.06742E+05	39.468
1250.0	93.331	-4.28814E+05	398.20	-9.26557E+05	38.718
1300.0	93.988	-4.24130E+05	401.87	-9.46560E+05	38.032
1350.0	94.614	-4.19415E+05	405.43	-9.66742E+05	37.405
1400.0	95.212	-4.14670E+05	408.88	-9.87101E+05	36.828
1450.0	95.782	-4.09895E+05	412.23	-1.00763E+06	36.298
1500.0	96.326	-4.05092E+05	415.49	-1.02832E+06	35.808
1550.0	96.845	-4.00262E+05	418.65	-1.04918E+06	35.356
1600.0	97.340	-3.95408E+05	421.74	-1.07019E+06	34.937
1650.0	97.812	-3.90529E+05	424.74	-1.09135E+06	34.548
1700.0	98.262	-3.85627E+05	427.67	-1.11266E+06	34.187
1750.0	98.689	-3.80703E+05	430.52	-1.13411E+06	33.851
1800.0	99.095	-3.75758E+05	433.31	-1.15571E+06	33.537
1850.0	99.480	-3.70794E+05	436.03	-1.17744E+06	33.244
1900.0	99.844	-3.65811E+05	438.68	-1.19931E+06	32.971
1950.0	100.19	-3.60810E+05	441.28	-1.22131E+06	32.714
2000.0	100.51	-3.55792E+05	443.82	-1.24344E+06	32.474
2050.0	100.81	-3.50759E+05	446.31	-1.26569E+06	32.249
2100.0	101.10	-3.45711E+05	448.74	-1.28807E+06	32.038
2150.0	101.36	-3.40649E+05	451.12	-1.31057E+06	31.840
2200.0	101.61	-3.35575E+05	453.46	-1.33318E+06	31.653
2250.0	101.83	-3.30489E+05	455.74	-1.35591E+06	31.477
2300.0	102.04	-3.25392E+05	457.98	-1.37875E+06	31.312
2350.0	102.23	-3.20285E+05	460.18	-1.40171E+06	31.156
2400.0	102.40	-3.15169E+05	462.33	-1.42477E+06	31.009
2450.0	102.60	-3.10044E+05	464.45	-1.44794E+06	30.870
2500.0	102.79	-3.04910E+05	466.52	-1.47121E+06	30.739
2550.0	102.97	-2.99766E+05	468.56	-1.49459E+06	30.615
2600.0	103.14	-2.94613E+05	470.56	-1.51807E+06	30.498
2650.0	103.30	-2.89452E+05	472.53	-1.54165E+06	30.387
2700.0	103.45	-2.84283E+05	474.46	-1.56532E+06	30.282
2750.0	103.60	-2.79107E+05	476.36	-1.58909E+06	30.183
2800.0	103.74	-2.73923E+05	478.23	-1.61296E+06	30.089
2850.0	103.87	-2.68733E+05	480.06	-1.63692E+06	30.001
2900.0	104.00	-2.63536E+05	481.87	-1.66096E+06	29.916
2950.0	104.12	-2.58333E+05	483.65	-1.68510E+06	29.837
3000.0	104.24	-2.53124E+05	485.40	-1.70933E+06	29.761

ALH3O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	93.149	-1.28449E+06	71.128	-1.30569E+06	228.75
300.00	93.538	-1.28432E+06	71.705	-1.30583E+06	227.36
350.00	104.03	-1.27938E+06	86.912	-1.30980E+06	195.47
400.00	114.52	-1.27391E+06	101.49	-1.31451E+06	171.65
450.00	125.01	-1.26792E+06	115.58	-1.31994E+06	153.21
500.00	135.49	-1.26141E+06	129.29	-1.32606E+06	138.53
550.00	145.98	-1.25438E+06	142.70	-1.33286E+06	126.58
600.00	156.47	-1.24681E+06	155.85	-1.34033E+06	116.68
650.00	166.96	-1.23873E+06	168.79	-1.34844E+06	108.36
700.00	177.45	-1.23012E+06	181.55	-1.35720E+06	101.27

ALH3O3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	87.218	-1.01267E+06	301.54	-1.10257E+06	193.16
300.00	87.498	-1.01251E+06	302.08	-1.10313E+06	192.07
350.00	94.104	-1.00796E+06	316.08	-1.11859E+06	166.94
400.00	99.392	-1.00312E+06	329.00	-1.13472E+06	148.18
450.00	103.83	-9.98034E+05	340.97	-1.15147E+06	133.66
500.00	107.66	-9.92745E+05	352.12	-1.16880E+06	122.10
550.00	111.02	-9.87276E+05	362.54	-1.18667E+06	112.70
600.00	113.99	-9.81650E+05	372.33	-1.20505E+06	104.91
650.00	116.64	-9.75883E+05	381.56	-1.22390E+06	98.351
700.00	118.98	-9.69991E+05	390.29	-1.24319E+06	92.766
750.00	121.17	-9.63986E+05	398.57	-1.26292E+06	87.955
800.00	123.14	-9.57877E+05	406.46	-1.28304E+06	83.772
850.00	124.93	-9.51675E+05	413.98	-1.30356E+06	80.105
900.00	126.57	-9.45387E+05	421.17	-1.32444E+06	76.866
950.00	128.10	-9.39019E+05	428.05	-1.34567E+06	73.988
1000.0	129.51	-9.32579E+05	434.66	-1.36724E+06	71.415
1050.0	130.84	-9.26070E+05	441.01	-1.38913E+06	69.104
1100.0	132.10	-9.19496E+05	447.13	-1.41133E+06	67.017
1150.0	133.28	-9.12861E+05	453.02	-1.43384E+06	65.125
1200.0	134.40	-9.06169E+05	458.72	-1.45663E+06	63.404
1250.0	135.46	-8.99422E+05	464.23	-1.47971E+06	61.832
1300.0	136.47	-8.92624E+05	469.56	-1.50305E+06	60.392
1350.0	137.44	-8.85776E+05	474.73	-1.52666E+06	59.069
1400.0	138.35	-8.78881E+05	479.74	-1.55052E+06	57.849
1450.0	139.23	-8.71941E+05	484.61	-1.57463E+06	56.723
1500.0	140.06	-8.64959E+05	489.35	-1.59898E+06	55.680
1550.0	140.86	-8.57936E+05	493.95	-1.62357E+06	54.712
1600.0	141.62	-8.50873E+05	498.44	-1.64838E+06	53.813
1650.0	142.34	-8.43774E+05	502.81	-1.67341E+06	52.974
1700.0	143.03	-8.36640E+05	507.07	-1.69865E+06	52.192
1750.0	143.68	-8.29472E+05	511.22	-1.72411E+06	51.461
1800.0	144.30	-8.22273E+05	515.28	-1.74978E+06	50.776
1850.0	144.89	-8.15043E+05	519.24	-1.77564E+06	50.134
1900.0	145.44	-8.07785E+05	523.11	-1.80170E+06	49.531
1950.0	145.97	-8.00499E+05	526.90	-1.82795E+06	48.964
2000.0	146.46	-7.93189E+05	530.60	-1.85439E+06	48.430
2050.0	146.92	-7.85854E+05	534.22	-1.88101E+06	47.927
2100.0	147.35	-7.78497E+05	537.77	-1.90781E+06	47.453
2150.0	147.76	-7.71119E+05	541.24	-1.93478E+06	47.005
2200.0	148.13	-7.63722E+05	544.64	-1.96193E+06	46.581
2250.0	148.47	-7.56306E+05	547.97	-1.98924E+06	46.180
2300.0	148.79	-7.48875E+05	551.24	-2.01673E+06	45.800
2350.0	149.08	-7.41428E+05	554.44	-2.04437E+06	45.440
2400.0	149.33	-7.33968E+05	557.58	-2.07217E+06	45.098
2450.0	149.64	-7.26493E+05	560.67	-2.10013E+06	44.774
2500.0	149.93	-7.19004E+05	563.69	-2.12823E+06	44.466
2550.0	150.20	-7.11501E+05	566.66	-2.15649E+06	44.173
2600.0	150.46	-7.03984E+05	569.58	-2.18490E+06	43.894
2650.0	150.70	-6.96455E+05	572.45	-2.21345E+06	43.629
2700.0	150.94	-6.88914E+05	575.27	-2.24214E+06	43.376
2750.0	151.16	-6.81361E+05	578.04	-2.27098E+06	43.135
2800.0	151.37	-6.73798E+05	580.77	-2.29995E+06	42.905
2850.0	151.58	-6.66224E+05	583.45	-2.32905E+06	42.686
2900.0	151.77	-6.58641E+05	586.09	-2.35829E+06	42.476
2950.0	151.95	-6.51048E+05	588.68	-2.38766E+06	42.276
3000.0	152.13	-6.43446E+05	591.24	-2.41716E+06	42.085

Al₂H₂O₄<BOEHMITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	131.27	-1.98071E+06	96.860	-2.00958E+06	352.06
300.00	131.34	-1.98046E+06	97.672	-2.00976E+06	349.92
350.00	133.09	-1.97385E+06	118.05	-2.01517E+06	300.74
400.00	134.85	-1.96715E+06	135.94	-2.02153E+06	263.98
450.00	136.61	-1.96037E+06	151.92	-2.02873E+06	235.48
500.00	138.36	-1.95349E+06	166.41	-2.03670E+06	212.77

Al2H2O4<DIASPORE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	106.21	-1.99912E+06	70.668	-2.02018E+06	353.92
300.00	106.27	-1.99892E+06	71.325	-2.02032E+06	351.76
350.00	108.03	-1.99356E+06	87.839	-2.02430E+06	302.10
400.00	109.79	-1.98812E+06	102.38	-2.02907E+06	264.96
450.00	111.55	-1.98258E+06	115.41	-2.03452E+06	236.15
500.00	113.30	-1.97696E+06	127.26	-2.04059E+06	213.17

Al2H6O6<BAYERITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	186.15	-2.57860E+06	128.87	-2.61702E+06	458.48
300.00	186.86	-2.57826E+06	130.02	-2.61726E+06	455.69
350.00	205.94	-2.56844E+06	160.26	-2.62453E+06	391.68
400.00	225.02	-2.55766E+06	189.00	-2.63326E+06	343.86
450.00	244.09	-2.54593E+06	216.61	-2.64341E+06	306.83
500.00	263.17	-2.53325E+06	243.31	-2.65491E+06	277.35
550.00	282.25	-2.51962E+06	269.29	-2.66773E+06	253.35
600.00	301.33	-2.50503E+06	294.67	-2.68183E+06	233.47
650.00	320.41	-2.48948E+06	319.54	-2.69718E+06	216.74
700.00	339.49	-2.47299E+06	343.98	-2.71377E+06	202.50
750.00	358.57	-2.45553E+06	368.06	-2.73158E+06	190.24
800.00	377.65	-2.43713E+06	391.81	-2.75057E+06	179.59

Al2H6O6<GIBBSITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	186.15	-2.58864E+06	140.05	-2.63040E+06	460.82
300.00	186.86	-2.58830E+06	141.21	-2.63066E+06	458.03
350.00	205.94	-2.57848E+06	171.45	-2.63848E+06	393.76
400.00	225.02	-2.56770E+06	200.19	-2.64778E+06	345.76
450.00	244.09	-2.55597E+06	227.79	-2.65848E+06	308.58
500.00	263.17	-2.54329E+06	254.50	-2.67054E+06	278.98
550.00	282.25	-2.52966E+06	280.48	-2.68392E+06	254.89
600.00	301.33	-2.51507E+06	305.85	-2.69858E+06	234.93
650.00	320.41	-2.49952E+06	330.73	-2.71450E+06	218.13
700.00	339.49	-2.48303E+06	355.17	-2.73165E+06	203.83
750.00	358.57	-2.46557E+06	379.24	-2.75001E+06	191.52
800.00	377.65	-2.44717E+06	402.99	-2.76956E+06	180.83

Al₂H₄O₉Si₂<DICKITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	238.73	-4.09961E+06	197.11	-4.15838E+06	728.51
300.00	239.85	-4.09917E+06	198.59	-4.15874E+06	724.08
350.00	265.17	-4.08651E+06	237.57	-4.16966E+06	622.27
400.00	284.03	-4.07276E+06	274.26	-4.18246E+06	546.16
450.00	299.15	-4.05816E+06	308.62	-4.19704E+06	487.17
500.00	311.94	-4.04288E+06	340.82	-4.21329E+06	440.15
550.00	323.20	-4.02700E+06	371.09	-4.23109E+06	401.83
600.00	333.44	-4.01058E+06	399.65	-4.25037E+06	370.02
650.00	342.94	-3.99366E+06	426.72	-4.27103E+06	343.22
700.00	351.91	-3.97629E+06	452.47	-4.29302E+06	320.34
750.00	360.49	-3.95848E+06	477.04	-4.31626E+06	300.60
800.00	368.77	-3.94025E+06	500.57	-4.34070E+06	283.41
850.00	376.82	-3.92161E+06	523.17	-4.36630E+06	268.31
900.00	384.69	-3.90257E+06	544.93	-4.39301E+06	254.96
950.00	392.42	-3.88314E+06	565.94	-4.42078E+06	243.07
1000.0	400.03	-3.86333E+06	586.26	-4.44959E+06	232.42

Al₂H₄O₉Si₂<HALLOYSITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	245.01	-4.08204E+06	203.38	-4.14268E+06	725.76
300.00	246.13	-4.08158E+06	204.90	-4.14305E+06	721.35
350.00	271.44	-4.06861E+06	244.85	-4.15431E+06	619.98
400.00	290.31	-4.05454E+06	282.38	-4.16750E+06	544.21
450.00	305.43	-4.03964E+06	317.48	-4.18250E+06	485.48
500.00	318.21	-4.02404E+06	350.34	-4.19921E+06	438.68
550.00	329.48	-4.00784E+06	381.20	-4.21750E+06	400.54
600.00	339.71	-3.99111E+06	410.32	-4.23730E+06	368.88
650.00	349.21	-3.97388E+06	437.89	-4.25851E+06	342.21
700.00	358.18	-3.95620E+06	464.10	-4.28107E+06	319.45
750.00	366.76	-3.93807E+06	489.11	-4.30490E+06	299.81
800.00	375.04	-3.91952E+06	513.04	-4.32996E+06	282.71
850.00	383.10	-3.90057E+06	536.02	-4.35619E+06	267.69
900.00	390.97	-3.88122E+06	558.14	-4.38355E+06	254.41
950.00	398.70	-3.86148E+06	579.49	-4.41199E+06	242.58
1000.0	406.31	-3.84135E+06	600.13	-4.44148E+06	231.99

Al2H4O9Si2<KAOLINITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	245.01	-4.10086E+06	203.09	-4.16142E+06	729.04
300.00	246.13	-4.10041E+06	204.61	-4.16179E+06	724.61
350.00	271.44	-4.08744E+06	244.56	-4.17303E+06	622.78
400.00	290.31	-4.07337E+06	282.09	-4.18621E+06	546.65
450.00	305.43	-4.05847E+06	317.19	-4.20120E+06	487.65
500.00	318.21	-4.04287E+06	350.04	-4.21789E+06	440.63
550.00	329.48	-4.02667E+06	380.91	-4.23617E+06	402.31
600.00	339.71	-4.00994E+06	410.02	-4.25595E+06	370.50
650.00	349.21	-3.99271E+06	437.60	-4.27715E+06	343.71
700.00	358.18	-3.97502E+06	463.81	-4.29969E+06	320.84

AlI<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.104	67395.	247.84	-6497.3	1.1383
300.00	36.124	67462.	248.06	-6956.0	1.2111
350.00	36.560	69280.	253.66	-19502.	2.9105
400.00	36.847	71115.	258.57	-32311.	4.2192
450.00	37.049	72963.	262.92	-45350.	5.2639
500.00	37.197	74819.	266.83	-58595.	6.1212
550.00	37.312	76682.	270.38	-72027.	6.8403
600.00	37.404	78550.	273.63	-85628.	7.4544
650.00	37.479	80422.	276.63	-99385.	7.9865
700.00	37.544	82298.	279.41	-1.13287E+05	8.4534
750.00	37.601	84177.	282.00	-1.27323E+05	8.8673
800.00	37.652	86058.	284.43	-1.41484E+05	9.2377
850.00	37.699	87942.	286.71	-1.55763E+05	9.5718
900.00	37.743	89828.	288.87	-1.70153E+05	9.8752
950.00	37.785	91716.	290.91	-1.84648E+05	10.152
1000.0	37.825	93606.	292.85	-1.99243E+05	10.407
1050.0	37.864	95498.	294.70	-2.13932E+05	10.642
1100.0	37.903	97393.	296.46	-2.28711E+05	10.860
1150.0	37.941	99289.	298.14	-2.43576E+05	11.063
1200.0	37.979	1.01187E+05	299.76	-2.58524E+05	11.253
1250.0	38.018	1.03087E+05	301.31	-2.73551E+05	11.431
1300.0	38.056	1.04988E+05	302.80	-2.88654E+05	11.598
1350.0	38.095	1.06892E+05	304.24	-3.03830E+05	11.756
1400.0	38.135	1.08798E+05	305.63	-3.19077E+05	11.905
1450.0	38.175	1.10706E+05	306.96	-3.34392E+05	12.046
1500.0	38.216	1.12615E+05	308.26	-3.49773E+05	12.180
1550.0	38.257	1.14527E+05	309.51	-3.65217E+05	12.307
1600.0	38.299	1.16441E+05	310.73	-3.80723E+05	12.429
1650.0	38.343	1.18357E+05	311.91	-3.96289E+05	12.545
1700.0	38.387	1.20275E+05	313.05	-4.11914E+05	12.656
1750.0	38.432	1.22196E+05	314.17	-4.27594E+05	12.763
1800.0	38.477	1.24119E+05	315.25	-4.43330E+05	12.865
1850.0	38.524	1.26044E+05	316.30	-4.59119E+05	12.963
1900.0	38.572	1.27971E+05	317.33	-4.74960E+05	13.057
1950.0	38.621	1.29901E+05	318.33	-4.90851E+05	13.148
2000.0	38.671	1.31833E+05	319.31	-5.06793E+05	13.236
2050.0	38.722	1.33768E+05	320.27	-5.22782E+05	13.320
2100.0	38.773	1.35705E+05	321.20	-5.38819E+05	13.402
2150.0	38.826	1.37645E+05	322.12	-5.54902E+05	13.481
2200.0	38.880	1.39588E+05	323.01	-5.71030E+05	13.558
2250.0	38.936	1.41533E+05	323.88	-5.87203E+05	13.632
2300.0	38.992	1.43482E+05	324.74	-6.03418E+05	13.704
2350.0	39.049	1.45433E+05	325.58	-6.19676E+05	13.774
2400.0	39.107	1.47387E+05	326.40	-6.35976E+05	13.841
2450.0	39.167	1.49343E+05	327.21	-6.52316E+05	13.907
2500.0	39.227	1.51303E+05	328.00	-6.68696E+05	13.971
2550.0	39.289	1.53266E+05	328.78	-6.85116E+05	14.034
2600.0	39.352	1.55232E+05	329.54	-7.01574E+05	14.094
2650.0	39.416	1.57201E+05	330.29	-7.18070E+05	14.154
2700.0	39.481	1.59174E+05	331.03	-7.34603E+05	14.211
2750.0	39.547	1.61150E+05	331.75	-7.51172E+05	14.268
2800.0	39.614	1.63129E+05	332.47	-7.67778E+05	14.323
2850.0	39.683	1.65111E+05	333.17	-7.84419E+05	14.376
2900.0	39.752	1.67097E+05	333.86	-8.01094E+05	14.429
2950.0	39.823	1.69086E+05	334.54	-8.17804E+05	14.480
3000.0	39.895	1.71079E+05	335.21	-8.34548E+05	14.530

AlI2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.625	-33813.	328.82	-1.31851E+05	23.099
300.00	54.667	-33712.	329.16	-1.32460E+05	23.063
350.00	55.564	-30954.	337.66	-1.49135E+05	22.257
400.00	56.145	-28161.	345.12	-1.66209E+05	21.704
450.00	56.543	-25343.	351.76	-1.83634E+05	21.315
500.00	56.827	-22508.	357.73	-2.01373E+05	21.037
550.00	57.038	-19661.	363.16	-2.19398E+05	20.836
600.00	57.198	-16805.	368.13	-2.37681E+05	20.691
650.00	57.325	-13942.	372.71	-2.56204E+05	20.588
700.00	57.426	-11073.	376.96	-2.74947E+05	20.516
750.00	57.510	-8199.8	380.93	-2.93895E+05	20.468
800.00	57.580	-5322.5	384.64	-3.13035E+05	20.439
850.00	57.641	-2441.9	388.13	-3.32356E+05	20.424
900.00	57.694	441.48	391.43	-3.51845E+05	20.420
950.00	57.741	3327.4	394.55	-3.71496E+05	20.426
1000.0	57.784	6215.5	397.51	-3.91298E+05	20.439
1050.0	57.824	9105.8	400.33	-4.11245E+05	20.458
1100.0	57.862	11998.	403.02	-4.31329E+05	20.482
1150.0	57.898	14892.	405.60	-4.51545E+05	20.509
1200.0	57.932	17788.	408.06	-4.71887E+05	20.540
1250.0	57.966	20685.	410.43	-4.92350E+05	20.574
1300.0	57.999	23584.	412.70	-5.12928E+05	20.609
1350.0	58.032	26485.	414.89	-5.33618E+05	20.646
1400.0	58.065	29387.	417.00	-5.54416E+05	20.685
1450.0	58.098	32292.	419.04	-5.75318E+05	20.725
1500.0	58.132	35197.	421.01	-5.96319E+05	20.765
1550.0	58.166	38105.	422.92	-6.17418E+05	20.806
1600.0	58.201	41014.	424.76	-6.38610E+05	20.848
1650.0	58.236	43925.	426.56	-6.59893E+05	20.890
1700.0	58.272	46837.	428.30	-6.81265E+05	20.932
1750.0	58.309	49752.	429.99	-7.02722E+05	20.975
1800.0	58.347	52668.	431.63	-7.24262E+05	21.017
1850.0	58.386	55587.	433.23	-7.45884E+05	21.059
1900.0	58.426	58507.	434.78	-7.67584E+05	21.102
1950.0	58.467	61429.	436.30	-7.89362E+05	21.144
2000.0	58.510	64354.	437.78	-8.11214E+05	21.186
2050.0	58.553	67280.	439.23	-8.33140E+05	21.228
2100.0	58.597	70209.	440.64	-8.55136E+05	21.270
2150.0	58.643	73140.	442.02	-8.77203E+05	21.311
2200.0	58.690	76073.	443.37	-8.99338E+05	21.352
2250.0	58.738	79009.	444.69	-9.21539E+05	21.393
2300.0	58.787	81947.	445.98	-9.43806E+05	21.434
2350.0	58.837	84888.	447.24	-9.66137E+05	21.474
2400.0	58.889	87831.	448.48	-9.88530E+05	21.514
2450.0	58.942	90777.	449.70	-1.01098E+06	21.554
2500.0	58.996	93725.	450.89	-1.03350E+06	21.593
2550.0	59.052	96676.	452.06	-1.05607E+06	21.632
2600.0	59.109	99630.	453.21	-1.07871E+06	21.671
2650.0	59.167	1.02587E+05	454.33	-1.10139E+06	21.709
2700.0	59.227	1.05547E+05	455.44	-1.12414E+06	21.747
2750.0	59.288	1.08510E+05	456.53	-1.14694E+06	21.785
2800.0	59.350	1.11476E+05	457.60	-1.16979E+06	21.822
2850.0	59.413	1.14445E+05	458.65	-1.19270E+06	21.859
2900.0	59.478	1.17417E+05	459.68	-1.21565E+06	21.896
2950.0	59.544	1.20393E+05	460.70	-1.23866E+06	21.932
3000.0	59.612	1.23372E+05	461.70	-1.26172E+06	21.968

AlI3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	77.405	-1.91331E+05	373.83	-3.02787E+05	53.046
300.00	77.473	-1.91188E+05	374.31	-3.03479E+05	52.839
350.00	78.935	-1.87275E+05	386.37	-3.22503E+05	48.130
400.00	79.885	-1.83303E+05	396.97	-3.42092E+05	44.671
450.00	80.538	-1.79291E+05	406.42	-3.62181E+05	42.040
500.00	81.006	-1.75252E+05	414.93	-3.82718E+05	39.981
550.00	81.354	-1.71193E+05	422.67	-4.03661E+05	38.336
600.00	81.619	-1.67118E+05	429.76	-4.24974E+05	36.996
650.00	81.827	-1.63032E+05	436.30	-4.46628E+05	35.891
700.00	81.993	-1.58936E+05	442.37	-4.68597E+05	34.966
750.00	82.127	-1.54833E+05	448.03	-4.90859E+05	34.186
800.00	82.238	-1.50724E+05	453.34	-5.13394E+05	33.520
850.00	82.330	-1.46609E+05	458.33	-5.36187E+05	32.949
900.00	82.408	-1.42491E+05	463.04	-5.59222E+05	32.456
950.00	82.475	-1.38369E+05	467.49	-5.82487E+05	32.027
1000.0	82.532	-1.34244E+05	471.72	-6.05968E+05	31.652
1050.0	82.582	-1.30116E+05	475.75	-6.29656E+05	31.323
1100.0	82.626	-1.25985E+05	479.60	-6.53540E+05	31.033
1150.0	82.665	-1.21853E+05	483.27	-6.77612E+05	30.777
1200.0	82.699	-1.17719E+05	486.79	-7.01864E+05	30.551
1250.0	82.730	-1.13583E+05	490.16	-7.26289E+05	30.349
1300.0	82.757	-1.09446E+05	493.41	-7.50879E+05	30.170
1350.0	82.782	-1.05308E+05	496.53	-7.75628E+05	30.010
1400.0	82.805	-1.01168E+05	499.54	-8.00530E+05	29.867
1450.0	82.825	-97027.	502.45	-8.25580E+05	29.740
1500.0	82.844	-92885.	505.26	-8.50774E+05	29.626
1550.0	82.862	-88743.	507.98	-8.76105E+05	29.524
1600.0	82.878	-84599.	510.61	-9.01570E+05	29.432
1650.0	82.892	-80455.	513.16	-9.27164E+05	29.351
1700.0	82.906	-76310.	515.63	-9.52884E+05	29.278
1750.0	82.919	-72164.	518.04	-9.78726E+05	29.213
1800.0	82.931	-68018.	520.37	-1.00469E+06	29.155
1850.0	82.942	-63871.	522.64	-1.03076E+06	29.103
1900.0	82.952	-59724.	524.86	-1.05695E+06	29.057
1950.0	82.962	-55576.	527.01	-1.08325E+06	29.016
2000.0	82.971	-51428.	529.11	-1.10965E+06	28.980
2050.0	82.980	-47279.	531.16	-1.13616E+06	28.949
2100.0	82.988	-43130.	533.16	-1.16277E+06	28.921
2150.0	82.996	-38980.	535.11	-1.18947E+06	28.898
2200.0	83.004	-34830.	537.02	-1.21628E+06	28.877
2250.0	83.011	-30680.	538.89	-1.24317E+06	28.860
2300.0	83.017	-26529.	540.71	-1.27016E+06	28.846
2350.0	83.023	-22378.	542.50	-1.29724E+06	28.834
2400.0	83.029	-18227.	544.24	-1.32441E+06	28.824
2450.0	83.035	-14075.	545.96	-1.35167E+06	28.817
2500.0	83.041	-9923.2	547.63	-1.37901E+06	28.812
2550.0	83.046	-5771.0	549.28	-1.40643E+06	28.809
2600.0	83.051	-1618.6	550.89	-1.43393E+06	28.807
2650.0	83.055	2534.1	552.47	-1.46152E+06	28.808
2700.0	83.060	6687.0	554.03	-1.48918E+06	28.809
2750.0	83.064	10840.	555.55	-1.51692E+06	28.812
2800.0	83.068	14993.	557.05	-1.54474E+06	28.817
2850.0	83.072	19147.	558.52	-1.57263E+06	28.822
2900.0	83.076	23301.	559.96	-1.60059E+06	28.829
2950.0	83.080	27455.	561.38	-1.62862E+06	28.837
3000.0	83.083	31609.	562.78	-1.65673E+06	28.845

A12I6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	171.10	-5.06264E+05	584.23	-6.80452E+05	119.21
300.00	171.24	-5.05947E+05	585.29	-6.81534E+05	118.66
350.00	174.09	-4.97309E+05	611.91	-7.11479E+05	106.18
400.00	175.99	-4.88554E+05	635.29	-7.42671E+05	96.980
450.00	177.33	-4.79719E+05	656.10	-7.74966E+05	89.953
500.00	178.32	-4.70827E+05	674.84	-8.08247E+05	84.435
550.00	179.07	-4.61891E+05	691.87	-8.42421E+05	80.004
600.00	179.67	-4.52922E+05	707.48	-8.77410E+05	76.383
650.00	180.14	-4.43927E+05	721.88	-9.13149E+05	73.380
700.00	180.52	-4.34910E+05	735.24	-9.49581E+05	70.857
750.00	180.84	-4.25876E+05	747.71	-9.86659E+05	68.715
800.00	181.09	-4.16827E+05	759.39	-1.02434E+06	66.881
850.00	181.31	-4.07767E+05	770.38	-1.06259E+06	65.297
900.00	181.48	-3.98697E+05	780.74	-1.10137E+06	63.920
950.00	181.62	-3.89619E+05	790.56	-1.14065E+06	62.716
1000.0	181.73	-3.80535E+05	799.88	-1.18041E+06	61.657
1050.0	181.84	-3.71446E+05	808.75	-1.22063E+06	60.722
1100.0	181.94	-3.62352E+05	817.21	-1.26128E+06	59.892
1150.0	182.02	-3.53253E+05	825.30	-1.30235E+06	59.153
1200.0	182.09	-3.44150E+05	833.05	-1.34381E+06	58.493
1250.0	182.16	-3.35043E+05	840.48	-1.38565E+06	57.902
1300.0	182.21	-3.25934E+05	847.63	-1.42785E+06	57.370
1350.0	182.27	-3.16822E+05	854.51	-1.47040E+06	56.892
1400.0	182.31	-3.07707E+05	861.13	-1.51330E+06	56.460
1450.0	182.35	-2.98591E+05	867.53	-1.55651E+06	56.070
1500.0	182.39	-2.89472E+05	873.72	-1.60005E+06	55.717
1550.0	182.42	-2.80352E+05	879.70	-1.64388E+06	55.397
1600.0	182.45	-2.71230E+05	885.49	-1.68801E+06	55.107
1650.0	182.48	-2.62107E+05	891.10	-1.73243E+06	54.843
1700.0	182.51	-2.52982E+05	896.55	-1.77712E+06	54.603
1750.0	182.53	-2.43856E+05	901.84	-1.82208E+06	54.385
1800.0	182.55	-2.34729E+05	906.99	-1.86730E+06	54.186
1850.0	182.57	-2.25601E+05	911.99	-1.91278E+06	54.006
1900.0	182.59	-2.16472E+05	916.86	-1.95850E+06	53.842
1950.0	182.61	-2.07342E+05	921.60	-2.00446E+06	53.692
2000.0	182.62	-1.98211E+05	926.22	-2.05066E+06	53.556
2050.0	182.64	-1.89079E+05	930.73	-2.09708E+06	53.433
2100.0	182.65	-1.79947E+05	935.13	-2.14373E+06	53.321
2150.0	182.66	-1.70814E+05	939.43	-2.19059E+06	53.219
2200.0	182.67	-1.61681E+05	943.63	-2.23767E+06	53.128
2250.0	182.69	-1.52547E+05	947.74	-2.28495E+06	53.045
2300.0	182.70	-1.43412E+05	951.75	-2.33244E+06	52.970
2350.0	182.71	-1.34277E+05	955.68	-2.38013E+06	52.903
2400.0	182.71	-1.25142E+05	959.53	-2.42801E+06	52.843
2450.0	182.72	-1.16006E+05	963.30	-2.47608E+06	52.789
2500.0	182.73	-1.06869E+05	966.99	-2.52434E+06	52.742
2550.0	182.74	-97733.	970.61	-2.57278E+06	52.700
2600.0	182.75	-88596.	974.15	-2.62140E+06	52.663
2650.0	182.75	-79458.	977.63	-2.67019E+06	52.631
2700.0	182.76	-70320.	981.05	-2.71916E+06	52.604
2750.0	182.76	-61182.	984.40	-2.76829E+06	52.581
2800.0	182.77	-52044.	987.70	-2.81760E+06	52.562
2850.0	182.78	-42905.	990.93	-2.86706E+06	52.546
2900.0	182.78	-33767.	994.11	-2.91669E+06	52.534
2950.0	182.79	-24627.	997.24	-2.96647E+06	52.525
3000.0	182.79	-15488.	1000.3	-3.01641E+06	52.519

ALKO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	76.120	-1.13060E+06	85.550	-1.15611E+06	202.54
300.00	76.367	-1.13046E+06	86.022	-1.15627E+06	201.32
350.00	82.022	-1.12649E+06	98.241	-1.16088E+06	173.25
400.00	86.332	-1.12228E+06	109.49	-1.16607E+06	152.27
450.00	89.859	-1.11787E+06	119.86	-1.17181E+06	136.02
500.00	92.901	-1.11330E+06	129.49	-1.17805E+06	123.07
550.00	95.625	-1.10859E+06	138.48	-1.18475E+06	112.52
600.00	98.133	-1.10374E+06	146.91	-1.19189E+06	103.76
650.00	100.49	-1.09878E+06	154.85	-1.19943E+06	96.385
700.00	102.73	-1.09369E+06	162.38	-1.20736E+06	90.092
750.00	104.90	-1.08850E+06	169.55	-1.21566E+06	84.664
800.00	107.00	-1.08321E+06	176.38	-1.22431E+06	79.937
810.00	107.41	-1.08213E+06	177.72	-1.22608E+06	79.065
810.00	101.69	-1.08084E+06	179.31	-1.22608E+06	79.065
850.00	101.97	-1.07677E+06	184.22	-1.23336E+06	75.791
900.00	102.50	-1.07166E+06	190.07	-1.24271E+06	72.123
950.00	103.19	-1.06651E+06	195.63	-1.25236E+06	68.858
1000.0	104.00	-1.06133E+06	200.94	-1.26227E+06	65.933
1050.0	104.92	-1.05611E+06	206.03	-1.27245E+06	63.299
1100.0	105.91	-1.05084E+06	210.94	-1.28287E+06	60.917
1150.0	106.98	-1.04552E+06	215.67	-1.29354E+06	58.753
1200.0	108.11	-1.04014E+06	220.25	-1.30444E+06	56.779
1250.0	109.29	-1.03471E+06	224.68	-1.31556E+06	54.973
1300.0	110.51	-1.02921E+06	228.99	-1.32690E+06	53.314
1350.0	111.76	-1.02366E+06	233.19	-1.33846E+06	51.787
1400.0	113.05	-1.01804E+06	237.27	-1.35022E+06	50.376
1450.0	114.36	-1.01235E+06	241.26	-1.36218E+06	49.070
1500.0	115.70	-1.00660E+06	245.16	-1.37434E+06	47.858
1550.0	117.06	-1.00078E+06	248.98	-1.38670E+06	46.730
1600.0	118.43	-9.94892E+05	252.72	-1.39924E+06	45.679
1650.0	119.82	-9.88936E+05	256.38	-1.41197E+06	44.698
1700.0	121.22	-9.82910E+05	259.98	-1.42488E+06	43.780
1750.0	122.64	-9.76814E+05	263.52	-1.43797E+06	42.920
1800.0	124.07	-9.70646E+05	266.99	-1.45123E+06	42.113
1850.0	125.50	-9.64407E+05	270.41	-1.46466E+06	41.354
1900.0	126.95	-9.58096E+05	273.78	-1.47827E+06	40.639
1950.0	128.40	-9.51712E+05	277.09	-1.49204E+06	39.966
1986.0	129.45	-9.47071E+05	279.45	-1.50206E+06	39.505
1986.0	130.00	-8.65071E+05	320.74	-1.50206E+06	39.505
2000.0	130.00	-8.63251E+05	321.65	-1.50656E+06	39.346
2050.0	130.00	-8.56751E+05	324.86	-1.52272E+06	38.798
2100.0	130.00	-8.50251E+05	328.00	-1.53904E+06	38.281
2150.0	130.00	-8.43751E+05	331.05	-1.55552E+06	37.791
2200.0	130.00	-8.37251E+05	334.04	-1.57215E+06	37.327
2250.0	130.00	-8.30751E+05	336.96	-1.58892E+06	36.886
2300.0	130.00	-8.24251E+05	339.82	-1.60584E+06	36.469
2350.0	130.00	-8.17751E+05	342.62	-1.62290E+06	36.072
2400.0	130.00	-8.11251E+05	345.35	-1.64010E+06	35.695
2450.0	130.00	-8.04751E+05	348.04	-1.65744E+06	35.336
2500.0	130.00	-7.98251E+05	350.66	-1.67490E+06	34.994
2550.0	130.00	-7.91751E+05	353.24	-1.69250E+06	34.669
2600.0	130.00	-7.85251E+05	355.76	-1.71023E+06	34.358
2650.0	130.00	-7.78751E+05	358.24	-1.72808E+06	34.062
2700.0	130.00	-7.72251E+05	360.67	-1.74605E+06	33.779
2750.0	130.00	-7.65751E+05	363.05	-1.76414E+06	33.508
2800.0	130.00	-7.59251E+05	365.39	-1.78235E+06	33.249
2850.0	130.00	-7.52751E+05	367.70	-1.80068E+06	33.002
2900.0	130.00	-7.46251E+05	369.96	-1.81912E+06	32.765
2950.0	130.00	-7.39751E+05	372.18	-1.83768E+06	32.538
3000.0	130.00	-7.33251E+05	374.36	-1.85634E+06	32.321

AlKO8S2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	192.94	-2.46479E+06	204.47	-2.52576E+06	442.49
300.00	193.90	-2.46444E+06	205.67	-2.52614E+06	439.83
350.00	215.23	-2.45418E+06	237.26	-2.53722E+06	378.65
400.00	230.53	-2.44301E+06	267.05	-2.54983E+06	332.97
450.00	242.30	-2.43118E+06	294.91	-2.56389E+06	297.60
500.00	251.90	-2.41882E+06	320.95	-2.57929E+06	269.45
550.00	260.07	-2.40601E+06	345.35	-2.59596E+06	246.54
600.00	267.27	-2.39283E+06	368.30	-2.61380E+06	227.55
650.00	273.79	-2.37930E+06	389.95	-2.63277E+06	211.57
700.00	279.81	-2.36546E+06	410.46	-2.65278E+06	197.95
750.00	285.47	-2.35132E+06	429.96	-2.67380E+06	186.21
800.00	290.84	-2.33691E+06	448.56	-2.69576E+06	176.01
850.00	296.00	-2.32224E+06	466.35	-2.71864E+06	167.06
900.00	300.99	-2.30732E+06	483.41	-2.74238E+06	159.16
950.00	305.85	-2.29215E+06	499.81	-2.76697E+06	152.13
1000.0	310.60	-2.27673E+06	515.62	-2.79236E+06	145.85

ALKO4Si

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.79	-2.12130E+06	133.10	-2.16099E+06	378.59
300.00	119.91	-2.12108E+06	133.84	-2.16123E+06	376.29
350.00	123.26	-2.11500E+06	152.58	-2.16840E+06	323.61
400.00	126.62	-2.10875E+06	169.26	-2.17646E+06	284.21
450.00	129.97	-2.10234E+06	184.36	-2.18530E+06	253.66
500.00	133.32	-2.09576E+06	198.23	-2.19487E+06	229.29
550.00	136.67	-2.08901E+06	211.09	-2.20511E+06	209.42
600.00	140.02	-2.08209E+06	223.13	-2.21597E+06	192.91
650.00	143.37	-2.07500E+06	234.47	-2.22741E+06	178.99
700.00	146.72	-2.06775E+06	245.22	-2.23940E+06	167.10
750.00	150.07	-2.06033E+06	255.45	-2.25192E+06	156.83
800.00	153.42	-2.05275E+06	265.25	-2.26494E+06	147.88
850.00	156.77	-2.04499E+06	274.65	-2.27844E+06	140.01
900.00	160.12	-2.03707E+06	283.70	-2.29240E+06	133.04
950.00	163.47	-2.02898E+06	292.45	-2.30681E+06	126.83
1000.0	166.82	-2.02072E+06	300.92	-2.32164E+06	121.27
1050.0	170.18	-2.01230E+06	309.14	-2.33689E+06	116.25
1100.0	173.53	-2.00370E+06	317.14	-2.35255E+06	111.71
1150.0	176.88	-1.99494E+06	324.92	-2.36860E+06	107.58
1200.0	180.23	-1.98602E+06	332.52	-2.38504E+06	103.82
1250.0	183.58	-1.97692E+06	339.95	-2.40185E+06	100.37
1300.0	186.93	-1.96766E+06	347.21	-2.41903E+06	97.195
1350.0	190.28	-1.95823E+06	354.33	-2.43657E+06	94.274
1400.0	193.63	-1.94863E+06	361.31	-2.45446E+06	91.575
1450.0	196.98	-1.93886E+06	368.16	-2.47270E+06	89.074
1500.0	200.33	-1.92893E+06	374.90	-2.49128E+06	86.752

AlKO6Si2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	164.14	-3.03420E+06	200.00	-3.09383E+06	542.01
300.00	164.33	-3.03390E+06	201.01	-3.09420E+06	538.73
350.00	169.45	-3.02555E+06	226.73	-3.10491E+06	463.37
400.00	174.58	-3.01695E+06	249.69	-3.11683E+06	407.01
450.00	179.70	-3.00809E+06	270.55	-3.12984E+06	363.29
500.00	184.83	-2.99898E+06	289.75	-3.14385E+06	328.43
550.00	189.95	-2.98961E+06	307.61	-3.15879E+06	299.99
600.00	195.08	-2.97998E+06	324.35	-3.17460E+06	276.37
650.00	200.20	-2.97010E+06	340.17	-3.19121E+06	256.44
700.00	205.33	-2.95996E+06	355.20	-3.20860E+06	239.42
750.00	210.45	-2.94957E+06	369.54	-3.22672E+06	224.72
800.00	215.58	-2.93892E+06	383.28	-3.24554E+06	211.91
850.00	220.70	-2.92801E+06	396.51	-3.26504E+06	200.64
900.00	225.82	-2.91685E+06	409.27	-3.28519E+06	190.66
950.00	230.95	-2.90543E+06	421.61	-3.30596E+06	181.77
1000.0	236.07	-2.89375E+06	433.59	-3.32734E+06	173.80
1050.0	241.20	-2.88182E+06	445.23	-3.34931E+06	166.62
1100.0	246.32	-2.86963E+06	456.57	-3.37186E+06	160.11
1150.0	251.45	-2.85719E+06	467.63	-3.39497E+06	154.20
1200.0	256.57	-2.84449E+06	478.44	-3.41862E+06	148.80
1250.0	261.70	-2.83153E+06	489.02	-3.44281E+06	143.86
1300.0	266.82	-2.81832E+06	499.38	-3.46752E+06	139.32
1350.0	271.95	-2.80485E+06	509.55	-3.49274E+06	135.14
1400.0	277.07	-2.79113E+06	519.53	-3.51847E+06	131.27
1450.0	282.19	-2.77714E+06	529.34	-3.54469E+06	127.69
1500.0	287.32	-2.76291E+06	539.00	-3.57140E+06	124.36

Al2K2O8Si2<KALIOPHILITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	239.58	-4.21245E+06	266.10	-4.29179E+06	751.88
300.00	239.58	-4.21201E+06	267.58	-4.29228E+06	747.33
350.00	239.58	-4.20003E+06	304.51	-4.30661E+06	642.71
400.00	239.58	-4.18805E+06	336.51	-4.32265E+06	564.47
450.00	239.58	-4.17607E+06	364.72	-4.34020E+06	503.78
500.00	239.58	-4.16409E+06	389.97	-4.35908E+06	455.38
550.00	239.58	-4.15211E+06	412.80	-4.37915E+06	415.89
600.00	239.58	-4.14014E+06	433.65	-4.40032E+06	383.07
650.00	239.58	-4.12816E+06	452.82	-4.42249E+06	355.39
700.00	239.58	-4.11618E+06	470.58	-4.44558E+06	331.72
750.00	239.58	-4.10420E+06	487.11	-4.46953E+06	311.28
800.00	239.58	-4.09222E+06	502.57	-4.49427E+06	293.44
850.00	239.58	-4.08024E+06	517.09	-4.51977E+06	277.74
900.00	239.58	-4.06826E+06	530.78	-4.54597E+06	263.83
950.00	239.58	-4.05628E+06	543.74	-4.57283E+06	251.43
1000.0	239.58	-4.04430E+06	556.03	-4.60033E+06	240.29
1050.0	239.58	-4.03233E+06	567.72	-4.62843E+06	230.25
1100.0	239.58	-4.02035E+06	578.86	-4.65709E+06	221.14
1150.0	239.58	-4.00837E+06	589.51	-4.68631E+06	212.85
1200.0	239.58	-3.99639E+06	599.71	-4.71604E+06	205.28
1250.0	239.58	-3.98441E+06	609.49	-4.74627E+06	198.33
1300.0	239.58	-3.97243E+06	618.88	-4.77698E+06	191.94
1350.0	239.58	-3.96045E+06	627.92	-4.80815E+06	186.03
1400.0	239.58	-3.94847E+06	636.64	-4.83977E+06	180.57

Al2K2O12Si4<LEUCITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	328.28	-6.06178E+06	368.19	-6.17156E+06	1081.2
300.00	328.28	-6.06117E+06	370.22	-6.17224E+06	1074.7
350.00	328.28	-6.04476E+06	420.83	-6.19205E+06	924.09
400.00	328.28	-6.02834E+06	464.66	-6.21421E+06	811.47
450.00	328.28	-6.01193E+06	503.33	-6.23843E+06	724.12
500.00	328.28	-5.99552E+06	537.91	-6.26447E+06	654.43
550.00	328.28	-5.97910E+06	569.20	-6.29216E+06	597.56
600.00	328.28	-5.96269E+06	597.77	-6.32135E+06	550.31
650.00	328.28	-5.94628E+06	624.04	-6.35190E+06	510.43
700.00	328.28	-5.92986E+06	648.37	-6.38372E+06	476.35
750.00	328.28	-5.91345E+06	671.02	-6.41671E+06	446.89
800.00	328.28	-5.89703E+06	692.21	-6.45080E+06	421.18
850.00	328.28	-5.88062E+06	712.11	-6.48591E+06	398.57
900.00	328.28	-5.86421E+06	730.87	-6.52199E+06	378.52
950.00	328.28	-5.84779E+06	748.62	-6.55898E+06	360.63
1000.0	328.28	-5.83138E+06	765.46	-6.59684E+06	344.57
1050.0	328.28	-5.81496E+06	781.48	-6.63551E+06	330.09
1100.0	328.28	-5.79855E+06	796.75	-6.67497E+06	316.96
1150.0	328.28	-5.78214E+06	811.34	-6.71518E+06	305.01
1200.0	328.28	-5.76572E+06	825.31	-6.75610E+06	294.08
1250.0	328.28	-5.74931E+06	838.71	-6.79770E+06	284.05
1300.0	328.28	-5.73290E+06	851.59	-6.83996E+06	274.83
1350.0	328.28	-5.71648E+06	863.98	-6.88285E+06	266.31
1400.0	328.28	-5.70007E+06	875.91	-6.92635E+06	258.42

A12K2O16Si6<ADULARIA>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	380.92	-7.89856E+06	468.61	-8.03827E+06	1408.2
300.00	383.70	-7.89785E+06	470.97	-8.03914E+06	1399.7
350.00	443.71	-7.87705E+06	534.96	-8.06429E+06	1203.5
400.00	484.01	-7.85380E+06	597.00	-8.09260E+06	1056.8
450.00	512.86	-7.82884E+06	655.76	-8.12394E+06	942.98
500.00	534.60	-7.80263E+06	710.97	-8.15812E+06	852.25
550.00	551.69	-7.77546E+06	762.76	-8.19498E+06	778.27
600.00	565.61	-7.74752E+06	811.38	-8.23434E+06	716.85
650.00	577.30	-7.71894E+06	857.12	-8.27607E+06	665.06
700.00	587.38	-7.68981E+06	900.28	-8.32001E+06	620.83
750.00	596.25	-7.66022E+06	941.12	-8.36606E+06	582.65
800.00	604.22	-7.63020E+06	979.86	-8.41409E+06	549.37
850.00	611.48	-7.59981E+06	1016.7	-8.46401E+06	520.12
900.00	618.20	-7.56906E+06	1051.9	-8.51573E+06	494.23
950.00	624.47	-7.53800E+06	1085.4	-8.56917E+06	471.15
1000.0	630.39	-7.50662E+06	1117.6	-8.62425E+06	450.47
1050.0	636.03	-7.47496E+06	1148.5	-8.68091E+06	431.84
1100.0	641.43	-7.44302E+06	1178.2	-8.73908E+06	414.97
1150.0	646.64	-7.41082E+06	1206.9	-8.79872E+06	399.64
1200.0	651.68	-7.37836E+06	1234.5	-8.85975E+06	385.65
1250.0	656.58	-7.34566E+06	1261.2	-8.92215E+06	372.83
1300.0	661.37	-7.31271E+06	1287.0	-8.98586E+06	361.05
1350.0	666.05	-7.27952E+06	1312.1	-9.05084E+06	350.19
1400.0	670.65	-7.24610E+06	1336.4	-9.11706E+06	340.15

Al2K2O16Si6<MICROCLINE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	380.92	-7.90441E+06	439.32	-8.03540E+06	1407.7
300.00	383.70	-7.90371E+06	441.68	-8.03621E+06	1399.2
350.00	443.71	-7.88291E+06	505.67	-8.05990E+06	1202.8
400.00	484.01	-7.85966E+06	567.71	-8.08674E+06	1056.0
450.00	512.86	-7.83470E+06	626.48	-8.11661E+06	942.13
500.00	534.60	-7.80849E+06	681.69	-8.14933E+06	851.33
550.00	551.69	-7.78132E+06	733.47	-8.18473E+06	777.30
600.00	565.61	-7.75337E+06	782.09	-8.22263E+06	715.83
650.00	577.30	-7.72479E+06	827.83	-8.26289E+06	664.00
700.00	587.38	-7.69567E+06	870.99	-8.30537E+06	619.74
750.00	596.25	-7.66608E+06	911.83	-8.34995E+06	581.53
800.00	604.22	-7.63606E+06	950.57	-8.39652E+06	548.22
850.00	611.48	-7.60567E+06	987.42	-8.44497E+06	518.95
900.00	618.20	-7.57492E+06	1022.6	-8.49523E+06	493.04
950.00	624.47	-7.54385E+06	1056.2	-8.54720E+06	469.95
1000.0	630.39	-7.51248E+06	1088.3	-8.60082E+06	449.25
1050.0	636.03	-7.48082E+06	1119.2	-8.65602E+06	430.60
1100.0	641.43	-7.44888E+06	1148.9	-8.71273E+06	413.72
1150.0	646.64	-7.41668E+06	1177.6	-8.77089E+06	398.38
1200.0	651.68	-7.38422E+06	1205.2	-8.83047E+06	384.37
1250.0	656.58	-7.35151E+06	1231.9	-8.89140E+06	371.54
1300.0	661.37	-7.31856E+06	1257.8	-8.95364E+06	359.75
1350.0	666.05	-7.28538E+06	1282.8	-9.01716E+06	348.89
1400.0	670.65	-7.25196E+06	1307.1	-9.08191E+06	338.84

Al2K2O16Si6<SANIDINE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	380.92	-7.89353E+06	476.14	-8.03550E+06	1407.7
300.00	383.70	-7.89283E+06	478.50	-8.03638E+06	1399.2
350.00	443.71	-7.87203E+06	542.49	-8.06191E+06	1203.1
400.00	484.01	-7.84878E+06	604.53	-8.09059E+06	1056.5
450.00	512.86	-7.82382E+06	663.29	-8.12230E+06	942.79
500.00	534.60	-7.79761E+06	718.50	-8.15686E+06	852.12
550.00	551.69	-7.77044E+06	770.29	-8.19410E+06	778.19
600.00	565.61	-7.74250E+06	818.91	-8.23384E+06	716.80
650.00	577.30	-7.71392E+06	864.65	-8.27594E+06	665.05
700.00	587.38	-7.68479E+06	907.81	-8.32026E+06	620.85
750.00	596.25	-7.65520E+06	948.65	-8.36668E+06	582.69
800.00	604.22	-7.62518E+06	987.39	-8.41509E+06	549.44
850.00	611.48	-7.59479E+06	1024.2	-8.46539E+06	520.21
900.00	618.20	-7.56404E+06	1059.4	-8.51749E+06	494.33
950.00	624.47	-7.53298E+06	1093.0	-8.57130E+06	471.27
1000.0	630.39	-7.50160E+06	1125.2	-8.62676E+06	450.60
1050.0	636.03	-7.46994E+06	1156.1	-8.68380E+06	431.98
1100.0	641.43	-7.43800E+06	1185.8	-8.74235E+06	415.13
1150.0	646.64	-7.40580E+06	1214.4	-8.80236E+06	399.81
1200.0	651.68	-7.37334E+06	1242.0	-8.86377E+06	385.82
1250.0	656.58	-7.34064E+06	1268.7	-8.92654E+06	373.01
1300.0	661.37	-7.30769E+06	1294.6	-8.99063E+06	361.24
1350.0	666.05	-7.27450E+06	1319.6	-9.05599E+06	350.39
1400.0	670.65	-7.24108E+06	1343.9	-9.12258E+06	340.36
1450.0	675.18	-7.20744E+06	1367.5	-9.19037E+06	331.06
1473.0	677.24	-7.19188E+06	1378.2	-9.22194E+06	327.01
1473.0	765.67	-7.06887E+06	1461.7	-9.22194E+06	327.01
1500.0	765.67	-7.04820E+06	1475.6	-9.26160E+06	322.51
1550.0	765.67	-7.00992E+06	1500.7	-9.33601E+06	314.61
1600.0	765.67	-6.97163E+06	1525.0	-9.41165E+06	307.25
1650.0	765.67	-6.93335E+06	1548.6	-9.48850E+06	300.37
1700.0	765.67	-6.89507E+06	1571.4	-9.56650E+06	293.94
1750.0	765.67	-6.85678E+06	1593.6	-9.64563E+06	287.90
1800.0	765.67	-6.81850E+06	1615.2	-9.72585E+06	282.23
1850.0	765.67	-6.78022E+06	1636.2	-9.80714E+06	276.90
1900.0	765.67	-6.74193E+06	1656.6	-9.88946E+06	271.87

ALLiO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	67.814	-1.18867E+06	53.350	-1.20458E+06	211.03
300.00	68.128	-1.18855E+06	53.770	-1.20468E+06	209.75
350.00	75.688	-1.18495E+06	64.863	-1.20765E+06	180.23
400.00	81.546	-1.18101E+06	75.370	-1.21116E+06	158.16
450.00	85.774	-1.17682E+06	85.235	-1.21517E+06	141.05
500.00	88.408	-1.17246E+06	94.422	-1.21967E+06	127.41
550.00	90.757	-1.16798E+06	102.96	-1.22461E+06	116.30
600.00	92.689	-1.16339E+06	110.94	-1.22996E+06	107.07
650.00	94.327	-1.15871E+06	118.43	-1.23569E+06	99.299
700.00	95.752	-1.15396E+06	125.47	-1.24179E+06	92.661
750.00	97.019	-1.14914E+06	132.12	-1.24823E+06	86.932
800.00	98.166	-1.14426E+06	138.42	-1.25500E+06	81.941
850.00	99.220	-1.13932E+06	144.41	-1.26207E+06	77.555
900.00	100.20	-1.13434E+06	150.11	-1.26943E+06	73.674
950.00	101.13	-1.12931E+06	155.55	-1.27708E+06	70.217
1000.0	102.00	-1.12423E+06	160.76	-1.28498E+06	67.119
1050.0	102.84	-1.11911E+06	165.75	-1.29315E+06	64.329
1100.0	103.65	-1.11394E+06	170.56	-1.30156E+06	61.804
1150.0	104.44	-1.10874E+06	175.18	-1.31020E+06	59.510
1200.0	105.20	-1.10350E+06	179.64	-1.31907E+06	57.416
1250.0	105.94	-1.09822E+06	183.95	-1.32816E+06	55.499
1300.0	106.67	-1.09291E+06	188.12	-1.33747E+06	53.739
1350.0	107.38	-1.08755E+06	192.16	-1.34697E+06	52.116
1400.0	108.09	-1.08217E+06	196.08	-1.35668E+06	50.617
1450.0	108.78	-1.07675E+06	199.89	-1.36658E+06	49.228
1500.0	109.47	-1.07129E+06	203.58	-1.37667E+06	47.939
1550.0	110.14	-1.06580E+06	207.19	-1.38694E+06	46.738
1600.0	110.82	-1.06027E+06	210.69	-1.39738E+06	45.619
1650.0	111.48	-1.05472E+06	214.11	-1.40800E+06	44.573
1700.0	112.14	-1.04913E+06	217.45	-1.41879E+06	43.593
1750.0	112.80	-1.04350E+06	220.71	-1.42975E+06	42.675
1800.0	113.45	-1.03785E+06	223.90	-1.44086E+06	41.812
1850.0	114.10	-1.03216E+06	227.01	-1.45214E+06	41.000
1883.0	114.52	-1.02839E+06	229.04	-1.45966E+06	40.490
1883.0	133.89	-9.40522E+05	275.70	-1.45966E+06	40.490
1900.0	133.89	-9.38246E+05	276.90	-1.46436E+06	40.257
1950.0	133.89	-9.31552E+05	280.38	-1.47829E+06	39.598
2000.0	133.89	-9.24857E+05	283.77	-1.49239E+06	38.976
2050.0	133.89	-9.18163E+05	287.07	-1.50667E+06	38.389
2100.0	133.89	-9.11469E+05	290.30	-1.52110E+06	37.834
2150.0	133.89	-9.04774E+05	293.45	-1.53569E+06	37.309
2200.0	133.89	-8.98080E+05	296.53	-1.55044E+06	36.811
2250.0	133.89	-8.91385E+05	299.54	-1.56535E+06	36.339
2300.0	133.89	-8.84691E+05	302.48	-1.58040E+06	35.891
2350.0	133.89	-8.77997E+05	305.36	-1.59559E+06	35.465
2400.0	133.89	-8.71302E+05	308.18	-1.61093E+06	35.060
2450.0	133.89	-8.64608E+05	310.94	-1.62641E+06	34.675
2500.0	133.89	-8.57913E+05	313.64	-1.64203E+06	34.307
2550.0	133.89	-8.51219E+05	316.30	-1.65777E+06	33.957
2600.0	133.89	-8.44525E+05	318.90	-1.67365E+06	33.623
2650.0	133.89	-8.37830E+05	321.45	-1.68966E+06	33.304
2700.0	133.89	-8.31136E+05	323.95	-1.70580E+06	33.000
2750.0	133.89	-8.24441E+05	326.41	-1.72206E+06	32.709
2800.0	133.89	-8.17747E+05	328.82	-1.73844E+06	32.430
2850.0	133.89	-8.11053E+05	331.19	-1.75494E+06	32.164
2900.0	133.89	-8.04358E+05	333.52	-1.77156E+06	31.908
2950.0	133.89	-7.97664E+05	335.81	-1.78829E+06	31.664
3000.0	133.89	-7.90969E+05	338.06	-1.80514E+06	31.429

Al₂Li₂O₄

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	132.11	-2.37777E+06	106.27	-2.40945E+06	422.12
300.00	132.78	-2.37752E+06	107.09	-2.40965E+06	419.55
350.00	147.52	-2.37049E+06	128.74	-2.41555E+06	360.49
400.00	157.85	-2.36284E+06	149.15	-2.42250E+06	316.34
450.00	165.61	-2.35475E+06	168.21	-2.43044E+06	282.11
500.00	171.77	-2.34631E+06	185.99	-2.43930E+06	254.83
550.00	176.90	-2.33759E+06	202.61	-2.44902E+06	232.58
600.00	181.31	-2.32863E+06	218.20	-2.45955E+06	214.12
650.00	185.23	-2.31946E+06	232.87	-2.47083E+06	198.55
700.00	188.78	-2.31011E+06	246.72	-2.48282E+06	185.27
750.00	192.06	-2.30059E+06	259.86	-2.49549E+06	173.80
800.00	195.14	-2.29091E+06	272.36	-2.50880E+06	163.80
850.00	198.07	-2.28108E+06	284.28	-2.52271E+06	155.02
900.00	200.86	-2.27111E+06	295.68	-2.53721E+06	147.25
950.00	203.57	-2.26099E+06	306.61	-2.55227E+06	140.33
1000.0	206.19	-2.25075E+06	317.12	-2.56787E+06	134.13
1050.0	208.75	-2.24038E+06	327.24	-2.58398E+06	128.54
1100.0	211.25	-2.22988E+06	337.01	-2.60059E+06	123.49
1150.0	213.71	-2.21925E+06	346.45	-2.61767E+06	118.90
1200.0	216.14	-2.20851E+06	355.60	-2.63523E+06	114.71
1250.0	218.53	-2.19764E+06	364.47	-2.65323E+06	110.87
1300.0	220.90	-2.18665E+06	373.09	-2.67167E+06	107.35
1350.0	223.24	-2.17555E+06	381.47	-2.69054E+06	104.10
1400.0	225.57	-2.16433E+06	389.63	-2.70981E+06	101.10
1450.0	227.87	-2.15299E+06	397.59	-2.72949E+06	98.325
1500.0	230.17	-2.14154E+06	405.35	-2.74957E+06	95.746
1550.0	232.45	-2.12998E+06	412.94	-2.77003E+06	93.347
1600.0	234.72	-2.11830E+06	420.35	-2.79086E+06	91.110
1650.0	236.98	-2.10651E+06	427.61	-2.81206E+06	89.020
1700.0	239.23	-2.09460E+06	434.72	-2.83362E+06	87.064
1750.0	241.48	-2.08258E+06	441.68	-2.85553E+06	85.231
1800.0	243.71	-2.07045E+06	448.52	-2.87778E+06	83.509
1850.0	245.95	-2.05821E+06	455.23	-2.90038E+06	81.890
1900.0	248.17	-2.04586E+06	461.81	-2.92330E+06	80.365

Al₂Li₂O₈Si₂<EUCRYPTITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	226.65	-4.22626E+06	207.53	-4.28813E+06	751.24
300.00	227.97	-4.22584E+06	208.93	-4.28852E+06	746.68
350.00	256.72	-4.21367E+06	246.39	-4.29991E+06	641.71
400.00	276.37	-4.20032E+06	282.02	-4.31313E+06	563.22
450.00	290.74	-4.18612E+06	315.45	-4.32807E+06	502.38
500.00	301.83	-4.17130E+06	346.68	-4.34463E+06	453.87
550.00	310.78	-4.15597E+06	375.88	-4.36271E+06	414.32
600.00	318.26	-4.14024E+06	403.25	-4.38219E+06	381.49
650.00	324.72	-4.12416E+06	428.98	-4.40300E+06	353.82
700.00	330.43	-4.10778E+06	453.26	-4.42506E+06	330.19
750.00	335.58	-4.09113E+06	476.24	-4.44831E+06	309.80
800.00	340.32	-4.07423E+06	498.05	-4.47267E+06	292.03
850.00	344.73	-4.05710E+06	518.81	-4.49809E+06	276.41
900.00	348.89	-4.03976E+06	538.64	-4.52453E+06	262.59
950.00	352.85	-4.02222E+06	557.61	-4.55194E+06	250.28
1000.0	356.64	-4.00448E+06	575.80	-4.58028E+06	239.24
1050.0	360.31	-3.98656E+06	593.29	-4.60951E+06	229.30
1100.0	363.86	-3.96845E+06	610.14	-4.63960E+06	220.31
1150.0	367.32	-3.95017E+06	626.39	-4.67052E+06	212.14
1200.0	370.71	-3.93172E+06	642.09	-4.70223E+06	204.68
1250.0	374.03	-3.91310E+06	657.29	-4.73472E+06	197.85
1300.0	377.30	-3.89432E+06	672.03	-4.76795E+06	191.57
1300.0	389.95	-3.89181E+06	673.96	-4.76795E+06	191.57
1300.0	389.95	-3.89181E+06	673.96	-4.76795E+06	191.57
1350.0	394.97	-3.87218E+06	688.77	-4.80202E+06	185.80
1400.0	399.99	-3.85231E+06	703.22	-4.83682E+06	180.46
1450.0	405.01	-3.83218E+06	717.35	-4.87234E+06	175.52
1500.0	410.03	-3.81181E+06	731.16	-4.90855E+06	170.93
1550.0	415.05	-3.79118E+06	744.69	-4.94545E+06	166.66
1600.0	420.07	-3.77030E+06	757.95	-4.98302E+06	162.67

Al2Li2O12Si4<SPODUM_A>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	317.83	-6.08647E+06	258.57	-6.16356E+06	1079.8
300.00	319.25	-6.08588E+06	260.54	-6.16404E+06	1073.2
350.00	350.79	-6.06908E+06	312.27	-6.17837E+06	922.05
400.00	373.68	-6.05094E+06	360.68	-6.19521E+06	808.99
450.00	391.54	-6.03179E+06	405.76	-6.21438E+06	721.33
500.00	406.27	-6.01184E+06	447.80	-6.23573E+06	651.43
550.00	418.95	-5.99120E+06	487.12	-6.25912E+06	594.43
600.00	430.25	-5.96996E+06	524.07	-6.28441E+06	547.09
650.00	440.57	-5.94819E+06	558.92	-6.31149E+06	507.18
700.00	450.17	-5.92592E+06	591.93	-6.34027E+06	473.10
750.00	459.25	-5.90318E+06	623.30	-6.37066E+06	443.68
800.00	467.93	-5.88000E+06	653.22	-6.40257E+06	418.03
850.00	476.31	-5.85639E+06	681.84	-6.43596E+06	395.50
900.00	484.44	-5.83237E+06	709.29	-6.47074E+06	375.54
950.00	492.37	-5.80795E+06	735.70	-6.50687E+06	357.76
1000.0	500.16	-5.78314E+06	761.15	-6.54429E+06	341.83
1050.0	507.81	-5.75794E+06	785.74	-6.58297E+06	327.48
1100.0	515.36	-5.73236E+06	809.54	-6.62285E+06	314.49

Al2Li2O12Si4<SPODUM_B>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	325.60	-6.03040E+06	308.78	-6.12246E+06	1072.6
300.00	327.20	-6.02980E+06	310.80	-6.12303E+06	1066.1
350.00	362.15	-6.01250E+06	364.04	-6.13992E+06	916.31
400.00	386.43	-5.99376E+06	414.07	-6.15938E+06	804.31
450.00	404.52	-5.97396E+06	460.68	-6.18127E+06	717.48
500.00	418.75	-5.95337E+06	504.06	-6.20540E+06	648.26
550.00	430.47	-5.93213E+06	544.54	-6.23163E+06	591.82
600.00	440.47	-5.91035E+06	582.43	-6.25981E+06	544.95
650.00	449.27	-5.88810E+06	618.05	-6.28983E+06	505.44
700.00	457.19	-5.86544E+06	651.63	-6.32158E+06	471.71
750.00	464.46	-5.84239E+06	683.43	-6.35496E+06	442.59
800.00	471.24	-5.81900E+06	713.62	-6.38990E+06	417.21
850.00	477.64	-5.79527E+06	742.39	-6.42630E+06	394.90
900.00	483.75	-5.77124E+06	769.86	-6.46411E+06	375.16
950.00	489.61	-5.74690E+06	796.17	-6.50327E+06	357.57
1000.0	495.29	-5.72228E+06	821.43	-6.54371E+06	341.80
1050.0	500.80	-5.69738E+06	845.73	-6.58540E+06	327.60
1100.0	506.20	-5.67220E+06	869.15	-6.62827E+06	314.74
1150.0	511.48	-5.64676E+06	891.77	-6.67230E+06	303.06
1200.0	516.68	-5.62106E+06	913.65	-6.71744E+06	292.40
1250.0	521.80	-5.59509E+06	934.85	-6.76365E+06	282.63
1300.0	526.86	-5.56888E+06	955.41	-6.81091E+06	273.66
1350.0	531.86	-5.54241E+06	975.39	-6.85918E+06	265.39
1400.0	536.82	-5.51569E+06	994.82	-6.90844E+06	257.75
1450.0	541.74	-5.48873E+06	1013.7	-6.95866E+06	250.67
1500.0	546.62	-5.46152E+06	1032.2	-7.00981E+06	244.10
1550.0	551.47	-5.43407E+06	1050.2	-7.06187E+06	237.98
1600.0	556.29	-5.40637E+06	1067.8	-7.11482E+06	232.27
1650.0	561.10	-5.37844E+06	1085.0	-7.16864E+06	226.93
1700.0	565.88	-5.35026E+06	1101.8	-7.22331E+06	221.94

Al2MgO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	116.19	-2.31292E+06	88.692	-2.33936E+06	409.84
300.00	116.75	-2.31270E+06	89.412	-2.33952E+06	407.34
350.00	129.63	-2.30652E+06	108.43	-2.34447E+06	349.88
400.00	139.11	-2.29979E+06	126.39	-2.35035E+06	306.92
450.00	146.07	-2.29265E+06	143.20	-2.35709E+06	273.60
500.00	150.99	-2.28522E+06	158.86	-2.36465E+06	247.03
550.00	155.17	-2.27756E+06	173.45	-2.37296E+06	225.36
600.00	158.67	-2.26971E+06	187.11	-2.38198E+06	207.36
650.00	161.69	-2.26170E+06	199.93	-2.39166E+06	192.19
700.00	164.37	-2.25355E+06	212.01	-2.40196E+06	179.23
750.00	166.78	-2.24527E+06	223.44	-2.41285E+06	168.04
800.00	169.00	-2.23688E+06	234.27	-2.42429E+06	158.29
850.00	171.07	-2.22837E+06	244.58	-2.43627E+06	149.71
900.00	173.02	-2.21977E+06	254.41	-2.44874E+06	142.12
950.00	174.88	-2.21107E+06	263.82	-2.46170E+06	135.35
1000.0	176.66	-2.20228E+06	272.84	-2.47512E+06	129.28
1050.0	178.38	-2.19341E+06	281.50	-2.48898E+06	123.82
1100.0	180.05	-2.18445E+06	289.83	-2.50326E+06	118.87
1150.0	181.67	-2.17540E+06	297.87	-2.51796E+06	114.37
1200.0	183.26	-2.16628E+06	305.64	-2.53305E+06	110.26
1250.0	184.83	-2.15708E+06	313.15	-2.54852E+06	106.49
1300.0	186.36	-2.14780E+06	320.43	-2.56436E+06	103.03
1350.0	187.88	-2.13844E+06	327.49	-2.58056E+06	99.845
1400.0	189.37	-2.12901E+06	334.35	-2.59710E+06	96.897
1450.0	190.85	-2.11950E+06	341.02	-2.61399E+06	94.164
1500.0	192.32	-2.10993E+06	347.52	-2.63120E+06	91.624
1550.0	193.77	-2.10027E+06	353.85	-2.64874E+06	89.260
1600.0	195.22	-2.09055E+06	360.02	-2.66659E+06	87.053
1650.0	196.65	-2.08075E+06	366.05	-2.68474E+06	84.990
1700.0	198.08	-2.07088E+06	371.94	-2.70319E+06	83.057
1750.0	199.50	-2.06094E+06	377.71	-2.72193E+06	81.243
1800.0	200.91	-2.05093E+06	383.35	-2.74096E+06	79.538
1850.0	202.32	-2.04085E+06	388.87	-2.76026E+06	77.934
1900.0	203.72	-2.03070E+06	394.28	-2.77984E+06	76.421
1950.0	205.11	-2.02048E+06	399.59	-2.79969E+06	74.993
2000.0	206.51	-2.01019E+06	404.80	-2.81980E+06	73.644
2050.0	207.73	-1.99983E+06	409.92	-2.84017E+06	72.367
2100.0	208.92	-1.98942E+06	414.94	-2.86079E+06	71.156
2150.0	210.07	-1.97894E+06	419.87	-2.88166E+06	70.009
2200.0	211.19	-1.96841E+06	424.71	-2.90278E+06	68.919
2250.0	212.27	-1.95783E+06	429.47	-2.92413E+06	67.883
2300.0	213.32	-1.94719E+06	434.15	-2.94572E+06	66.898
2350.0	214.33	-1.93649E+06	438.74	-2.96754E+06	65.959
2400.0	215.30	-1.92575E+06	443.27	-2.98959E+06	65.065
2408.0	215.46	-1.92403E+06	443.98	-2.99314E+06	64.926
2408.0	230.12	-1.72738E+06	525.65	-2.99314E+06	64.926
2450.0	230.12	-1.71772E+06	529.63	-3.01530E+06	64.285
2500.0	230.12	-1.70621E+06	534.28	-3.04190E+06	63.555
2550.0	230.12	-1.69471E+06	538.83	-3.06873E+06	62.859
2600.0	230.12	-1.68320E+06	543.30	-3.09578E+06	62.193
2650.0	230.12	-1.67169E+06	547.69	-3.12306E+06	61.558
2700.0	230.12	-1.66019E+06	551.99	-3.15055E+06	60.950
2750.0	230.12	-1.64868E+06	556.21	-3.17826E+06	60.368
2800.0	230.12	-1.63718E+06	560.36	-3.20617E+06	59.810
2850.0	230.12	-1.62567E+06	564.43	-3.23429E+06	59.276
2900.0	230.12	-1.61416E+06	568.43	-3.26261E+06	58.765
2950.0	230.12	-1.60266E+06	572.36	-3.29113E+06	58.273
3000.0	230.12	-1.59115E+06	576.23	-3.31985E+06	57.802

Al2Mg3O12Si3<PYROPE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	319.33	-6.28560E+06	251.88	-6.36070E+06	1114.3
300.00	320.67	-6.28501E+06	253.86	-6.36117E+06	1107.5
350.00	350.50	-6.26818E+06	305.66	-6.37517E+06	951.42
400.00	372.27	-6.25009E+06	353.95	-6.39167E+06	834.65
450.00	389.35	-6.23104E+06	398.82	-6.41051E+06	744.09
500.00	403.52	-6.21120E+06	440.60	-6.43150E+06	671.88
550.00	415.78	-6.19072E+06	479.65	-6.45452E+06	612.98
600.00	426.76	-6.16965E+06	516.30	-6.47943E+06	564.07
650.00	436.81	-6.14805E+06	550.86	-6.50612E+06	522.82
700.00	446.21	-6.12598E+06	583.58	-6.53448E+06	487.60
750.00	455.12	-6.10344E+06	614.67	-6.56445E+06	457.18
800.00	463.65	-6.08047E+06	644.32	-6.59593E+06	430.66
850.00	471.90	-6.05708E+06	672.68	-6.62886E+06	407.35
900.00	479.92	-6.03329E+06	699.88	-6.66318E+06	386.71
950.00	487.76	-6.00909E+06	726.04	-6.69883E+06	368.32
1000.0	495.46	-5.98451E+06	751.25	-6.73576E+06	351.83
1050.0	503.04	-5.95955E+06	775.61	-6.77394E+06	336.98
1100.0	510.52	-5.93421E+06	799.18	-6.81331E+06	323.53
1150.0	517.92	-5.90850E+06	822.04	-6.85384E+06	311.30
1200.0	525.26	-5.88242E+06	844.24	-6.89550E+06	300.15
1250.0	532.54	-5.85597E+06	865.83	-6.93826E+06	289.93
1300.0	539.77	-5.82917E+06	886.86	-6.98208E+06	280.54
1350.0	546.96	-5.80200E+06	907.36	-7.02693E+06	271.88
1400.0	554.12	-5.77447E+06	927.38	-7.07281E+06	263.88
1450.0	561.24	-5.74659E+06	946.95	-7.11967E+06	256.47
1500.0	568.34	-5.71835E+06	966.10	-7.16749E+06	249.59
1500.0	682.14	-5.47525E+06	1128.2	-7.16749E+06	249.59
1500.0	682.14	-5.47525E+06	1128.2	-7.16749E+06	249.59
1550.0	682.14	-5.44114E+06	1150.5	-7.22446E+06	243.46
1600.0	682.14	-5.40703E+06	1172.2	-7.28253E+06	237.74
1650.0	682.14	-5.37292E+06	1193.2	-7.34167E+06	232.41
1700.0	682.14	-5.33882E+06	1213.5	-7.40184E+06	227.43
1750.0	682.14	-5.30471E+06	1233.3	-7.46302E+06	222.75
1800.0	682.14	-5.27060E+06	1252.5	-7.52516E+06	218.37
1850.0	682.14	-5.23650E+06	1271.2	-7.58826E+06	214.25
1900.0	682.14	-5.20239E+06	1289.4	-7.65228E+06	210.37

Al4Mg2O18Si5<CORDIERITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	452.29	-9.15978E+06	407.20	-9.28119E+06	1626.0
300.00	454.72	-9.15894E+06	410.01	-9.28194E+06	1616.1
350.00	507.73	-9.13479E+06	484.36	-9.30432E+06	1388.6
400.00	544.02	-9.10844E+06	554.67	-9.33031E+06	1218.4
450.00	570.61	-9.08055E+06	620.35	-9.35971E+06	1086.4
500.00	591.16	-9.05148E+06	681.58	-9.39227E+06	981.18
550.00	607.77	-9.02150E+06	738.73	-9.42780E+06	895.35
600.00	621.69	-8.99075E+06	792.22	-9.46608E+06	824.08
650.00	633.72	-8.95936E+06	842.47	-9.50696E+06	763.97
700.00	644.39	-8.92740E+06	889.83	-9.55028E+06	712.63
750.00	654.03	-8.89494E+06	934.62	-9.59590E+06	668.30
800.00	662.91	-8.86201E+06	977.12	-9.64371E+06	629.65
850.00	671.19	-8.82866E+06	1017.6	-9.69358E+06	595.68
900.00	679.00	-8.79490E+06	1056.1	-9.74543E+06	565.60
950.00	686.44	-8.76076E+06	1093.1	-9.79917E+06	538.78
1000.0	693.58	-8.72626E+06	1128.5	-9.85471E+06	514.74
1050.0	700.48	-8.69141E+06	1162.5	-9.91199E+06	493.08
1100.0	707.18	-8.65622E+06	1195.2	-9.97094E+06	473.47
1150.0	713.71	-8.62069E+06	1226.8	-1.00315E+07	455.63
1200.0	720.11	-8.58485E+06	1257.3	-1.00936E+07	439.35
1250.0	726.38	-8.54869E+06	1286.8	-1.01572E+07	424.44
1300.0	732.56	-8.51221E+06	1315.4	-1.02223E+07	410.73
1350.0	738.65	-8.47543E+06	1343.2	-1.02887E+07	398.08
1400.0	744.67	-8.43835E+06	1370.2	-1.03566E+07	386.40
1450.0	750.63	-8.40096E+06	1396.4	-1.04257E+07	375.57
1500.0	756.53	-8.36329E+06	1421.9	-1.04962E+07	365.50
1550.0	762.38	-8.32531E+06	1446.8	-1.05679E+07	356.13
1600.0	768.19	-8.28705E+06	1471.1	-1.06409E+07	347.38
1650.0	773.97	-8.24849E+06	1494.9	-1.07150E+07	339.20
1700.0	779.71	-8.20965E+06	1518.1	-1.07903E+07	331.54
1740.0	784.28	-8.17837E+06	1536.2	-1.08514E+07	325.75
1740.0	882.61	-7.83277E+06	1734.9	-1.08514E+07	325.75
1750.0	882.66	-7.82395E+06	1739.9	-1.08688E+07	324.41
1800.0	882.90	-7.77981E+06	1764.8	-1.09564E+07	317.94
1850.0	883.13	-7.73566E+06	1789.0	-1.10453E+07	311.85
1900.0	883.37	-7.69149E+06	1812.5	-1.11353E+07	306.12

Al18Mg7O40Si3<SAPPHIRINE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	1090.9	-2.21648E+07	783.91	-2.23985E+07	3924.0
300.00	1097.5	-2.21628E+07	790.68	-2.24000E+07	3900.1
350.00	1239.9	-2.21041E+07	971.35	-2.24441E+07	3349.5
400.00	1335.2	-2.20396E+07	1143.5	-2.24970E+07	2937.7
450.00	1403.1	-2.19710E+07	1304.9	-2.25582E+07	2618.4
500.00	1454.1	-2.18995E+07	1455.5	-2.26273E+07	2363.8
550.00	1493.9	-2.18258E+07	1596.0	-2.27036E+07	2156.2
600.00	1526.2	-2.17503E+07	1727.5	-2.27867E+07	1983.7
650.00	1553.2	-2.16733E+07	1850.7	-2.28762E+07	1838.3
700.00	1576.2	-2.15950E+07	1966.7	-2.29717E+07	1714.1
750.00	1596.5	-2.15157E+07	2076.1	-2.30728E+07	1606.9
800.00	1614.5	-2.14354E+07	2179.8	-2.31792E+07	1513.4
850.00	1630.9	-2.13543E+07	2278.1	-2.32907E+07	1431.2
900.00	1645.9	-2.12723E+07	2371.8	-2.34069E+07	1358.5
950.00	1659.9	-2.11897E+07	2461.2	-2.35278E+07	1293.6
1000.0	1673.1	-2.11064E+07	2546.6	-2.36530E+07	1235.5
1050.0	1685.6	-2.10224E+07	2628.6	-2.37824E+07	1183.1
1100.0	1697.5	-2.09378E+07	2707.3	-2.39158E+07	1135.6
1150.0	1709.0	-2.08526E+07	2783.0	-2.40531E+07	1092.5
1200.0	1720.0	-2.07669E+07	2855.9	-2.41940E+07	1053.1
1250.0	1730.8	-2.06806E+07	2926.4	-2.43386E+07	1017.0
1300.0	1741.2	-2.05938E+07	2994.5	-2.44866E+07	983.86
1350.0	1751.4	-2.05065E+07	3060.4	-2.46380E+07	953.28
1400.0	1761.4	-2.04187E+07	3124.2	-2.47926E+07	925.00
1450.0	1771.2	-2.03304E+07	3186.2	-2.49504E+07	898.79
1500.0	1780.9	-2.02416E+07	3246.4	-2.51112E+07	874.43
1550.0	1790.4	-2.01523E+07	3305.0	-2.52750E+07	851.74
1600.0	1799.9	-2.00625E+07	3362.0	-2.54417E+07	830.57
1650.0	1809.2	-1.99723E+07	3417.5	-2.56112E+07	810.76
1700.0	1818.4	-1.98816E+07	3471.7	-2.57834E+07	792.21

Al2MnO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	124.63	-2.10037E+06	103.76	-2.13131E+06	373.39
300.00	125.12	-2.10014E+06	104.54	-2.13150E+06	371.12
350.00	135.91	-2.09359E+06	124.69	-2.13723E+06	318.96
400.00	143.38	-2.08660E+06	143.35	-2.14394E+06	279.96
450.00	148.90	-2.07929E+06	160.57	-2.15155E+06	249.74
500.00	153.22	-2.07173E+06	176.49	-2.15998E+06	225.65
550.00	156.75	-2.06398E+06	191.27	-2.16918E+06	206.01
600.00	159.75	-2.05606E+06	205.04	-2.17909E+06	189.70
650.00	162.37	-2.04801E+06	217.93	-2.18967E+06	175.96
700.00	164.72	-2.03983E+06	230.05	-2.20087E+06	164.23
750.00	166.86	-2.03154E+06	241.49	-2.21266E+06	154.10
800.00	168.85	-2.02315E+06	252.32	-2.22501E+06	145.27
850.00	170.73	-2.01466E+06	262.62	-2.23788E+06	137.52
900.00	172.50	-2.00608E+06	272.43	-2.25126E+06	130.66
950.00	174.21	-1.99741E+06	281.80	-2.26512E+06	124.54
1000.0	175.85	-1.98866E+06	290.78	-2.27943E+06	119.06
1050.0	177.45	-1.97982E+06	299.40	-2.29419E+06	114.13
1100.0	179.01	-1.97091E+06	307.69	-2.30937E+06	109.66
1150.0	180.53	-1.96192E+06	315.68	-2.32495E+06	105.60
1200.0	182.03	-1.95286E+06	323.39	-2.34093E+06	101.90
1250.0	183.50	-1.94372E+06	330.85	-2.35729E+06	98.503
1300.0	184.95	-1.93451E+06	338.08	-2.37401E+06	95.387
1350.0	186.39	-1.92523E+06	345.08	-2.39109E+06	92.515
1400.0	187.81	-1.91587E+06	351.89	-2.40852E+06	89.861
1450.0	189.22	-1.90645E+06	358.50	-2.42628E+06	87.402
1500.0	190.61	-1.89695E+06	364.94	-2.44436E+06	85.118
1550.0	192.00	-1.88739E+06	371.22	-2.46277E+06	82.993
1600.0	193.38	-1.87775E+06	377.33	-2.48148E+06	81.010
1650.0	194.75	-1.86805E+06	383.30	-2.50050E+06	79.157
1700.0	196.12	-1.85828E+06	389.14	-2.51981E+06	77.422
1750.0	197.48	-1.84844E+06	394.84	-2.53941E+06	75.795
1800.0	198.83	-1.83853E+06	400.43	-2.55929E+06	74.267

ALN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	30.129	-3.17984E+05	20.150	-3.23992E+05	56.761
300.00	30.229	-3.17928E+05	20.337	-3.24029E+05	56.417
350.00	33.302	-3.16342E+05	25.221	-3.25169E+05	48.528
400.00	36.400	-3.14598E+05	29.874	-3.26548E+05	42.642
450.00	38.933	-3.12711E+05	34.315	-3.28153E+05	38.090
500.00	40.588	-3.10719E+05	38.511	-3.29975E+05	34.471
550.00	42.312	-3.08645E+05	42.464	-3.32000E+05	31.530
600.00	43.676	-3.06494E+05	46.206	-3.34218E+05	29.096
650.00	44.781	-3.04282E+05	49.747	-3.36618E+05	27.050
700.00	45.689	-3.02019E+05	53.100	-3.39189E+05	25.310
750.00	46.446	-2.99715E+05	56.279	-3.41925E+05	23.813
800.00	47.082	-2.97377E+05	59.298	-3.44815E+05	22.514
850.00	47.618	-2.95009E+05	62.168	-3.47852E+05	21.376
900.00	48.072	-2.92616E+05	64.903	-3.51029E+05	20.373
950.00	48.454	-2.90203E+05	67.513	-3.54340E+05	19.482
1000.0	48.775	-2.87772E+05	70.007	-3.57779E+05	18.688
1050.0	49.040	-2.85326E+05	72.393	-3.61339E+05	17.975
1100.0	49.255	-2.82869E+05	74.680	-3.65016E+05	17.333
1150.0	49.424	-2.80402E+05	76.873	-3.68806E+05	16.751
1200.0	49.551	-2.77927E+05	78.979	-3.72702E+05	16.223
1250.0	49.638	-2.75447E+05	81.004	-3.76702E+05	15.741
1300.0	49.690	-2.72964E+05	82.952	-3.80801E+05	15.300
1350.0	49.717	-2.70479E+05	84.828	-3.84996E+05	14.896
1400.0	49.766	-2.67992E+05	86.637	-3.89283E+05	14.524
1450.0	49.828	-2.65502E+05	88.384	-3.93659E+05	14.181
1500.0	49.899	-2.63009E+05	90.074	-3.98120E+05	13.863
1550.0	49.974	-2.60512E+05	91.712	-4.02665E+05	13.569
1600.0	50.049	-2.58011E+05	93.300	-4.07291E+05	13.296
1650.0	50.121	-2.55507E+05	94.841	-4.11995E+05	13.042
1700.0	50.188	-2.52999E+05	96.338	-4.16774E+05	12.806
1750.0	50.247	-2.50488E+05	97.794	-4.21628E+05	12.585
1800.0	50.295	-2.47975E+05	99.210	-4.26553E+05	12.378
1850.0	50.332	-2.45459E+05	100.59	-4.31548E+05	12.184
1900.0	50.355	-2.42942E+05	101.93	-4.36611E+05	12.003
1950.0	50.423	-2.40422E+05	103.24	-4.41741E+05	11.833
2000.0	50.484	-2.37900E+05	104.52	-4.46935E+05	11.672
2050.0	50.541	-2.35374E+05	105.76	-4.52192E+05	11.522
2100.0	50.593	-2.32846E+05	106.98	-4.57511E+05	11.380
2150.0	50.641	-2.30315E+05	108.17	-4.62890E+05	11.246
2200.0	50.686	-2.27782E+05	109.34	-4.68328E+05	11.119
2250.0	50.729	-2.25246E+05	110.48	-4.73823E+05	11.000
2300.0	50.769	-2.22709E+05	111.59	-4.79375E+05	10.887
2350.0	50.807	-2.20169E+05	112.69	-4.84982E+05	10.780
2400.0	50.843	-2.17628E+05	113.76	-4.90643E+05	10.678
2450.0	50.878	-2.15085E+05	114.81	-4.96357E+05	10.582
2500.0	50.911	-2.12540E+05	115.83	-5.02124E+05	10.491
2550.0	50.944	-2.09994E+05	116.84	-5.07940E+05	10.404
2600.0	50.977	-2.07446E+05	117.83	-5.13807E+05	10.322
2650.0	51.009	-2.04896E+05	118.80	-5.19723E+05	10.244
2700.0	51.040	-2.02345E+05	119.76	-5.25687E+05	10.170
2750.0	51.072	-1.99792E+05	120.69	-5.31699E+05	10.099
2800.0	51.103	-1.97238E+05	121.61	-5.37756E+05	10.032
2850.0	51.135	-1.94682E+05	122.52	-5.43860E+05	9.9676
2900.0	51.168	-1.92124E+05	123.41	-5.50008E+05	9.9065
2950.0	51.200	-1.89565E+05	124.28	-5.56200E+05	9.8482
3000.0	51.234	-1.87004E+05	125.14	-5.62436E+05	9.7926

AlN<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.409	4.38829E+05	228.43	3.70721E+05	-64.947
300.00	32.450	4.38889E+05	228.63	3.70299E+05	-64.473
350.00	33.377	4.40536E+05	233.71	3.58737E+05	-53.537
400.00	34.058	4.42223E+05	238.21	3.46937E+05	-45.304
450.00	34.598	4.43940E+05	242.26	3.34924E+05	-38.876
500.00	35.054	4.45681E+05	245.93	3.22718E+05	-33.713
550.00	35.457	4.47444E+05	249.29	3.10336E+05	-29.473
600.00	35.826	4.49226E+05	252.39	2.97793E+05	-25.925
650.00	36.174	4.51026E+05	255.27	2.85101E+05	-22.910
700.00	36.509	4.52843E+05	257.96	2.72269E+05	-20.316
750.00	36.835	4.54677E+05	260.49	2.59307E+05	-18.059
800.00	37.157	4.56527E+05	262.88	2.46222E+05	-16.076
850.00	37.477	4.58393E+05	265.14	2.33021E+05	-14.319
900.00	37.797	4.60275E+05	267.29	2.19710E+05	-12.751
950.00	38.119	4.62172E+05	269.35	2.06293E+05	-11.343
1000.0	38.444	4.64087E+05	271.31	1.92777E+05	-10.069
1050.0	38.772	4.66017E+05	273.19	1.79164E+05	-8.9127
1100.0	39.104	4.67964E+05	275.00	1.65459E+05	-7.8568
1150.0	39.442	4.69927E+05	276.75	1.51664E+05	-6.8886
1200.0	39.784	4.71908E+05	278.44	1.37785E+05	-5.9975
1250.0	40.150	4.73907E+05	280.07	1.23822E+05	-5.1741
1300.0	40.487	4.75923E+05	281.65	1.09779E+05	-4.4108
1350.0	40.799	4.77955E+05	283.18	95658.	-3.7011
1400.0	41.089	4.80002E+05	284.67	81461.	-3.0393
1450.0	41.359	4.82063E+05	286.12	67191.	-2.4204
1500.0	41.611	4.84138E+05	287.53	52850.	-1.8403
1550.0	41.846	4.86224E+05	288.89	38439.	-1.2954
1600.0	42.066	4.88322E+05	290.23	23961.	-0.78223
1650.0	42.272	4.90431E+05	291.52	9417.2	-0.29812
1700.0	42.465	4.92549E+05	292.79	-5190.7	0.15949
1750.0	42.647	4.94677E+05	294.02	-19861.	0.59281
1800.0	42.816	4.96814E+05	295.23	-34592.	1.0038
1850.0	42.975	4.98958E+05	296.40	-49383.	1.3943
1900.0	43.124	5.01111E+05	297.55	-64232.	1.7658
1950.0	43.263	5.03271E+05	298.67	-79138.	2.1198
2000.0	43.393	5.05437E+05	299.77	-94099.	2.4575
2050.0	43.514	5.07610E+05	300.84	-1.09114E+05	2.7802
2100.0	43.627	5.09788E+05	301.89	-1.24182E+05	3.0888
2150.0	43.731	5.11972E+05	302.92	-1.39303E+05	3.3843
2200.0	43.828	5.14161E+05	303.93	-1.54474E+05	3.6676
2250.0	43.916	5.16355E+05	304.91	-1.69695E+05	3.9394
2300.0	43.997	5.18553E+05	305.88	-1.84965E+05	4.2006
2350.0	44.071	5.20755E+05	306.82	-2.00282E+05	4.4517
2400.0	44.137	5.22960E+05	307.75	-2.15647E+05	4.6933
2450.0	44.197	5.25168E+05	308.66	-2.31057E+05	4.9261
2500.0	44.249	5.27379E+05	309.56	-2.46513E+05	5.1505
2550.0	44.295	5.29593E+05	310.43	-2.62013E+05	5.3670
2600.0	44.334	5.31809E+05	311.29	-2.77556E+05	5.5760
2650.0	44.366	5.34026E+05	312.14	-2.93142E+05	5.7780
2700.0	44.392	5.36245E+05	312.97	-3.08770E+05	5.9734
2750.0	44.412	5.38465E+05	313.78	-3.24438E+05	6.1624
2800.0	44.426	5.40686E+05	314.58	-3.40148E+05	6.3454
2850.0	44.442	5.42908E+05	315.37	-3.55897E+05	6.5227
2900.0	44.459	5.45131E+05	316.14	-3.71684E+05	6.6946
2950.0	44.478	5.47354E+05	316.90	-3.87511E+05	6.8613
3000.0	44.498	5.49578E+05	317.65	-4.03375E+05	7.0232

AlNaO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	73.680	-1.13319E+06	70.400	-1.15418E+06	202.20
300.00	73.917	-1.13306E+06	70.857	-1.15432E+06	200.98
350.00	79.326	-1.12922E+06	82.679	-1.15816E+06	172.84
400.00	83.418	-1.12515E+06	93.550	-1.16257E+06	151.81
450.00	86.731	-1.12089E+06	103.57	-1.16750E+06	135.52
500.00	89.549	-1.11648E+06	112.86	-1.17291E+06	122.53
550.00	92.034	-1.11194E+06	121.51	-1.17877E+06	111.95
600.00	94.282	-1.10728E+06	129.62	-1.18505E+06	103.17
650.00	96.354	-1.10252E+06	137.25	-1.19173E+06	95.766
700.00	98.291	-1.09765E+06	144.46	-1.19877E+06	89.451
740.00	99.761	-1.09369E+06	149.96	-1.20466E+06	85.032
740.00	97.690	-1.09239E+06	151.72	-1.20466E+06	85.032
750.00	97.867	-1.09141E+06	153.03	-1.20619E+06	84.004
800.00	98.751	-1.08650E+06	159.37	-1.21400E+06	79.264
850.00	99.636	-1.08154E+06	165.39	-1.22212E+06	75.100
900.00	100.52	-1.07653E+06	171.11	-1.23053E+06	71.416
950.00	101.41	-1.07149E+06	176.57	-1.23922E+06	68.136
1000.0	102.30	-1.06639E+06	181.79	-1.24818E+06	65.197
1050.0	103.18	-1.06126E+06	186.80	-1.25740E+06	62.551
1100.0	104.07	-1.05608E+06	191.62	-1.26686E+06	60.157
1150.0	104.96	-1.05085E+06	196.27	-1.27656E+06	57.982
1200.0	105.85	-1.04558E+06	200.75	-1.28648E+06	55.998
1250.0	106.74	-1.04026E+06	205.09	-1.29663E+06	54.182
1300.0	107.62	-1.03491E+06	209.30	-1.30699E+06	52.514
1350.0	108.51	-1.02950E+06	213.37	-1.31756E+06	50.978
1400.0	109.40	-1.02405E+06	217.34	-1.32833E+06	49.559
1450.0	110.29	-1.01856E+06	221.19	-1.33929E+06	48.245
1500.0	111.17	-1.01303E+06	224.95	-1.35044E+06	47.025
1550.0	112.06	-1.00745E+06	228.61	-1.36178E+06	45.891
1600.0	112.95	-1.00182E+06	232.18	-1.37330E+06	44.833
1650.0	113.83	-9.96150E+05	235.67	-1.38500E+06	43.844
1700.0	114.72	-9.90437E+05	239.08	-1.39687E+06	42.919
1750.0	115.61	-9.84678E+05	242.42	-1.40891E+06	42.052
1800.0	116.49	-9.78876E+05	245.69	-1.42111E+06	41.238
1850.0	117.33	-9.73030E+05	248.89	-1.43347E+06	40.473
1900.0	118.16	-9.67143E+05	252.03	-1.44600E+06	39.752
1950.0	118.97	-9.61215E+05	255.11	-1.45868E+06	39.073
2000.0	119.76	-9.55246E+05	258.13	-1.47151E+06	38.431
2050.0	120.54	-9.49239E+05	261.10	-1.48449E+06	37.824
2100.0	121.29	-9.43193E+05	264.01	-1.49762E+06	37.250
2150.0	122.04	-9.37109E+05	266.87	-1.51089E+06	36.706
2200.0	122.76	-9.30990E+05	269.69	-1.52430E+06	36.191
2250.0	123.32	-9.24838E+05	272.45	-1.53786E+06	35.701
2300.0	123.86	-9.18658E+05	275.17	-1.55155E+06	35.236
2350.0	124.39	-9.12452E+05	277.84	-1.56537E+06	34.793
2400.0	124.90	-9.06219E+05	280.46	-1.57933E+06	34.372
2450.0	125.40	-8.99961E+05	283.04	-1.59342E+06	33.971
2500.0	125.87	-8.93680E+05	285.58	-1.60763E+06	33.589

AlNaO4Si

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	115.81	-2.09466E+06	124.30	-2.13172E+06	373.46
300.00	116.36	-2.09445E+06	125.02	-2.13195E+06	371.20
350.00	131.13	-2.08826E+06	144.06	-2.13868E+06	319.17
400.00	145.90	-2.08133E+06	162.54	-2.14635E+06	280.28
450.00	160.67	-2.07367E+06	180.57	-2.15493E+06	250.13
500.00	145.64	-2.06613E+06	196.49	-2.16437E+06	226.10
550.00	149.00	-2.05876E+06	210.53	-2.17455E+06	206.52
600.00	152.36	-2.05123E+06	223.64	-2.18541E+06	190.25
650.00	155.71	-2.04352E+06	235.97	-2.19690E+06	176.54
700.00	159.07	-2.03565E+06	247.63	-2.20899E+06	164.83
750.00	162.42	-2.02762E+06	258.72	-2.22165E+06	154.73
800.00	165.78	-2.01941E+06	269.31	-2.23486E+06	145.92
850.00	169.13	-2.01104E+06	279.46	-2.24858E+06	138.18
900.00	172.49	-2.00250E+06	289.22	-2.26280E+06	131.33
950.00	175.85	-1.99379E+06	298.64	-2.27749E+06	125.22
1000.0	179.20	-1.98491E+06	307.74	-2.29266E+06	119.75
1050.0	182.56	-1.97587E+06	316.56	-2.30826E+06	114.83
1100.0	185.91	-1.96666E+06	325.13	-2.32431E+06	110.37
1150.0	189.27	-1.95728E+06	333.47	-2.34077E+06	106.32
1200.0	178.63	-1.94800E+06	341.37	-2.35765E+06	102.62
1250.0	178.91	-1.93906E+06	348.67	-2.37490E+06	99.239
1300.0	179.18	-1.93011E+06	355.69	-2.39251E+06	96.130
1350.0	179.46	-1.92114E+06	362.46	-2.41047E+06	93.264
1400.0	179.74	-1.91216E+06	368.99	-2.42875E+06	90.616
1450.0	180.01	-1.90317E+06	375.31	-2.44736E+06	88.161
1500.0	180.29	-1.89416E+06	381.41	-2.46628E+06	85.881

Al2Na2O12Si4<JADEITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	319.76	-6.03249E+06	266.94	-6.11208E+06	1070.8
300.00	321.31	-6.03190E+06	268.92	-6.11257E+06	1064.3
350.00	355.37	-6.01493E+06	321.18	-6.12734E+06	914.43
400.00	379.15	-5.99653E+06	370.27	-6.14464E+06	802.39
450.00	396.96	-5.97711E+06	416.00	-6.16431E+06	715.52
500.00	411.05	-5.95690E+06	458.58	-6.18619E+06	646.25
550.00	422.73	-5.93604E+06	498.32	-6.21012E+06	589.77
600.00	432.75	-5.91465E+06	535.54	-6.23598E+06	542.88
650.00	441.61	-5.89279E+06	570.54	-6.26364E+06	503.34
700.00	449.63	-5.87050E+06	603.56	-6.29300E+06	469.58
750.00	457.02	-5.84784E+06	634.84	-6.32397E+06	440.43
800.00	463.93	-5.82481E+06	664.56	-6.35646E+06	415.02
850.00	470.48	-5.80145E+06	692.88	-6.39040E+06	392.70
900.00	476.75	-5.77777E+06	719.95	-6.42572E+06	372.93
950.00	482.78	-5.75378E+06	745.89	-6.46237E+06	355.32
1000.0	488.63	-5.72949E+06	770.80	-6.50030E+06	339.53
1050.0	494.33	-5.70492E+06	794.78	-6.53944E+06	325.31
1100.0	499.91	-5.68006E+06	817.91	-6.57976E+06	312.44
1150.0	505.39	-5.65493E+06	840.25	-6.62122E+06	300.74
1200.0	510.78	-5.62952E+06	861.88	-6.66377E+06	290.06

Al2Na2O16Si6<ALBITE_H>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	396.68	-7.80985E+06	457.73	-7.94633E+06	1392.1
300.00	399.21	-7.80912E+06	460.19	-7.94718E+06	1383.7
350.00	453.94	-7.78769E+06	526.14	-7.97184E+06	1189.7
400.00	490.89	-7.76402E+06	589.31	-7.99974E+06	1044.6
450.00	517.51	-7.73877E+06	648.75	-8.03071E+06	932.16
500.00	537.71	-7.71237E+06	704.36	-8.06455E+06	842.48
550.00	553.72	-7.68507E+06	756.39	-8.10109E+06	769.36
600.00	566.88	-7.65705E+06	805.15	-8.14014E+06	708.64
650.00	578.02	-7.62842E+06	850.98	-8.18155E+06	657.46
700.00	587.70	-7.59927E+06	894.17	-8.22519E+06	613.76
750.00	596.31	-7.56967E+06	935.02	-8.27093E+06	576.02
800.00	604.09	-7.53965E+06	973.76	-8.31866E+06	543.14
850.00	611.24	-7.50927E+06	1010.6	-8.36828E+06	514.24
900.00	617.89	-7.47854E+06	1045.7	-8.41969E+06	488.65
950.00	624.15	-7.44749E+06	1079.3	-8.47282E+06	465.86
973.00	626.91	-7.43310E+06	1094.3	-8.49782E+06	456.19
973.00	626.91	-7.41887E+06	1108.9	-8.49782E+06	456.19
1000.0	630.09	-7.40190E+06	1126.1	-8.52799E+06	445.45
1050.0	635.77	-7.37026E+06	1157.0	-8.58507E+06	427.07
1100.0	641.23	-7.33833E+06	1186.7	-8.64367E+06	410.44
1150.0	646.53	-7.30613E+06	1215.3	-8.70372E+06	395.33
1200.0	651.67	-7.27368E+06	1242.9	-8.76518E+06	381.53
1250.0	656.69	-7.24097E+06	1269.6	-8.82800E+06	368.89
1300.0	661.60	-7.20801E+06	1295.5	-8.89213E+06	357.28
1350.0	666.42	-7.17481E+06	1320.5	-8.95753E+06	346.58

Al2Na2O16Si6<ALBITE_L>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	409.69	-7.83161E+06	420.07	-7.95686E+06	1394.0
300.00	411.64	-7.83085E+06	422.61	-7.95764E+06	1385.5
350.00	454.48	-7.80913E+06	489.51	-7.98045E+06	1191.0
400.00	484.33	-7.78562E+06	552.25	-8.00652E+06	1045.5
450.00	506.62	-7.76082E+06	610.64	-8.03561E+06	932.73
500.00	524.22	-7.73503E+06	664.96	-8.06751E+06	842.79
550.00	538.76	-7.70845E+06	715.63	-8.10204E+06	769.45
600.00	551.20	-7.68119E+06	763.05	-8.13902E+06	708.55
650.00	562.18	-7.65335E+06	807.61	-8.17830E+06	657.20
700.00	572.09	-7.62499E+06	849.64	-8.21974E+06	613.35
750.00	581.21	-7.59616E+06	889.43	-8.26323E+06	575.49
800.00	589.73	-7.56688E+06	927.21	-8.30865E+06	542.49
850.00	597.79	-7.53719E+06	963.21	-8.35592E+06	513.48
900.00	605.48	-7.50711E+06	997.60	-8.40494E+06	487.80
950.00	612.89	-7.47665E+06	1030.5	-8.45565E+06	464.91
1000.0	620.06	-7.44582E+06	1062.2	-8.50798E+06	444.40
1050.0	627.04	-7.41464E+06	1092.6	-8.56185E+06	425.92
1100.0	633.87	-7.38312E+06	1121.9	-8.61721E+06	409.19
1150.0	640.57	-7.35126E+06	1150.2	-8.67402E+06	393.98
1200.0	647.16	-7.31906E+06	1177.6	-8.73222E+06	380.09
1250.0	653.66	-7.28654E+06	1204.2	-8.79177E+06	367.38
1300.0	660.08	-7.25370E+06	1229.9	-8.85263E+06	355.69
1350.0	666.44	-7.22054E+06	1255.0	-8.91475E+06	344.92

Al₂NiO₄

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	131.57	-1.91983E+06	98.324	-1.94914E+06	341.47
300.00	132.04	-1.91958E+06	99.139	-1.94933E+06	339.40
350.00	142.27	-1.91271E+06	120.31	-1.95482E+06	291.73
400.00	149.32	-1.90541E+06	139.80	-1.96133E+06	256.12
450.00	154.52	-1.89781E+06	157.70	-1.96877E+06	228.52
500.00	158.57	-1.88998E+06	174.20	-1.97708E+06	206.54
550.00	161.88	-1.88196E+06	189.47	-1.98617E+06	188.63
600.00	164.67	-1.87380E+06	203.68	-1.99601E+06	173.76
650.00	167.10	-1.86550E+06	216.96	-2.00653E+06	161.24
700.00	169.27	-1.85709E+06	229.42	-2.01769E+06	150.56
750.00	171.24	-1.84858E+06	241.17	-2.02946E+06	141.34
800.00	173.07	-1.83997E+06	252.28	-2.04179E+06	133.31
850.00	174.79	-1.83127E+06	262.82	-2.05467E+06	126.26
900.00	176.42	-1.82249E+06	272.86	-2.06807E+06	120.02
950.00	177.97	-1.81363E+06	282.44	-2.08195E+06	114.47
1000.0	179.47	-1.80470E+06	291.61	-2.09631E+06	109.50
1050.0	180.93	-1.79569E+06	300.40	-2.11111E+06	105.02
1100.0	182.34	-1.78660E+06	308.85	-2.12634E+06	100.97
1150.0	183.72	-1.77745E+06	316.99	-2.14199E+06	97.290
1200.0	185.08	-1.76823E+06	324.83	-2.15803E+06	93.934
1250.0	186.42	-1.75895E+06	332.42	-2.17447E+06	90.864
1300.0	187.73	-1.74959E+06	339.75	-2.19127E+06	88.044
1350.0	189.03	-1.74017E+06	346.86	-2.20844E+06	85.447
1400.0	190.32	-1.73069E+06	353.76	-2.22595E+06	83.049
1450.0	191.59	-1.72114E+06	360.46	-2.24381E+06	80.829
1500.0	192.85	-1.71153E+06	366.98	-2.26200E+06	78.768
1550.0	194.11	-1.70186E+06	373.32	-2.28051E+06	76.851
1600.0	195.35	-1.69212E+06	379.51	-2.29933E+06	75.063
1650.0	196.59	-1.68232E+06	385.54	-2.31845E+06	73.394
1700.0	197.83	-1.67246E+06	391.42	-2.33788E+06	71.832
1750.0	199.05	-1.66254E+06	397.17	-2.35759E+06	70.369
1800.0	200.28	-1.65255E+06	402.80	-2.37759E+06	68.994
1850.0	201.49	-1.64251E+06	408.30	-2.39787E+06	67.702
1900.0	202.71	-1.63240E+06	413.69	-2.41842E+06	66.485

AlO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	30.885	77622.	218.39	12510.	-2.1917
300.00	30.920	77679.	218.58	12106.	-2.1078
350.00	31.781	79247.	223.41	1053.7	-0.15726
400.00	32.513	80855.	227.70	-10226.	1.3353
450.00	33.152	82497.	231.57	-21709.	2.5199
500.00	33.719	84169.	235.09	-33377.	3.4868
550.00	34.225	85868.	238.33	-45214.	4.2939
600.00	34.676	87590.	241.33	-57206.	4.9801
650.00	35.077	89334.	244.12	-69343.	5.5723
700.00	35.430	91097.	246.73	-81615.	6.0900
750.00	35.737	92877.	249.19	-94014.	6.5475
800.00	35.999	94670.	251.50	-1.06532E+05	6.9556
850.00	36.259	96477.	253.69	-1.19162E+05	7.3226
900.00	36.548	98297.	255.77	-1.31899E+05	7.6550
950.00	36.862	1.00132E+05	257.76	-1.44738E+05	7.9580
1000.0	37.197	1.01983E+05	259.66	-1.57673E+05	8.2358
1050.0	37.549	1.03852E+05	261.48	-1.70702E+05	8.4917
1100.0	37.916	1.05738E+05	263.23	-1.83820E+05	8.7287
1150.0	38.296	1.07644E+05	264.93	-1.97024E+05	8.9489
1200.0	38.688	1.09568E+05	266.57	-2.10312E+05	9.1544
1250.0	39.091	1.11512E+05	268.15	-2.23680E+05	9.3468
1300.0	39.503	1.13477E+05	269.70	-2.37127E+05	9.5276
1350.0	39.924	1.15463E+05	271.19	-2.50649E+05	9.6980
1400.0	40.354	1.17470E+05	272.65	-2.64245E+05	9.8589
1450.0	40.791	1.19498E+05	274.08	-2.77914E+05	10.011
1500.0	41.236	1.21549E+05	275.47	-2.91653E+05	10.156
1550.0	41.687	1.23622E+05	276.83	-3.05460E+05	10.294
1600.0	42.145	1.25718E+05	278.16	-3.19335E+05	10.425
1650.0	42.594	1.27837E+05	279.46	-3.33275E+05	10.550
1700.0	43.019	1.29977E+05	280.74	-3.47281E+05	10.670
1750.0	43.421	1.32138E+05	281.99	-3.61349E+05	10.785
1800.0	43.800	1.34319E+05	283.22	-3.75479E+05	10.896
1850.0	44.159	1.36518E+05	284.43	-3.89671E+05	11.002
1900.0	44.495	1.38734E+05	285.61	-4.03922E+05	11.104
1950.0	44.812	1.40967E+05	286.77	-4.18231E+05	11.203
2000.0	45.107	1.43215E+05	287.91	-4.32598E+05	11.298
2050.0	45.383	1.45477E+05	289.02	-4.47021E+05	11.390
2100.0	45.639	1.47753E+05	290.12	-4.61500E+05	11.479
2150.0	45.875	1.50041E+05	291.20	-4.76033E+05	11.565
2200.0	46.092	1.52340E+05	292.25	-4.90620E+05	11.648
2250.0	46.290	1.54650E+05	293.29	-5.05258E+05	11.729
2300.0	46.470	1.56969E+05	294.31	-5.19949E+05	11.808
2350.0	46.630	1.59296E+05	295.31	-5.34689E+05	11.885
2400.0	46.772	1.61632E+05	296.30	-5.49480E+05	11.959
2450.0	46.895	1.63973E+05	297.26	-5.64319E+05	12.031
2500.0	47.000	1.66321E+05	298.21	-5.79205E+05	12.102
2550.0	47.087	1.68673E+05	299.14	-5.94139E+05	12.170
2600.0	47.155	1.71029E+05	300.06	-6.09119E+05	12.237
2650.0	47.206	1.73388E+05	300.96	-6.24145E+05	12.302
2700.0	47.238	1.75749E+05	301.84	-6.39215E+05	12.366
2750.0	47.253	1.78112E+05	302.71	-6.54328E+05	12.428
2800.0	47.250	1.80474E+05	303.56	-6.69485E+05	12.489
2850.0	47.240	1.82837E+05	304.39	-6.84684E+05	12.549
2900.0	47.222	1.85198E+05	305.21	-6.99924E+05	12.607
2950.0	47.197	1.87559E+05	306.02	-7.15205E+05	12.664
3000.0	47.165	1.89918E+05	306.81	-7.30526E+05	12.719

AlO2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	48.371	-1.84096E+05	245.71	-2.57354E+05	45.086
300.00	48.471	-1.84006E+05	246.01	-2.57809E+05	44.887
350.00	50.769	-1.81523E+05	253.66	-2.70305E+05	40.340
400.00	52.541	-1.78938E+05	260.56	-2.83163E+05	36.976
450.00	53.969	-1.76274E+05	266.84	-2.96350E+05	34.399
500.00	55.151	-1.73545E+05	272.58	-3.09838E+05	32.368
550.00	56.142	-1.70762E+05	277.89	-3.23601E+05	30.732
600.00	56.976	-1.67934E+05	282.81	-3.37620E+05	29.392
650.00	57.672	-1.65067E+05	287.40	-3.51877E+05	28.276
700.00	58.246	-1.62169E+05	291.70	-3.66356E+05	27.337
750.00	58.705	-1.59244E+05	295.73	-3.81042E+05	26.537
800.00	59.057	-1.56300E+05	299.53	-3.95925E+05	25.851
850.00	59.412	-1.53338E+05	303.12	-4.10992E+05	25.256
900.00	59.710	-1.50360E+05	306.53	-4.26234E+05	24.737
950.00	59.964	-1.47368E+05	309.76	-4.41642E+05	24.283
1000.0	60.182	-1.44364E+05	312.84	-4.57207E+05	23.881
1050.0	60.371	-1.41350E+05	315.78	-4.72924E+05	23.526
1100.0	60.535	-1.38327E+05	318.60	-4.88784E+05	23.210
1150.0	60.679	-1.35297E+05	321.29	-5.04781E+05	22.927
1200.0	60.807	-1.32259E+05	323.88	-5.20911E+05	22.674
1250.0	60.920	-1.29216E+05	326.36	-5.37167E+05	22.446
1300.0	61.021	-1.26168E+05	328.75	-5.53546E+05	22.241
1350.0	61.112	-1.23114E+05	331.06	-5.70041E+05	22.056
1400.0	61.194	-1.20056E+05	333.28	-5.86650E+05	21.888
1450.0	61.269	-1.16995E+05	335.43	-6.03368E+05	21.735
1500.0	61.336	-1.13930E+05	337.51	-6.20192E+05	21.596
1550.0	61.398	-1.10861E+05	339.52	-6.37118E+05	21.470
1600.0	61.454	-1.07790E+05	341.47	-6.54143E+05	21.355
1650.0	61.506	-1.04716E+05	343.36	-6.71264E+05	21.250
1700.0	61.554	-1.01639E+05	345.20	-6.88478E+05	21.154
1750.0	61.598	-98561.	346.98	-7.05783E+05	21.066
1800.0	61.639	-95480.	348.72	-7.23176E+05	20.985
1850.0	61.678	-92397.	350.41	-7.40654E+05	20.912
1900.0	61.713	-89312.	352.05	-7.58216E+05	20.844
1950.0	61.746	-86225.	353.66	-7.75859E+05	20.782
2000.0	61.777	-83137.	355.22	-7.93581E+05	20.726
2050.0	61.806	-80048.	356.75	-8.11381E+05	20.674
2100.0	61.834	-76957.	358.24	-8.29255E+05	20.626
2150.0	61.859	-73864.	359.69	-8.47204E+05	20.582
2200.0	61.884	-70771.	361.12	-8.65224E+05	20.543
2250.0	61.907	-67676.	362.51	-8.83315E+05	20.506
2300.0	61.928	-64580.	363.87	-9.01474E+05	20.473
2350.0	61.949	-61483.	365.20	-9.19701E+05	20.442
2400.0	61.968	-58385.	366.50	-9.37994E+05	20.414
2450.0	61.986	-55286.	367.78	-9.56351E+05	20.389
2500.0	62.004	-52187.	369.03	-9.74771E+05	20.366
2550.0	62.020	-49086.	370.26	-9.93254E+05	20.345
2600.0	62.036	-45985.	371.47	-1.01180E+06	20.327
2650.0	62.051	-42882.	372.65	-1.03040E+06	20.310
2700.0	62.066	-39780.	373.81	-1.04906E+06	20.295
2750.0	62.079	-36676.	374.95	-1.06778E+06	20.281
2800.0	62.092	-33572.	376.07	-1.08656E+06	20.269
2850.0	62.105	-30467.	377.16	-1.10539E+06	20.259
2900.0	62.116	-27361.	378.25	-1.12427E+06	20.250
2950.0	62.128	-24255.	379.31	-1.14321E+06	20.242
3000.0	62.139	-21148.	380.35	-1.16220E+06	20.235

Al2O<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.360	-1.85138E+05	257.07	-2.61782E+05	45.862
300.00	52.427	-1.85041E+05	257.39	-2.62258E+05	45.662
350.00	53.986	-1.82379E+05	265.59	-2.75337E+05	41.091
400.00	55.211	-1.79648E+05	272.89	-2.88802E+05	37.713
450.00	56.213	-1.76861E+05	279.45	-3.02613E+05	35.126
500.00	57.053	-1.74029E+05	285.42	-3.16737E+05	33.088
550.00	57.765	-1.71158E+05	290.89	-3.31147E+05	31.449
600.00	58.369	-1.68254E+05	295.94	-3.45819E+05	30.105
650.00	58.878	-1.65323E+05	300.63	-3.60735E+05	28.988
700.00	59.301	-1.62368E+05	305.01	-3.75877E+05	28.048
750.00	59.642	-1.59394E+05	309.12	-3.91231E+05	27.247
800.00	59.908	-1.56405E+05	312.97	-4.06785E+05	26.560
850.00	60.174	-1.53403E+05	316.61	-4.22525E+05	25.965
900.00	60.398	-1.50388E+05	320.06	-4.38443E+05	25.446
950.00	60.588	-1.47364E+05	323.33	-4.54528E+05	24.991
1000.0	60.751	-1.44330E+05	326.44	-4.70773E+05	24.590
1050.0	60.892	-1.41289E+05	329.41	-4.87170E+05	24.235
1100.0	61.014	-1.38241E+05	332.25	-5.03712E+05	23.919
1150.0	61.120	-1.35188E+05	334.96	-5.20393E+05	23.636
1200.0	61.214	-1.32129E+05	337.56	-5.37206E+05	23.383
1250.0	61.298	-1.29066E+05	340.06	-5.54148E+05	23.156
1300.0	61.372	-1.26000E+05	342.47	-5.71211E+05	22.951
1350.0	61.438	-1.22929E+05	344.79	-5.88393E+05	22.766
1400.0	61.498	-1.19856E+05	347.02	-6.05689E+05	22.598
1450.0	61.552	-1.16780E+05	349.18	-6.23094E+05	22.446
1500.0	61.601	-1.13701E+05	351.27	-6.40606E+05	22.307
1550.0	61.645	-1.10620E+05	353.29	-6.58220E+05	22.181
1600.0	61.685	-1.07536E+05	355.25	-6.75934E+05	22.066
1650.0	61.722	-1.04451E+05	357.15	-6.93744E+05	21.962
1700.0	61.756	-1.01364E+05	358.99	-7.11648E+05	21.866
1750.0	61.788	-98276.	360.78	-7.29642E+05	21.778
1800.0	61.816	-95186.	362.52	-7.47725E+05	21.698
1850.0	61.843	-92094.	364.22	-7.65894E+05	21.624
1900.0	61.868	-89001.	365.87	-7.84146E+05	21.557
1950.0	61.891	-85907.	367.47	-8.02479E+05	21.495
2000.0	61.913	-82812.	369.04	-8.20892E+05	21.439
2050.0	61.933	-79716.	370.57	-8.39383E+05	21.387
2100.0	61.951	-76619.	372.06	-8.57949E+05	21.340
2150.0	61.969	-73521.	373.52	-8.76588E+05	21.296
2200.0	61.986	-70422.	374.94	-8.95300E+05	21.257
2250.0	62.001	-67322.	376.34	-9.14082E+05	21.220
2300.0	62.016	-64222.	377.70	-9.32933E+05	21.187
2350.0	62.030	-61121.	379.03	-9.51852E+05	21.157
2400.0	62.043	-58019.	380.34	-9.70836E+05	21.129
2450.0	62.055	-54917.	381.62	-9.89886E+05	21.104
2500.0	62.067	-51813.	382.87	-1.00900E+06	21.081
2550.0	62.078	-48710.	384.10	-1.02817E+06	21.061
2600.0	62.088	-45606.	385.31	-1.04741E+06	21.042
2650.0	62.098	-42501.	386.49	-1.06670E+06	21.025
2700.0	62.108	-39396.	387.65	-1.08606E+06	21.010
2750.0	62.117	-36290.	388.79	-1.10547E+06	20.997
2800.0	62.126	-33184.	389.91	-1.12494E+06	20.985
2850.0	62.134	-30078.	391.01	-1.14446E+06	20.975
2900.0	62.142	-26971.	392.09	-1.16404E+06	20.966
2950.0	62.149	-23864.	393.15	-1.18367E+06	20.958
3000.0	62.156	-20756.	394.20	-1.20335E+06	20.952

Al2O2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.297	-4.81562E+05	266.61	-5.61051E+05	98.291
300.00	52.462	-4.81465E+05	266.93	-5.61545E+05	97.771
350.00	56.617	-4.78735E+05	275.34	-5.75104E+05	85.827
400.00	60.223	-4.75812E+05	283.14	-5.89069E+05	76.923
450.00	63.347	-4.72721E+05	290.42	-6.03410E+05	70.040
500.00	66.025	-4.69485E+05	297.24	-6.18103E+05	64.571
550.00	68.277	-4.66126E+05	303.64	-6.33126E+05	60.128
600.00	70.115	-4.62664E+05	309.66	-6.48460E+05	56.452
650.00	71.722	-4.59117E+05	315.34	-6.64087E+05	53.365
700.00	73.039	-4.55497E+05	320.70	-6.79989E+05	50.740
750.00	74.139	-4.51817E+05	325.78	-6.96152E+05	48.483
800.00	75.070	-4.48086E+05	330.60	-7.12563E+05	46.524
850.00	75.869	-4.44312E+05	335.17	-7.29208E+05	44.811
900.00	76.561	-4.40501E+05	339.53	-7.46076E+05	43.300
950.00	77.166	-4.36657E+05	343.68	-7.63157E+05	41.960
1000.0	77.698	-4.32785E+05	347.66	-7.80441E+05	40.765
1050.0	78.168	-4.28888E+05	351.46	-7.97920E+05	39.693
1100.0	78.586	-4.24969E+05	355.10	-8.15585E+05	38.728
1150.0	78.957	-4.21030E+05	358.61	-8.33428E+05	37.855
1200.0	79.288	-4.17074E+05	361.97	-8.51443E+05	37.061
1250.0	79.582	-4.13102E+05	365.22	-8.69623E+05	36.339
1300.0	79.844	-4.09116E+05	368.34	-8.87963E+05	35.678
1350.0	80.077	-4.05118E+05	371.36	-9.06456E+05	35.072
1400.0	80.281	-4.01109E+05	374.28	-9.25097E+05	34.515
1450.0	80.461	-3.97091E+05	377.10	-9.43882E+05	34.001
1500.0	80.617	-3.93064E+05	379.83	-9.62806E+05	33.527
1550.0	80.774	-3.89029E+05	382.47	-9.81863E+05	33.088
1600.0	80.916	-3.84986E+05	385.04	-1.00105E+06	32.680
1650.0	81.046	-3.80937E+05	387.53	-1.02037E+06	32.301
1700.0	81.165	-3.76882E+05	389.95	-1.03980E+06	31.948
1750.0	81.274	-3.72821E+05	392.31	-1.05936E+06	31.619
1800.0	81.374	-3.68755E+05	394.60	-1.07903E+06	31.312
1850.0	81.466	-3.64684E+05	396.83	-1.09882E+06	31.024
1900.0	81.551	-3.60608E+05	399.00	-1.11872E+06	30.755
1950.0	81.630	-3.56529E+05	401.12	-1.13872E+06	30.502
2000.0	81.703	-3.52445E+05	403.19	-1.15883E+06	30.265
2050.0	81.770	-3.48359E+05	405.21	-1.17904E+06	30.041
2100.0	81.833	-3.44268E+05	407.18	-1.19935E+06	29.831
2150.0	81.892	-3.40175E+05	409.11	-1.21975E+06	29.633
2200.0	81.947	-3.36079E+05	410.99	-1.24026E+06	29.447
2250.0	81.999	-3.31981E+05	412.83	-1.26085E+06	29.270
2300.0	82.047	-3.27879E+05	414.63	-1.28154E+06	29.104
2350.0	82.092	-3.23776E+05	416.40	-1.30232E+06	28.946
2400.0	82.134	-3.19670E+05	418.13	-1.32318E+06	28.798
2450.0	82.174	-3.15563E+05	419.82	-1.34413E+06	28.656
2500.0	82.212	-3.11453E+05	421.48	-1.36516E+06	28.523
2550.0	82.247	-3.07341E+05	423.11	-1.38628E+06	28.396
2600.0	82.281	-3.03228E+05	424.71	-1.40747E+06	28.276
2650.0	82.313	-2.99113E+05	426.28	-1.42875E+06	28.162
2700.0	82.343	-2.94997E+05	427.82	-1.45010E+06	28.053
2750.0	82.371	-2.90879E+05	429.33	-1.47153E+06	27.950
2800.0	82.398	-2.86760E+05	430.81	-1.49303E+06	27.852
2850.0	82.424	-2.82639E+05	432.27	-1.51461E+06	27.759
2900.0	82.448	-2.78518E+05	433.70	-1.53626E+06	27.670
2950.0	82.471	-2.74395E+05	435.11	-1.55798E+06	27.586
3000.0	82.493	-2.70270E+05	436.50	-1.57977E+06	27.506

Al2O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.015	-1.67569E+06	50.940	-1.69088E+06	296.23
300.00	79.430	-1.67555E+06	51.430	-1.69097E+06	294.42
350.00	88.941	-1.67132E+06	64.427	-1.69387E+06	252.79
400.00	96.084	-1.66669E+06	76.790	-1.69741E+06	221.65
450.00	101.67	-1.66174E+06	88.443	-1.70154E+06	197.50
500.00	106.13	-1.65654E+06	99.394	-1.70624E+06	178.25
550.00	109.71	-1.65114E+06	109.68	-1.71147E+06	162.54
600.00	112.55	-1.64558E+06	119.36	-1.71720E+06	149.49
650.00	114.91	-1.63990E+06	128.46	-1.72339E+06	138.49
700.00	116.90	-1.63410E+06	137.05	-1.73003E+06	129.09
750.00	118.62	-1.62821E+06	145.18	-1.73709E+06	120.98
800.00	120.12	-1.62224E+06	152.88	-1.74455E+06	113.90
850.00	121.46	-1.61620E+06	160.20	-1.75237E+06	107.69
900.00	122.67	-1.61010E+06	167.18	-1.76056E+06	102.18
950.00	123.78	-1.60393E+06	173.84	-1.76909E+06	97.269
1000.0	124.80	-1.59772E+06	180.22	-1.77794E+06	92.868
1050.0	125.74	-1.59146E+06	186.33	-1.78710E+06	88.901
1100.0	126.63	-1.58515E+06	192.20	-1.79657E+06	85.310
1150.0	127.46	-1.57879E+06	197.85	-1.80632E+06	82.044
1200.0	128.25	-1.57240E+06	203.29	-1.81635E+06	79.062
1250.0	129.00	-1.56597E+06	208.54	-1.82665E+06	76.329
1300.0	129.71	-1.55950E+06	213.61	-1.83720E+06	73.818
1350.0	130.39	-1.55300E+06	218.52	-1.84801E+06	71.502
1400.0	131.05	-1.54646E+06	223.28	-1.85905E+06	69.360
1450.0	131.68	-1.53990E+06	227.89	-1.87033E+06	67.375
1500.0	132.29	-1.53330E+06	232.36	-1.88184E+06	65.530
1550.0	132.85	-1.52667E+06	236.71	-1.89356E+06	63.811
1600.0	133.37	-1.52001E+06	240.93	-1.90551E+06	62.207
1650.0	133.85	-1.51333E+06	245.05	-1.91766E+06	60.706
1700.0	134.30	-1.50663E+06	249.05	-1.93001E+06	59.300
1750.0	134.73	-1.49990E+06	252.95	-1.94256E+06	57.981
1800.0	135.13	-1.49315E+06	256.75	-1.95530E+06	56.740
1850.0	135.52	-1.48639E+06	260.46	-1.96823E+06	55.572
1900.0	135.89	-1.47960E+06	264.08	-1.98135E+06	54.470
1950.0	136.26	-1.47280E+06	267.61	-1.99464E+06	53.429
2000.0	136.62	-1.46598E+06	271.06	-2.00811E+06	52.445
2050.0	136.97	-1.45914E+06	274.44	-2.02174E+06	51.513
2100.0	137.32	-1.45228E+06	277.75	-2.03555E+06	50.630
2150.0	137.67	-1.44540E+06	280.98	-2.04952E+06	49.792
2200.0	138.03	-1.43851E+06	284.15	-2.06365E+06	48.996
2250.0	138.38	-1.43160E+06	287.26	-2.07793E+06	48.239
2300.0	138.74	-1.42467E+06	290.30	-2.09237E+06	47.518
2327.0	138.94	-1.42093E+06	291.92	-2.10023E+06	47.143
2327.0	192.46	-1.30984E+06	339.66	-2.10023E+06	47.143
2350.0	192.46	-1.30541E+06	341.55	-2.10807E+06	46.856
2400.0	192.46	-1.29579E+06	345.61	-2.12524E+06	46.254
2450.0	192.46	-1.28617E+06	349.57	-2.14262E+06	45.680
2500.0	192.46	-1.27654E+06	353.46	-2.16020E+06	45.134
2550.0	192.46	-1.26692E+06	357.27	-2.17797E+06	44.613
2600.0	192.46	-1.25730E+06	361.01	-2.19593E+06	44.116
2650.0	192.46	-1.24767E+06	364.68	-2.21407E+06	43.641
2700.0	192.46	-1.23805E+06	368.27	-2.23239E+06	43.187
2750.0	192.46	-1.22843E+06	371.81	-2.25090E+06	42.753
2800.0	192.46	-1.21880E+06	375.27	-2.26957E+06	42.338
2850.0	192.46	-1.20918E+06	378.68	-2.28842E+06	41.941
2900.0	192.46	-1.19956E+06	382.03	-2.30744E+06	41.560
2950.0	192.46	-1.18994E+06	385.32	-2.32662E+06	41.196
3000.0	192.46	-1.18031E+06	388.55	-2.34597E+06	40.846

Al2O3<AL2O3_DELTA>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	81.387	-1.66649E+06	50.626	-1.68158E+06	294.60
300.00	81.814	-1.66634E+06	51.131	-1.68168E+06	292.80
350.00	91.610	-1.66199E+06	64.518	-1.68457E+06	251.40
400.00	98.967	-1.65722E+06	77.252	-1.68812E+06	220.44
450.00	104.72	-1.65212E+06	89.254	-1.69228E+06	196.43
500.00	109.32	-1.64676E+06	100.53	-1.69703E+06	177.28
550.00	113.00	-1.64120E+06	111.13	-1.70232E+06	161.67
600.00	115.92	-1.63548E+06	121.10	-1.70813E+06	148.70
650.00	118.35	-1.62962E+06	130.47	-1.71442E+06	137.77
700.00	120.41	-1.62365E+06	139.32	-1.72117E+06	128.43
750.00	122.17	-1.61758E+06	147.69	-1.72835E+06	120.37
800.00	123.73	-1.61143E+06	155.63	-1.73593E+06	113.34
850.00	125.11	-1.60521E+06	163.17	-1.74390E+06	107.16
900.00	126.35	-1.59892E+06	170.35	-1.75224E+06	101.69
950.00	127.49	-1.59258E+06	177.22	-1.76093E+06	96.820
1000.0	128.54	-1.58618E+06	183.78	-1.76996E+06	92.451
1050.0	129.51	-1.57972E+06	190.08	-1.77931E+06	88.513
1100.0	130.43	-1.57323E+06	196.13	-1.78896E+06	84.949
1150.0	131.28	-1.56668E+06	201.94	-1.79892E+06	81.707
1200.0	132.10	-1.56010E+06	207.55	-1.80915E+06	78.748
1250.0	132.87	-1.55347E+06	212.96	-1.81967E+06	76.038
1300.0	133.60	-1.54681E+06	218.18	-1.83045E+06	73.546
1350.0	134.31	-1.54011E+06	223.24	-1.84148E+06	71.249
1400.0	134.98	-1.53338E+06	228.13	-1.85277E+06	69.126
1450.0	135.63	-1.52662E+06	232.88	-1.86429E+06	67.157
1500.0	136.26	-1.51982E+06	237.49	-1.87605E+06	65.328
1550.0	136.84	-1.51299E+06	241.97	-1.88804E+06	63.625
1600.0	137.37	-1.50614E+06	246.32	-1.90025E+06	62.035
1650.0	137.87	-1.49925E+06	250.56	-1.91267E+06	60.549
1700.0	138.33	-1.49235E+06	254.68	-1.92530E+06	59.156
1750.0	138.77	-1.48542E+06	258.69	-1.93814E+06	57.849
1800.0	139.19	-1.47847E+06	262.61	-1.95117E+06	56.620
1850.0	139.58	-1.47150E+06	266.43	-1.96440E+06	55.463
1900.0	139.97	-1.46451E+06	270.16	-1.97781E+06	54.372
1950.0	140.35	-1.45751E+06	273.80	-1.99141E+06	53.343
2000.0	140.71	-1.45048E+06	277.36	-2.00519E+06	52.369
2050.0	141.08	-1.44344E+06	280.83	-2.01915E+06	51.447
2100.0	141.44	-1.43637E+06	284.24	-2.03327E+06	50.574
2150.0	141.80	-1.42929E+06	287.57	-2.04757E+06	49.745
2200.0	142.17	-1.42219E+06	290.83	-2.06203E+06	48.958
2250.0	142.53	-1.41507E+06	294.03	-2.07665E+06	48.209
2300.0	142.90	-1.40794E+06	297.17	-2.09143E+06	47.497

AL2O3<AL2O3_GAMMA>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.730	-1.65686E+06	52.300	-1.67246E+06	293.00
300.00	83.165	-1.65671E+06	52.813	-1.67255E+06	291.21
350.00	93.120	-1.65229E+06	66.421	-1.67554E+06	250.05
400.00	100.60	-1.64744E+06	79.365	-1.67919E+06	219.27
450.00	106.45	-1.64226E+06	91.565	-1.68346E+06	195.41
500.00	111.12	-1.63681E+06	103.03	-1.68833E+06	176.37
550.00	114.86	-1.63116E+06	113.80	-1.69375E+06	160.86
600.00	117.84	-1.62534E+06	123.93	-1.69970E+06	147.97
650.00	120.31	-1.61939E+06	133.46	-1.70614E+06	137.10
700.00	122.40	-1.61332E+06	142.46	-1.71304E+06	127.83
750.00	124.19	-1.60715E+06	150.97	-1.72037E+06	119.81
800.00	125.77	-1.60090E+06	159.03	-1.72813E+06	112.83
850.00	127.18	-1.59458E+06	166.70	-1.73627E+06	106.70
900.00	128.44	-1.58819E+06	174.01	-1.74479E+06	101.26
950.00	129.60	-1.58173E+06	180.98	-1.75367E+06	96.421
1000.0	130.66	-1.57523E+06	187.66	-1.76288E+06	92.081
1050.0	131.65	-1.56867E+06	194.06	-1.77243E+06	88.171
1100.0	132.58	-1.56206E+06	200.20	-1.78228E+06	84.631
1150.0	133.45	-1.55541E+06	206.11	-1.79244E+06	81.413
1200.0	134.28	-1.54872E+06	211.81	-1.80289E+06	78.476
1250.0	135.06	-1.54198E+06	217.31	-1.81362E+06	75.785
1300.0	135.81	-1.53521E+06	222.62	-1.82462E+06	73.312
1350.0	136.52	-1.52840E+06	227.76	-1.83588E+06	71.033
1400.0	137.21	-1.52156E+06	232.74	-1.84739E+06	68.925
1450.0	137.87	-1.51468E+06	237.56	-1.85915E+06	66.972
1500.0	138.51	-1.50777E+06	242.25	-1.87115E+06	65.158
1550.0	139.10	-1.50083E+06	246.80	-1.88337E+06	63.468
1600.0	139.64	-1.49386E+06	251.23	-1.89583E+06	61.891
1650.0	140.15	-1.48687E+06	255.53	-1.90850E+06	60.416
1700.0	140.62	-1.47985E+06	259.72	-1.92138E+06	59.035
1750.0	141.06	-1.47281E+06	263.80	-1.93447E+06	57.739
1800.0	141.48	-1.46574E+06	267.78	-1.94776E+06	56.521
1850.0	141.89	-1.45866E+06	271.67	-1.96124E+06	55.374
1900.0	142.28	-1.45156E+06	275.46	-1.97492E+06	54.293
1950.0	142.66	-1.44443E+06	279.16	-1.98879E+06	53.272
2000.0	143.04	-1.43729E+06	282.77	-2.00283E+06	52.307
2050.0	143.41	-1.43013E+06	286.31	-2.01706E+06	51.394
2100.0	143.78	-1.42295E+06	289.77	-2.03146E+06	50.529
2150.0	144.15	-1.41575E+06	293.16	-2.04604E+06	49.708
2200.0	144.52	-1.40853E+06	296.48	-2.06078E+06	48.928
2250.0	144.89	-1.40130E+06	299.73	-2.07568E+06	48.187
2300.0	145.27	-1.39404E+06	302.92	-2.09075E+06	47.481

AL2O3<AL2O3_KAPPA>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.751	-1.66230E+06	53.555	-1.67827E+06	294.02
300.00	81.175	-1.66215E+06	54.056	-1.67837E+06	292.22
350.00	90.897	-1.65784E+06	67.338	-1.68141E+06	250.93
400.00	98.198	-1.65310E+06	79.974	-1.68509E+06	220.05
450.00	103.91	-1.64805E+06	91.882	-1.68939E+06	196.09
500.00	108.47	-1.64273E+06	103.08	-1.69427E+06	176.99
550.00	112.12	-1.63721E+06	113.59	-1.69969E+06	161.42
600.00	115.02	-1.63153E+06	123.48	-1.70562E+06	148.48
650.00	117.44	-1.62572E+06	132.78	-1.71203E+06	137.58
700.00	119.47	-1.61980E+06	141.56	-1.71889E+06	128.26
750.00	121.23	-1.61378E+06	149.86	-1.72617E+06	120.22
800.00	122.77	-1.60768E+06	157.74	-1.73387E+06	113.21
850.00	124.14	-1.60150E+06	165.22	-1.74194E+06	107.04
900.00	125.37	-1.59526E+06	172.35	-1.75038E+06	101.59
950.00	126.50	-1.58897E+06	179.16	-1.75917E+06	96.724
1000.0	127.54	-1.58262E+06	185.68	-1.76829E+06	92.364
1050.0	128.51	-1.57621E+06	191.93	-1.77774E+06	88.435
1100.0	129.41	-1.56977E+06	197.92	-1.78748E+06	84.878
1150.0	130.26	-1.56327E+06	203.70	-1.79752E+06	81.644
1200.0	131.07	-1.55674E+06	209.26	-1.80785E+06	78.692
1250.0	131.83	-1.55017E+06	214.62	-1.81845E+06	75.987
1300.0	132.56	-1.54356E+06	219.81	-1.82931E+06	73.501
1350.0	133.26	-1.53691E+06	224.82	-1.84042E+06	71.209
1400.0	133.93	-1.53023E+06	229.68	-1.85179E+06	69.089
1450.0	134.58	-1.52352E+06	234.39	-1.86339E+06	67.125
1500.0	135.20	-1.51677E+06	238.97	-1.87523E+06	65.299
1550.0	135.78	-1.51000E+06	243.41	-1.88729E+06	63.599
1600.0	136.31	-1.50320E+06	247.73	-1.89956E+06	62.013
1650.0	136.80	-1.49637E+06	251.93	-1.91206E+06	60.529
1700.0	137.26	-1.48952E+06	256.02	-1.92476E+06	59.139
1750.0	137.69	-1.48264E+06	260.01	-1.93766E+06	57.834
1800.0	138.11	-1.47575E+06	263.89	-1.95075E+06	56.608
1850.0	138.50	-1.46883E+06	267.68	-1.96404E+06	55.453
1900.0	138.88	-1.46190E+06	271.38	-1.97752E+06	54.364
1950.0	139.26	-1.45495E+06	274.99	-1.99118E+06	53.336
2000.0	139.62	-1.44797E+06	278.52	-2.00502E+06	52.364
2050.0	139.98	-1.44098E+06	281.97	-2.01903E+06	51.444
2100.0	140.34	-1.43398E+06	285.35	-2.03322E+06	50.572
2150.0	140.70	-1.42695E+06	288.66	-2.04757E+06	49.745
2200.0	141.06	-1.41990E+06	291.90	-2.06208E+06	48.959
2250.0	141.43	-1.41284E+06	295.07	-2.07675E+06	48.211
2300.0	141.80	-1.40576E+06	298.18	-2.09159E+06	47.500

Al2O5Si<ANDALUSITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	122.75	-2.59207E+06	93.220	-2.61987E+06	458.98
300.00	123.32	-2.59184E+06	93.981	-2.62004E+06	456.18
350.00	137.59	-2.58531E+06	114.09	-2.62524E+06	391.79
400.00	149.56	-2.57812E+06	133.27	-2.63143E+06	343.62
450.00	158.88	-2.57040E+06	151.45	-2.63855E+06	306.27
500.00	165.37	-2.56228E+06	168.55	-2.64656E+06	276.48
550.00	170.42	-2.55388E+06	184.56	-2.65539E+06	252.18
600.00	174.56	-2.54526E+06	199.57	-2.66500E+06	232.00
650.00	178.04	-2.53644E+06	213.69	-2.67533E+06	214.99
700.00	181.05	-2.52746E+06	226.99	-2.68635E+06	200.45
750.00	183.72	-2.51834E+06	239.58	-2.69802E+06	187.90
800.00	186.12	-2.50909E+06	251.51	-2.71030E+06	176.96
850.00	188.31	-2.49973E+06	262.86	-2.72316E+06	167.34
900.00	190.34	-2.49026E+06	273.68	-2.73658E+06	158.82
950.00	192.24	-2.48070E+06	284.02	-2.75052E+06	151.23
1000.0	194.03	-2.47104E+06	293.93	-2.76497E+06	144.42
1050.0	195.74	-2.46130E+06	303.44	-2.77991E+06	138.29
1100.0	197.38	-2.45147E+06	312.58	-2.79531E+06	132.73
1150.0	198.96	-2.44156E+06	321.39	-2.81116E+06	127.68
1200.0	200.49	-2.43157E+06	329.89	-2.82745E+06	123.07
1250.0	201.98	-2.42151E+06	338.11	-2.84415E+06	118.85
1300.0	203.43	-2.41138E+06	346.06	-2.86125E+06	114.96
1350.0	204.85	-2.40117E+06	353.76	-2.87875E+06	111.38
1400.0	206.24	-2.39089E+06	361.24	-2.89662E+06	108.07
1450.0	207.60	-2.38055E+06	368.50	-2.91487E+06	105.00
1500.0	208.95	-2.37013E+06	375.56	-2.93347E+06	102.15
1550.0	210.27	-2.35965E+06	382.43	-2.95242E+06	99.493
1600.0	211.59	-2.34911E+06	389.13	-2.97171E+06	97.014
1650.0	212.89	-2.33849E+06	395.66	-2.99133E+06	94.695
1700.0	214.19	-2.32782E+06	402.03	-3.01127E+06	92.523
1750.0	215.47	-2.31707E+06	408.26	-3.03153E+06	90.484
1800.0	216.75	-2.30627E+06	414.35	-3.05210E+06	88.567
1850.0	218.02	-2.29540E+06	420.31	-3.07296E+06	86.763
1900.0	219.28	-2.28447E+06	426.14	-3.09413E+06	85.061
1950.0	220.54	-2.27347E+06	431.85	-3.11558E+06	83.455
2000.0	221.79	-2.26241E+06	437.45	-3.13731E+06	81.936
2050.0	223.03	-2.25129E+06	442.94	-3.15932E+06	80.498
2100.0	224.27	-2.24011E+06	448.33	-3.18160E+06	79.136
2150.0	225.50	-2.22887E+06	453.62	-3.20415E+06	77.843
2200.0	226.72	-2.21756E+06	458.82	-3.22696E+06	76.616
2250.0	227.94	-2.20619E+06	463.93	-3.25003E+06	75.449
2300.0	229.15	-2.19477E+06	468.95	-3.27335E+06	74.338
2350.0	230.36	-2.18328E+06	473.89	-3.29693E+06	73.281
2400.0	231.56	-2.17173E+06	478.75	-3.32074E+06	72.272
2450.0	232.76	-2.16012E+06	483.54	-3.34480E+06	71.310
2500.0	233.95	-2.14845E+06	488.26	-3.36909E+06	70.392
2550.0	235.14	-2.13673E+06	492.90	-3.39362E+06	69.514
2600.0	236.32	-2.12494E+06	497.48	-3.41838E+06	68.674
2650.0	237.50	-2.11309E+06	501.99	-3.44337E+06	67.871
2700.0	238.67	-2.10119E+06	506.44	-3.46858E+06	67.102
2750.0	239.84	-2.08923E+06	510.83	-3.49401E+06	66.365
2800.0	241.00	-2.07721E+06	515.16	-3.51966E+06	65.658
2850.0	242.16	-2.06513E+06	519.44	-3.54553E+06	64.981
2900.0	243.32	-2.05299E+06	523.66	-3.57161E+06	64.330
2950.0	244.46	-2.04080E+06	527.83	-3.59789E+06	63.705
3000.0	245.61	-2.02854E+06	531.95	-3.62439E+06	63.105

Al2O5Si<KYANITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	121.75	-2.59433E+06	83.814	-2.61932E+06	458.88
300.00	122.34	-2.59411E+06	84.569	-2.61948E+06	456.08
350.00	136.66	-2.58762E+06	104.54	-2.62421E+06	391.63
400.00	148.27	-2.58048E+06	123.58	-2.62991E+06	343.42
450.00	157.78	-2.57282E+06	141.61	-2.63655E+06	306.03
500.00	165.50	-2.56474E+06	158.65	-2.64406E+06	276.22
550.00	171.61	-2.55630E+06	174.72	-2.65240E+06	251.90
600.00	176.23	-2.54760E+06	189.86	-2.66152E+06	231.70
650.00	180.10	-2.53869E+06	204.12	-2.67137E+06	214.67
700.00	183.25	-2.52960E+06	217.59	-2.68191E+06	200.12
750.00	185.92	-2.52037E+06	230.33	-2.69312E+06	187.56
800.00	188.26	-2.51101E+06	242.40	-2.70494E+06	176.61
850.00	190.38	-2.50155E+06	253.88	-2.71735E+06	166.98
900.00	192.38	-2.49198E+06	264.82	-2.73032E+06	158.46
950.00	194.31	-2.48231E+06	275.27	-2.74382E+06	150.86
1000.0	196.21	-2.47255E+06	285.29	-2.75783E+06	144.05
1050.0	197.98	-2.46269E+06	294.90	-2.77234E+06	137.91
1100.0	199.76	-2.45275E+06	304.15	-2.78732E+06	132.36
1150.0	201.51	-2.44272E+06	313.07	-2.80275E+06	127.30
1200.0	203.17	-2.43260E+06	321.68	-2.81862E+06	122.69
1250.0	204.71	-2.42240E+06	330.01	-2.83491E+06	118.46
1300.0	206.10	-2.41213E+06	338.07	-2.85162E+06	114.58
1350.0	207.48	-2.40179E+06	345.87	-2.86872E+06	110.99
1400.0	208.84	-2.39138E+06	353.44	-2.88620E+06	107.68
1450.0	210.17	-2.38091E+06	360.79	-2.90406E+06	104.61
1500.0	211.49	-2.37037E+06	367.94	-2.92228E+06	101.76
1550.0	212.80	-2.35976E+06	374.89	-2.94085E+06	99.103
1600.0	214.10	-2.34909E+06	381.67	-2.95976E+06	96.624
1650.0	215.41	-2.33835E+06	388.28	-2.97901E+06	94.305
1700.0	216.73	-2.32755E+06	394.73	-2.99859E+06	92.133
1750.0	218.02	-2.31668E+06	401.03	-3.01848E+06	90.094
1800.0	219.30	-2.30575E+06	407.19	-3.03869E+06	88.178
1850.0	220.58	-2.29475E+06	413.22	-3.05920E+06	86.374
1900.0	221.85	-2.28369E+06	419.12	-3.08001E+06	84.673
1950.0	223.11	-2.27256E+06	424.90	-3.10111E+06	83.067
2000.0	224.36	-2.26138E+06	430.56	-3.12250E+06	81.549
2050.0	225.61	-2.25013E+06	436.12	-3.14416E+06	80.112
2100.0	226.86	-2.23882E+06	441.57	-3.16611E+06	78.751
2150.0	228.09	-2.22744E+06	446.92	-3.18832E+06	77.459
2200.0	229.33	-2.21601E+06	452.18	-3.21080E+06	76.232
2250.0	230.56	-2.20451E+06	457.34	-3.23353E+06	75.066
2300.0	231.78	-2.19295E+06	462.43	-3.25653E+06	73.956
2350.0	233.01	-2.18133E+06	467.42	-3.27978E+06	72.899
2400.0	234.23	-2.16965E+06	472.34	-3.30327E+06	71.892
2450.0	235.44	-2.15791E+06	477.18	-3.32701E+06	70.931
2500.0	236.66	-2.14611E+06	481.95	-3.35099E+06	70.013
2550.0	237.87	-2.13424E+06	486.65	-3.37520E+06	69.136
2600.0	239.08	-2.12232E+06	491.28	-3.39965E+06	68.298
2650.0	240.28	-2.11033E+06	495.85	-3.42433E+06	67.496
2700.0	241.49	-2.09829E+06	500.35	-3.44924E+06	66.728
2750.0	242.69	-2.08619E+06	504.79	-3.47436E+06	65.992
2800.0	243.89	-2.07402E+06	509.18	-3.49971E+06	65.286
2850.0	245.09	-2.06180E+06	513.50	-3.52528E+06	64.610
2900.0	246.28	-2.04951E+06	517.78	-3.55106E+06	63.960
2950.0	247.48	-2.03717E+06	522.00	-3.57706E+06	63.336
3000.0	248.67	-2.02477E+06	526.17	-3.60326E+06	62.737

Al₂O₅Si<SILLIMANITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	122.21	-2.58910E+06	96.178	-2.61778E+06	458.61
300.00	122.80	-2.58887E+06	96.936	-2.61796E+06	455.81
350.00	136.62	-2.58237E+06	116.95	-2.62331E+06	391.50
400.00	147.47	-2.57526E+06	135.93	-2.62963E+06	343.39
450.00	156.19	-2.56766E+06	153.82	-2.63688E+06	306.07
500.00	163.20	-2.55967E+06	170.65	-2.64500E+06	276.31
550.00	168.76	-2.55137E+06	186.48	-2.65393E+06	252.04
600.00	173.02	-2.54282E+06	201.36	-2.66363E+06	231.88
650.00	176.60	-2.53407E+06	215.35	-2.67405E+06	214.88
700.00	179.73	-2.52516E+06	228.55	-2.68515E+06	200.36
750.00	182.51	-2.51611E+06	241.05	-2.69689E+06	187.82
800.00	185.03	-2.50692E+06	252.91	-2.70925E+06	176.89
850.00	187.35	-2.49761E+06	264.20	-2.72218E+06	167.28
900.00	189.52	-2.48818E+06	274.97	-2.73566E+06	158.77
950.00	191.56	-2.47866E+06	285.27	-2.74966E+06	151.18
1000.0	193.50	-2.46903E+06	295.15	-2.76418E+06	144.38
1050.0	195.36	-2.45931E+06	304.63	-2.77917E+06	138.25
1100.0	197.16	-2.44949E+06	313.76	-2.79463E+06	132.70
1150.0	199.01	-2.43959E+06	322.57	-2.81054E+06	127.66
1200.0	200.81	-2.42959E+06	331.08	-2.82689E+06	123.05
1250.0	202.55	-2.41951E+06	339.31	-2.84365E+06	118.83
1300.0	204.26	-2.40934E+06	347.29	-2.86081E+06	114.95
1350.0	205.93	-2.39909E+06	355.03	-2.87837E+06	111.37
1400.0	207.57	-2.38875E+06	362.55	-2.89631E+06	108.06
1450.0	209.19	-2.37833E+06	369.86	-2.91462E+06	104.99
1500.0	210.78	-2.36783E+06	376.98	-2.93329E+06	102.14
1550.0	212.36	-2.35725E+06	383.91	-2.95232E+06	99.490
1600.0	213.92	-2.34659E+06	390.68	-2.97168E+06	97.013
1650.0	215.47	-2.33586E+06	397.29	-2.99138E+06	94.697
1700.0	217.00	-2.32505E+06	403.74	-3.01141E+06	92.527
1750.0	218.53	-2.31416E+06	410.05	-3.03175E+06	90.491
1800.0	220.04	-2.30319E+06	416.23	-3.05241E+06	88.576
1850.0	221.55	-2.29215E+06	422.28	-3.07338E+06	86.774
1900.0	223.05	-2.28104E+06	428.21	-3.09464E+06	85.075
1950.0	224.55	-2.26985E+06	434.02	-3.11619E+06	83.471
2000.0	226.04	-2.25858E+06	439.73	-3.13804E+06	81.955
2050.0	227.53	-2.24725E+06	445.33	-3.16017E+06	80.520
2100.0	229.01	-2.23583E+06	450.83	-3.18257E+06	79.160
2150.0	230.49	-2.22434E+06	456.23	-3.20525E+06	77.870
2200.0	231.97	-2.21278E+06	461.55	-3.22819E+06	76.645
2250.0	233.44	-2.20115E+06	466.78	-3.25140E+06	75.481
2300.0	234.91	-2.18944E+06	471.93	-3.27487E+06	74.373
2350.0	236.38	-2.17766E+06	476.99	-3.29859E+06	73.318
2400.0	237.84	-2.16580E+06	481.99	-3.32257E+06	72.312
2450.0	239.31	-2.15387E+06	486.91	-3.34679E+06	71.353
2500.0	240.77	-2.14187E+06	491.75	-3.37126E+06	70.437
2550.0	242.22	-2.12980E+06	496.54	-3.39596E+06	69.562
2600.0	243.68	-2.11765E+06	501.25	-3.42091E+06	68.725
2650.0	245.13	-2.10543E+06	505.91	-3.44609E+06	67.925
2700.0	246.58	-2.09313E+06	510.51	-3.47150E+06	67.158
2750.0	248.03	-2.08077E+06	515.04	-3.49714E+06	66.424
2800.0	249.48	-2.06833E+06	519.53	-3.52300E+06	65.721
2850.0	250.93	-2.05582E+06	523.95	-3.54909E+06	65.046
2900.0	252.37	-2.04324E+06	528.33	-3.57540E+06	64.398
2950.0	253.81	-2.03058E+06	532.66	-3.60192E+06	63.776
3000.0	255.25	-2.01786E+06	536.93	-3.62866E+06	63.179

Al2O7Si2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	224.09	-3.21122E+06	136.45	-3.25190E+06	569.71
300.00	224.36	-3.21081E+06	137.84	-3.25216E+06	566.24
350.00	230.49	-3.19943E+06	172.91	-3.25994E+06	486.51
400.00	235.12	-3.18778E+06	204.00	-3.26938E+06	426.93
450.00	238.87	-3.17593E+06	231.92	-3.28029E+06	380.76
500.00	242.08	-3.16390E+06	257.25	-3.29253E+06	343.96
550.00	244.93	-3.15173E+06	280.46	-3.30598E+06	313.97
600.00	247.54	-3.13941E+06	301.89	-3.32055E+06	289.07
650.00	249.98	-3.12698E+06	321.80	-3.33614E+06	268.09
700.00	252.29	-3.11442E+06	340.41	-3.35270E+06	250.18
750.00	254.52	-3.10175E+06	357.89	-3.37017E+06	234.71
800.00	256.67	-3.08897E+06	374.39	-3.38848E+06	221.24
850.00	258.77	-3.07608E+06	390.01	-3.40759E+06	209.40
900.00	260.83	-3.06309E+06	404.86	-3.42746E+06	198.92
950.00	262.86	-3.05000E+06	419.02	-3.44806E+06	189.58
1000.0	264.86	-3.03681E+06	432.55	-3.46936E+06	181.22
1050.0	266.83	-3.02351E+06	445.52	-3.49131E+06	173.68
1100.0	268.79	-3.01012E+06	457.98	-3.51390E+06	166.86
1150.0	270.73	-2.99663E+06	469.97	-3.53710E+06	160.66
1200.0	272.66	-2.98305E+06	481.53	-3.56089E+06	155.00
1250.0	274.58	-2.96937E+06	492.70	-3.58525E+06	149.82
1300.0	276.50	-2.95559E+06	503.51	-3.61015E+06	145.05
1350.0	278.40	-2.94172E+06	513.98	-3.63559E+06	140.67
1400.0	280.30	-2.92775E+06	524.14	-3.66155E+06	136.61
1450.0	282.19	-2.91369E+06	534.01	-3.68800E+06	132.85
1500.0	284.07	-2.89953E+06	543.61	-3.71494E+06	129.36
1550.0	285.96	-2.88528E+06	552.95	-3.74236E+06	126.11
1600.0	287.83	-2.87094E+06	562.06	-3.77023E+06	123.08
1650.0	289.71	-2.85650E+06	570.95	-3.79856E+06	120.25
1700.0	291.58	-2.84197E+06	579.62	-3.82733E+06	117.60
1750.0	293.45	-2.82734E+06	588.10	-3.85652E+06	115.11
1800.0	295.32	-2.81262E+06	596.40	-3.88613E+06	112.77

Al6O13Si2<MULLITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	325.64	-6.81921E+06	274.89	-6.90117E+06	1209.0
300.00	327.03	-6.81861E+06	276.91	-6.90168E+06	1201.7
350.00	361.68	-6.80136E+06	329.99	-6.91686E+06	1032.3
400.00	390.74	-6.78253E+06	380.25	-6.93463E+06	905.55
450.00	414.18	-6.76238E+06	427.68	-6.95484E+06	807.28
500.00	432.00	-6.74121E+06	472.29	-6.97735E+06	728.90
550.00	447.24	-6.71921E+06	514.20	-7.00202E+06	664.98
600.00	459.82	-6.69653E+06	553.67	-7.02873E+06	611.89
650.00	470.42	-6.67326E+06	590.91	-7.05735E+06	567.12
700.00	479.49	-6.64951E+06	626.11	-7.08779E+06	528.88
750.00	487.32	-6.62533E+06	659.47	-7.11993E+06	495.86
800.00	494.13	-6.60079E+06	691.14	-7.15371E+06	467.08
850.00	499.71	-6.57595E+06	721.27	-7.18902E+06	441.77
900.00	504.80	-6.55083E+06	749.98	-7.22581E+06	419.36
950.00	509.36	-6.52547E+06	777.39	-7.26400E+06	399.39
1000.0	513.38	-6.49990E+06	803.62	-7.30353E+06	381.49
1050.0	516.83	-6.47415E+06	828.76	-7.34434E+06	365.35
1100.0	519.70	-6.44823E+06	852.87	-7.38639E+06	350.74
1150.0	522.71	-6.42217E+06	876.04	-7.42961E+06	337.46
1200.0	525.62	-6.39596E+06	898.35	-7.47398E+06	325.33
1250.0	528.42	-6.36961E+06	919.86	-7.51944E+06	314.21
1300.0	531.12	-6.34312E+06	940.64	-7.56595E+06	304.00
1350.0	533.71	-6.31650E+06	960.73	-7.61349E+06	294.58
1400.0	536.20	-6.28975E+06	980.19	-7.66201E+06	285.87
1450.0	538.58	-6.26288E+06	999.04	-7.71150E+06	277.79
1500.0	540.87	-6.23590E+06	1017.3	-7.76191E+06	270.29
1550.0	542.60	-6.20881E+06	1035.1	-7.81322E+06	263.30
1600.0	544.33	-6.18164E+06	1052.4	-7.86541E+06	256.77
1650.0	546.05	-6.15438E+06	1069.1	-7.91845E+06	250.67
1700.0	547.77	-6.12703E+06	1085.5	-7.97232E+06	244.95
1750.0	549.48	-6.09960E+06	1101.4	-8.02699E+06	239.59
1800.0	551.19	-6.07208E+06	1116.9	-8.08245E+06	234.54
1850.0	552.89	-6.04448E+06	1132.0	-8.13867E+06	229.79
1900.0	554.59	-6.01679E+06	1146.8	-8.19564E+06	225.31
1950.0	556.29	-5.98902E+06	1161.2	-8.25334E+06	221.08
2000.0	557.98	-5.96116E+06	1175.3	-8.31175E+06	217.08

Al2O4Sr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.03	-2.33886E+06	108.78	-2.37129E+06	415.43
300.00	119.77	-2.33864E+06	109.52	-2.37149E+06	412.90
350.00	135.65	-2.33222E+06	129.27	-2.37746E+06	354.81
400.00	146.04	-2.32516E+06	148.11	-2.38440E+06	311.36
450.00	153.24	-2.31767E+06	165.75	-2.39225E+06	277.68
500.00	158.46	-2.30987E+06	182.18	-2.40096E+06	250.82
550.00	162.38	-2.30184E+06	197.47	-2.41045E+06	228.92
600.00	165.43	-2.29365E+06	211.74	-2.42069E+06	210.73
650.00	167.85	-2.28531E+06	225.08	-2.43161E+06	195.40
700.00	169.83	-2.27687E+06	237.59	-2.44318E+06	182.31
750.00	171.47	-2.26833E+06	249.37	-2.45536E+06	171.00
800.00	172.86	-2.25973E+06	260.48	-2.46811E+06	161.15
850.00	174.05	-2.25105E+06	270.99	-2.48140E+06	152.48
900.00	175.09	-2.24232E+06	280.97	-2.49520E+06	144.81
932.00	175.69	-2.23671E+06	287.10	-2.50429E+06	140.35
932.00	173.40	-2.23479E+06	289.17	-2.50429E+06	140.35
950.00	173.93	-2.23166E+06	292.49	-2.50952E+06	137.98
1000.0	175.39	-2.22293E+06	301.45	-2.52437E+06	131.86
1050.0	176.86	-2.21412E+06	310.04	-2.53966E+06	126.34
1100.0	178.32	-2.20524E+06	318.30	-2.55537E+06	121.34
1150.0	179.79	-2.19629E+06	326.26	-2.57149E+06	116.80
1200.0	181.25	-2.18726E+06	333.94	-2.58799E+06	112.65
1250.0	182.72	-2.17816E+06	341.37	-2.60488E+06	108.85
1300.0	184.18	-2.16899E+06	348.57	-2.62213E+06	105.36
1350.0	185.64	-2.15974E+06	355.54	-2.63973E+06	102.13
1400.0	187.11	-2.15043E+06	362.32	-2.65768E+06	99.157
1450.0	188.57	-2.14103E+06	368.91	-2.67596E+06	96.396
1500.0	190.04	-2.13157E+06	375.33	-2.69456E+06	93.831
1550.0	191.50	-2.12203E+06	381.59	-2.71349E+06	91.442
1600.0	192.97	-2.11242E+06	387.69	-2.73272E+06	89.212

Al2O6Sr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	209.15	-3.54468E+06	255.38	-3.62082E06	634.34
300.00	209.92	-3.54430E+06	256.67	-3.62130E+06	630.51
350.00	226.62	-3.53335E+06	290.37	-3.63499E+06	542.48
400.00	238.02	-3.52172E+06	321.42	-3.65029E+06	476.67
450.00	246.33	-3.50960E+06	349.96	-3.66709E+06	425.65
500.00	252.73	-3.49712E+06	376.26	-3.68525E+06	384.99
550.00	257.88	-3.48435E+06	400.60	-3.70468E+06	351.83
600.00	262.18	-3.47135E+06	423.23	-3.72528E+06	324.31
650.00	265.88	-3.45814E+06	444.36	-3.74698E+06	301.10
700.00	269.14	-3.44477E+06	464.19	-3.76970E+06	281.29
750.00	272.08	-3.43123E+06	482.86	-3.79338E+06	264.19
800.00	274.78	-3.41756E+06	500.50	-3.81796E+06	249.28
850.00	277.29	-3.40376E+06	517.24	-3.84341E+06	236.18
900.00	279.64	-3.38983E+06	533.16	-3.86967E+06	224.58
950.00	281.89	-3.37580E+06	548.34	-3.89671E+06	214.25
1000.0	284.03	-3.36165E+06	562.85	-3.92450E+06	204.99
1050.0	286.10	-3.34739E+06	576.76	-3.95299E+06	196.65
1100.0	288.10	-3.33304E+06	590.11	-3.98216E+06	189.09
1150.0	290.06	-3.31858E+06	602.96	-4.01199E+06	182.23
1200.0	291.96	-3.30403E+06	615.35	-4.04245E+06	175.96
1250.0	293.84	-3.28939E+06	627.30	-4.07352E+06	170.22
1300.0	295.68	-3.27465E+06	638.87	-4.10518E+06	164.94
1350.0	297.49	-3.25982E+06	650.06	-4.13740E+06	160.08
1400.0	299.28	-3.24490E+06	660.91	-4.17018E+06	155.59
1450.0	301.05	-3.22989E+06	671.44	-4.20349E+06	151.42
1500.0	302.80	-3.21480E+06	681.68	-4.23732E+06	147.55
1550.0	304.54	-3.19961E+06	691.64	-4.27165E+06	143.95
1600.0	306.26	-3.18435E+06	701.33	-4.30647E+06	140.59
1650.0	307.97	-3.16899E+06	710.78	-4.34178E+06	137.45
1700.0	309.67	-3.15355E+06	720.00	-4.37755E+06	134.50
1750.0	311.36	-3.13802E+06	729.00	-4.41377E+06	131.74
1800.0	313.05	-3.12241E+06	737.80	-4.45045E+06	129.15
1850.0	314.72	-3.10672E+06	746.40	-4.48755E+06	126.70
1900.0	316.39	-3.09094E+06	754.81	-4.52508E+06	124.40

Al2O7Sr4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	253.66	-4.11873E+06	322.57	-4.21490E+06	738.41
300.00	254.54	-4.11826E+06	324.14	-4.21550E+06	733.97
350.00	273.71	-4.10502E+06	364.92	-4.23274E+06	631.69
400.00	286.79	-4.09099E+06	402.37	-4.25194E+06	555.23
450.00	296.33	-4.07640E+06	436.73	-4.27293E+06	495.98
500.00	303.68	-4.06139E+06	468.35	-4.29557E+06	448.74
550.00	309.59	-4.04606E+06	497.58	-4.31972E+06	410.24
600.00	314.52	-4.03045E+06	524.73	-4.34529E+06	378.28
650.00	318.77	-4.01461E+06	550.08	-4.37217E+06	351.34
700.00	322.51	-3.99858E+06	573.84	-4.40027E+06	328.34
750.00	325.88	-3.98237E+06	596.21	-4.42953E+06	308.49
800.00	328.98	-3.96600E+06	617.34	-4.45987E+06	291.19
850.00	331.85	-3.94948E+06	637.37	-4.49124E+06	275.99
900.00	334.56	-3.93281E+06	656.42	-4.52359E+06	262.54
950.00	337.13	-3.91602E+06	674.58	-4.55687E+06	250.55
1000.0	339.59	-3.89910E+06	691.93	-4.59104E+06	239.81
1050.0	341.96	-3.88206E+06	708.56	-4.62605E+06	230.13
1100.0	344.26	-3.86491E+06	724.52	-4.66188E+06	221.37
1150.0	346.50	-3.84764E+06	739.87	-4.69849E+06	213.41
1200.0	348.69	-3.83026E+06	754.67	-4.73586E+06	206.14
1250.0	350.84	-3.81277E+06	768.95	-4.77395E+06	199.49
1300.0	352.95	-3.79518E+06	782.75	-4.81275E+06	193.37
1350.0	355.03	-3.77748E+06	796.11	-4.85222E+06	187.74
1400.0	357.08	-3.75967E+06	809.06	-4.89235E+06	182.53
1450.0	359.11	-3.74177E+06	821.62	-4.93312E+06	177.71
1500.0	361.12	-3.72376E+06	833.83	-4.97451E+06	173.22
1550.0	363.11	-3.70566E+06	845.70	-5.01650E+06	169.05
1600.0	365.09	-3.68745E+06	857.26	-5.05907E+06	165.16
1650.0	367.05	-3.66915E+06	868.53	-5.10222E+06	161.52
1700.0	369.01	-3.65075E+06	879.51	-5.14592E+06	158.11
1750.0	370.95	-3.63225E+06	890.24	-5.19016E+06	154.91
1800.0	372.88	-3.61365E+06	900.72	-5.23494E+06	151.91
1850.0	374.80	-3.59496E+06	910.96	-5.28023E+06	149.08
1900.0	376.72	-3.57617E+06	920.98	-5.32603E+06	146.42
1950.0	378.63	-3.55729E+06	930.79	-5.37233E+06	143.90
2000.0	380.53	-3.53831E+06	940.40	-5.41911E+06	141.53

Al2O5Ti

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	136.40	-2.60684E+06	109.62	-2.63952E+06	462.42
300.00	137.09	-2.60659E+06	110.47	-2.63973E+06	459.61
350.00	152.02	-2.59933E+06	132.80	-2.64581E+06	394.86
400.00	162.10	-2.59147E+06	153.80	-2.65299E+06	346.44
450.00	169.36	-2.58317E+06	173.33	-2.66117E+06	308.89
500.00	174.87	-2.57456E+06	191.48	-2.67030E+06	278.96
550.00	179.24	-2.56570E+06	208.35	-2.68030E+06	254.55
600.00	182.82	-2.55665E+06	224.11	-2.69111E+06	234.28
650.00	185.86	-2.54743E+06	238.87	-2.70269E+06	217.19
700.00	188.50	-2.53807E+06	252.74	-2.71498E+06	202.59
750.00	190.84	-2.52858E+06	265.82	-2.72795E+06	189.99
800.00	192.96	-2.51899E+06	278.21	-2.74156E+06	179.00
850.00	194.91	-2.50929E+06	289.97	-2.75576E+06	169.34
900.00	196.72	-2.49950E+06	301.16	-2.77054E+06	160.79
950.00	198.42	-2.48962E+06	311.84	-2.78587E+06	153.17
1000.0	200.03	-2.47966E+06	322.06	-2.80172E+06	146.34
1050.0	201.58	-2.46962E+06	331.86	-2.81807E+06	140.19
1100.0	203.06	-2.45950E+06	341.27	-2.83490E+06	134.61
1150.0	204.50	-2.44931E+06	350.33	-2.85219E+06	129.55
1200.0	205.90	-2.43905E+06	359.06	-2.86993E+06	124.92
1250.0	207.27	-2.42872E+06	367.49	-2.88809E+06	120.68
1300.0	208.60	-2.41833E+06	375.65	-2.90667E+06	116.79
1350.0	209.91	-2.40786E+06	383.55	-2.92565E+06	113.20
1400.0	211.20	-2.39734E+06	391.20	-2.94502E+06	109.88
1450.0	212.47	-2.38674E+06	398.64	-2.96477E+06	106.80
1500.0	213.73	-2.37609E+06	405.86	-2.98488E+06	103.94
1550.0	214.97	-2.36537E+06	412.89	-3.00535E+06	101.28
1600.0	216.20	-2.35459E+06	419.73	-3.02617E+06	98.792
1650.0	217.41	-2.34375E+06	426.41	-3.04732E+06	96.468
1700.0	218.62	-2.33285E+06	432.91	-3.06881E+06	94.291
1750.0	219.82	-2.32189E+06	439.27	-3.09061E+06	92.247
1800.0	221.02	-2.31087E+06	445.48	-3.11273E+06	90.327
1850.0	222.20	-2.29979E+06	451.55	-3.13516E+06	88.519
1900.0	223.38	-2.28865E+06	457.49	-3.15788E+06	86.814
1950.0	224.56	-2.27745E+06	463.31	-3.18090E+06	85.205
2000.0	225.73	-2.26619E+06	469.01	-3.20421E+06	83.683
2050.0	226.89	-2.25488E+06	474.60	-3.22780E+06	82.243
2100.0	228.05	-2.24350E+06	480.08	-3.25167E+06	80.879

Al2O4Zn

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.37	-2.07129E+06	87.027	-2.09724E+06	367.42
300.00	120.03	-2.07107E+06	87.767	-2.09740E+06	365.18
350.00	134.37	-2.06468E+06	107.43	-2.10228E+06	313.74
400.00	143.95	-2.05771E+06	126.04	-2.10812E+06	275.29
450.00	150.76	-2.05033E+06	143.41	-2.11486E+06	245.48
500.00	155.86	-2.04266E+06	159.57	-2.12244E+06	221.72
550.00	159.82	-2.03476E+06	174.61	-2.13080E+06	202.36
600.00	163.03	-2.02669E+06	188.66	-2.13989E+06	186.29
650.00	165.69	-2.01847E+06	201.82	-2.14965E+06	172.74
700.00	167.97	-2.01013E+06	214.18	-2.16006E+06	161.18
750.00	169.95	-2.00168E+06	225.84	-2.17106E+06	151.20
800.00	171.72	-1.99314E+06	236.87	-2.18263E+06	142.51
850.00	173.31	-1.98451E+06	247.33	-2.19474E+06	134.87
900.00	174.77	-1.97581E+06	257.27	-2.20735E+06	128.11
950.00	176.13	-1.96703E+06	266.76	-2.22046E+06	122.09
1000.0	177.40	-1.95820E+06	275.83	-2.23402E+06	116.69
1050.0	178.60	-1.94930E+06	284.51	-2.24803E+06	111.83
1100.0	179.75	-1.94034E+06	292.85	-2.26247E+06	107.43
1150.0	180.85	-1.93132E+06	300.86	-2.27731E+06	103.44
1200.0	181.90	-1.92225E+06	308.58	-2.29255E+06	99.790
1250.0	182.93	-1.91313E+06	316.03	-2.30817E+06	96.451
1300.0	183.93	-1.90396E+06	323.22	-2.32415E+06	93.383

ALP<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.072	4.30200E+05	225.78	3.62883E+05	-63.574
300.00	35.100	4.30265E+05	226.00	3.62466E+05	-63.109
350.00	35.699	4.32036E+05	231.46	3.51026E+05	-52.386
400.00	36.093	4.33831E+05	236.25	3.39331E+05	-44.311
450.00	36.367	4.35643E+05	240.52	3.27410E+05	-38.004
500.00	36.568	4.37467E+05	244.36	3.15286E+05	-32.937
550.00	36.721	4.39299E+05	247.85	3.02979E+05	-28.774
600.00	36.840	4.41138E+05	251.06	2.90505E+05	-25.290
650.00	36.936	4.42983E+05	254.01	2.77878E+05	-22.330
700.00	37.015	4.44832E+05	256.75	2.65108E+05	-19.782
750.00	37.081	4.46684E+05	259.30	2.52206E+05	-17.565
800.00	37.138	4.48540E+05	261.70	2.39180E+05	-15.616
850.00	37.187	4.50398E+05	263.95	2.26039E+05	-13.890
900.00	37.230	4.52258E+05	266.08	2.12787E+05	-12.350
950.00	37.269	4.54121E+05	268.09	1.99433E+05	-10.965
1000.0	37.304	4.55985E+05	270.01	1.85980E+05	-9.7143
1050.0	37.335	4.57851E+05	271.83	1.72434E+05	-8.5779
1100.0	37.364	4.59719E+05	273.56	1.58798E+05	-7.5405
1150.0	37.390	4.61587E+05	275.23	1.45078E+05	-6.5895
1200.0	37.415	4.63458E+05	276.82	1.31277E+05	-5.7142
1250.0	37.438	4.65329E+05	278.34	1.17398E+05	-4.9057
1300.0	37.460	4.67201E+05	279.81	1.03444E+05	-4.1563
1350.0	37.480	4.69075E+05	281.23	89417.	-3.4597
1400.0	37.499	4.70949E+05	282.59	75322.	-2.8102
1450.0	37.518	4.72825E+05	283.91	61159.	-2.2031
1500.0	37.535	4.74701E+05	285.18	46932.	-1.6343
1550.0	37.552	4.76578E+05	286.41	32642.	-1.1000
1600.0	37.568	4.78456E+05	287.60	18291.	-0.59713
1650.0	37.583	4.80335E+05	288.76	3881.9	-0.12289
1700.0	37.598	4.82215E+05	289.88	-10584.	0.32521
1750.0	37.612	4.84095E+05	290.97	-25106.	0.74935
1800.0	37.625	4.85976E+05	292.03	-39681.	1.1515
1850.0	37.638	4.87857E+05	293.06	-54308.	1.5334
1900.0	37.651	4.89740E+05	294.07	-68987.	1.8965
1950.0	37.663	4.91622E+05	295.04	-83715.	2.2424
2000.0	37.675	4.93506E+05	296.00	-98491.	2.5723
2050.0	37.686	4.95390E+05	296.93	-1.13314E+05	2.8872
2100.0	37.697	4.97275E+05	297.84	-1.28183E+05	3.1883
2150.0	37.708	4.99160E+05	298.72	-1.43097E+05	3.4765
2200.0	37.718	5.01045E+05	299.59	-1.58055E+05	3.7526
2250.0	37.728	5.02931E+05	300.44	-1.73056E+05	4.0175
2300.0	37.738	5.04818E+05	301.27	-1.88099E+05	4.2718
2350.0	37.747	5.06705E+05	302.08	-2.03183E+05	4.5161
2400.0	37.756	5.08593E+05	302.87	-2.18307E+05	4.7512
2450.0	37.765	5.10481E+05	303.65	-2.33470E+05	4.9775
2500.0	37.773	5.12369E+05	304.42	-2.48672E+05	5.1956
2550.0	37.782	5.14258E+05	305.16	-2.63911E+05	5.4059
2600.0	37.789	5.16147E+05	305.90	-2.79188E+05	5.6088
2650.0	37.797	5.18037E+05	306.62	-2.94501E+05	5.8048
2700.0	37.804	5.19927E+05	307.32	-3.09850E+05	5.9942
2750.0	37.812	5.21818E+05	308.02	-3.25233E+05	6.1775
2800.0	37.818	5.23708E+05	308.70	-3.40651E+05	6.3548
2850.0	37.825	5.25599E+05	309.37	-3.56103E+05	6.5265
2900.0	37.831	5.27491E+05	310.03	-3.71588E+05	6.6929
2950.0	37.837	5.29383E+05	310.67	-3.87106E+05	6.8542
3000.0	37.843	5.31275E+05	311.31	-4.02655E+05	7.0107

AlP2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.480	3.32700E+05	261.37	2.54772E+05	-44.634
300.00	53.560	3.32799E+05	261.70	2.54288E+05	-44.274
350.00	55.333	3.35524E+05	270.10	2.40988E+05	-35.965
400.00	56.572	3.38324E+05	277.58	2.27293E+05	-29.681
450.00	57.493	3.41176E+05	284.30	2.13243E+05	-24.752
500.00	58.210	3.44069E+05	290.39	1.98874E+05	-20.776
550.00	58.787	3.46995E+05	295.97	1.84213E+05	-17.495
600.00	59.264	3.49947E+05	301.10	1.69284E+05	-14.737
650.00	59.663	3.52920E+05	305.86	1.54109E+05	-12.384
700.00	60.003	3.55912E+05	310.30	1.38703E+05	-10.350
750.00	60.292	3.58919E+05	314.45	1.23084E+05	-8.5721
800.00	60.540	3.61940E+05	318.35	1.07263E+05	-7.0034
850.00	60.751	3.64973E+05	322.02	91253.	-5.6076
900.00	60.929	3.68015E+05	325.50	75064.	-4.3565
950.00	61.078	3.71065E+05	328.80	58706.	-3.2278
1000.0	61.199	3.74122E+05	331.94	42187.	-2.2035
1050.0	61.295	3.77185E+05	334.92	25514.	-1.2692
1100.0	61.365	3.80251E+05	337.78	8696.4	-0.41295
1150.0	61.447	3.83322E+05	340.51	-8261.2	0.37522
1200.0	61.519	3.86396E+05	343.12	-25352.	1.1035
1250.0	61.583	3.89473E+05	345.64	-42572.	1.7789
1300.0	61.640	3.92554E+05	348.05	-59914.	2.4073
1350.0	61.690	3.95637E+05	350.38	-77376.	2.9938
1400.0	61.736	3.98723E+05	352.62	-94951.	3.5426
1450.0	61.777	4.01811E+05	354.79	-1.12637E+05	4.0575
1500.0	61.814	4.04901E+05	356.89	-1.30429E+05	4.5418
1550.0	61.848	4.07992E+05	358.91	-1.48324E+05	4.9984
1600.0	61.878	4.11085E+05	360.88	-1.66319E+05	5.4296
1650.0	61.906	4.14180E+05	362.78	-1.84411E+05	5.8378
1700.0	61.932	4.17276E+05	364.63	-2.02597E+05	6.2249
1750.0	61.956	4.20373E+05	366.43	-2.20873E+05	6.5925
1800.0	61.977	4.23471E+05	368.17	-2.39238E+05	6.9423
1850.0	61.997	4.26571E+05	369.87	-2.57690E+05	7.2757
1900.0	62.016	4.29671E+05	371.52	-2.76225E+05	7.5938
1950.0	62.033	4.32772E+05	373.14	-2.94841E+05	7.8977
2000.0	62.049	4.35874E+05	374.71	-3.13538E+05	8.1886
2050.0	62.064	4.38977E+05	376.24	-3.32311E+05	8.4672
2100.0	62.078	4.42081E+05	377.73	-3.51161E+05	8.7344
2150.0	62.090	4.45185E+05	379.19	-3.70084E+05	8.9910
2200.0	62.102	4.48290E+05	380.62	-3.89080E+05	9.2377
2250.0	62.114	4.51395E+05	382.02	-4.08146E+05	9.4750
2300.0	62.124	4.54501E+05	383.38	-4.27281E+05	9.7036
2350.0	62.134	4.57608E+05	384.72	-4.46484E+05	9.9240
2400.0	62.143	4.60715E+05	386.03	-4.65753E+05	10.137
2450.0	62.152	4.63822E+05	387.31	-4.85086E+05	10.342
2500.0	62.160	4.66930E+05	388.57	-5.04483E+05	10.540
2550.0	62.168	4.70038E+05	389.80	-5.23942E+05	10.732
2600.0	62.175	4.73147E+05	391.00	-5.43462E+05	10.918
2650.0	62.182	4.76255E+05	392.19	-5.63042E+05	11.098
2700.0	62.188	4.79365E+05	393.35	-5.82681E+05	11.272
2750.0	62.194	4.82474E+05	394.49	-6.02377E+05	11.442
2800.0	62.200	4.85584E+05	395.61	-6.22129E+05	11.606
2850.0	62.205	4.88694E+05	396.71	-6.41938E+05	11.765
2900.0	62.211	4.91805E+05	397.79	-6.61800E+05	11.920
2950.0	62.215	4.94915E+05	398.86	-6.81717E+05	12.071
3000.0	62.220	4.98026E+05	399.90	-7.01686E+05	12.217

ALS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.400	2.32692E+05	230.62	1.63934E+05	-28.720
300.00	33.440	2.32754E+05	230.82	1.63507E+05	-28.468
350.00	34.308	2.34449E+05	236.05	1.51833E+05	-22.659
400.00	34.908	2.36180E+05	240.67	1.39913E+05	-18.270
450.00	35.366	2.37938E+05	244.81	1.27774E+05	-14.831
500.00	35.751	2.39716E+05	248.55	1.15438E+05	-12.059
550.00	36.099	2.41512E+05	251.98	1.02924E+05	-9.7746
600.00	36.434	2.43325E+05	255.13	90245.	-7.8563
650.00	36.771	2.45155E+05	258.06	77414.	-6.2209
700.00	37.118	2.47003E+05	260.80	64442.	-4.8086
750.00	37.482	2.48867E+05	263.37	51337.	-3.5753
800.00	37.868	2.50751E+05	265.81	38107.	-2.4881
850.00	38.278	2.52655E+05	268.11	24758.	-1.5214
900.00	38.716	2.54579E+05	270.31	11297.	-0.65566
950.00	39.183	2.56527E+05	272.42	-2271.3	0.12488
1000.0	39.681	2.58498E+05	274.44	-15943.	0.83277
1050.0	40.215	2.60496E+05	276.39	-29714.	1.4782
1100.0	40.748	2.62520E+05	278.27	-43581.	2.0694
1150.0	41.275	2.64570E+05	280.10	-57541.	2.6135
1200.0	41.789	2.66647E+05	281.86	-71590.	3.1161
1250.0	42.288	2.68749E+05	283.58	-85726.	3.5822
1300.0	42.766	2.70875E+05	285.25	-99947.	4.0158
1350.0	43.223	2.73025E+05	286.87	-1.14250E+05	4.4205
1400.0	43.654	2.75197E+05	288.45	-1.28633E+05	4.7992
1450.0	44.058	2.77390E+05	289.99	-1.43095E+05	5.1547
1500.0	44.435	2.79603E+05	291.49	-1.57632E+05	5.4891
1550.0	44.781	2.81833E+05	292.95	-1.72243E+05	5.8044
1600.0	45.097	2.84080E+05	294.38	-1.86926E+05	6.1024
1650.0	45.381	2.86342E+05	295.77	-2.01680E+05	6.3845
1700.0	45.632	2.88618E+05	297.13	-2.16503E+05	6.6522
1750.0	45.850	2.90905E+05	298.46	-2.31393E+05	6.9065
1800.0	46.034	2.93202E+05	299.75	-2.46348E+05	7.1487
1850.0	46.183	2.95508E+05	301.01	-2.61367E+05	7.3795
1900.0	46.298	2.97820E+05	302.25	-2.76449E+05	7.5999
1950.0	46.378	3.00137E+05	303.45	-2.91591E+05	7.8107
2000.0	46.438	3.02457E+05	304.63	-3.06793E+05	8.0124
2050.0	46.478	3.04780E+05	305.77	-3.22053E+05	8.2058
2100.0	46.503	3.07105E+05	306.89	-3.37370E+05	8.3914
2150.0	46.513	3.09430E+05	307.99	-3.52742E+05	8.5697
2200.0	46.510	3.11756E+05	309.06	-3.68168E+05	8.7412
2250.0	46.495	3.14081E+05	310.10	-3.83648E+05	8.9063
2300.0	46.471	3.16405E+05	311.12	-3.99178E+05	9.0654
2350.0	46.437	3.18728E+05	312.12	-4.14759E+05	9.2188
2400.0	46.396	3.21049E+05	313.10	-4.30390E+05	9.3670
2450.0	46.348	3.23368E+05	314.06	-4.46069E+05	9.5101
2500.0	46.294	3.25684E+05	314.99	-4.61795E+05	9.6484
2550.0	46.235	3.27997E+05	315.91	-4.77568E+05	9.7823
2600.0	46.171	3.30307E+05	316.80	-4.93386E+05	9.9120
2650.0	46.103	3.32614E+05	317.68	-5.09248E+05	10.038
2700.0	46.032	3.34917E+05	318.54	-5.25154E+05	10.159
2750.0	45.959	3.37217E+05	319.39	-5.41102E+05	10.278
2800.0	45.883	3.39513E+05	320.22	-5.57093E+05	10.392
2850.0	45.805	3.41805E+05	321.03	-5.73124E+05	10.504
2900.0	45.725	3.44094E+05	321.82	-5.89195E+05	10.612
2950.0	45.645	3.46378E+05	322.60	-6.05306E+05	10.718
3000.0	45.563	3.48658E+05	323.37	-6.21455E+05	10.820

Als2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.527	2.48556E+05	294.46	1.60764E+05	-28.164
300.00	56.589	2.48661E+05	294.81	1.60219E+05	-27.896
350.00	57.922	2.51526E+05	303.64	1.45253E+05	-21.677
400.00	58.810	2.54446E+05	311.43	1.29872E+05	-16.959
450.00	59.438	2.57403E+05	318.40	1.14124E+05	-13.247
500.00	59.903	2.60387E+05	324.69	98044.	-10.242
550.00	60.261	2.63391E+05	330.41	81664.	-7.7556
600.00	60.545	2.66412E+05	335.67	65011.	-5.6595
650.00	60.776	2.69445E+05	340.52	48104.	-3.8656
700.00	60.967	2.72488E+05	345.04	30964.	-2.3105
750.00	61.129	2.75541E+05	349.25	13606.	-0.94756
800.00	61.268	2.78601E+05	353.20	-3956.5	0.25833
850.00	61.387	2.81667E+05	356.91	-21710.	1.3341
900.00	61.492	2.84739E+05	360.43	-39645.	2.3009
950.00	61.583	2.87816E+05	363.75	-57750.	3.1752
1000.0	61.664	2.90898E+05	366.91	-76017.	3.9706
1050.0	61.735	2.93983E+05	369.93	-94439.	4.6980
1100.0	61.799	2.97071E+05	372.80	-1.13007E+05	5.3661
1150.0	61.854	3.00162E+05	375.55	-1.31716E+05	5.9826
1200.0	61.904	3.03256E+05	378.18	-1.50560E+05	6.5535
1250.0	61.947	3.06353E+05	380.71	-1.69533E+05	7.0842
1300.0	61.984	3.09451E+05	383.14	-1.88629E+05	7.5790
1350.0	62.017	3.12551E+05	385.48	-2.07845E+05	8.0418
1400.0	62.044	3.15652E+05	387.73	-2.27176E+05	8.4758
1450.0	62.067	3.18755E+05	389.91	-2.46617E+05	8.8839
1500.0	62.085	3.21859E+05	392.02	-2.66166E+05	9.2685
1550.0	62.100	3.24964E+05	394.05	-2.85818E+05	9.6318
1600.0	62.110	3.28069E+05	396.02	-3.05570E+05	9.9756
1650.0	62.116	3.31175E+05	397.94	-3.25419E+05	10.302
1700.0	62.119	3.34281E+05	399.79	-3.45363E+05	10.611
1750.0	62.132	3.37387E+05	401.59	-3.65397E+05	10.906
1800.0	62.145	3.40494E+05	403.34	-3.85521E+05	11.187
1850.0	62.156	3.43601E+05	405.04	-4.05731E+05	11.455
1900.0	62.166	3.46709E+05	406.70	-4.26025E+05	11.712
1950.0	62.176	3.49818E+05	408.32	-4.46400E+05	11.957
2000.0	62.185	3.52927E+05	409.89	-4.66856E+05	12.193
2050.0	62.193	3.56036E+05	411.43	-4.87389E+05	12.419
2100.0	62.201	3.59146E+05	412.93	-5.07998E+05	12.635
2150.0	62.208	3.62256E+05	414.39	-5.28681E+05	12.844
2200.0	62.215	3.65367E+05	415.82	-5.49436E+05	13.045
2250.0	62.221	3.68478E+05	417.22	-5.70262E+05	13.239
2300.0	62.227	3.71589E+05	418.59	-5.91157E+05	13.425
2350.0	62.232	3.74701E+05	419.92	-6.12120E+05	13.606
2400.0	62.237	3.77812E+05	421.23	-6.33149E+05	13.780
2450.0	62.242	3.80924E+05	422.52	-6.54243E+05	13.948
2500.0	62.247	3.84037E+05	423.77	-6.75401E+05	14.111
2550.0	62.251	3.87149E+05	425.01	-6.96620E+05	14.269
2600.0	62.255	3.90262E+05	426.22	-7.17901E+05	14.422
2650.0	62.259	3.93375E+05	427.40	-7.39241E+05	14.571
2700.0	62.263	3.96488E+05	428.57	-7.60641E+05	14.715
2750.0	62.266	3.99601E+05	429.71	-7.82098E+05	14.855
2800.0	62.269	4.02714E+05	430.83	-8.03611E+05	14.991
2850.0	62.272	4.05828E+05	431.93	-8.25180E+05	15.123
2900.0	62.275	4.08941E+05	433.02	-8.46804E+05	15.252
2950.0	62.278	4.12055E+05	434.08	-8.68482E+05	15.378
3000.0	62.281	4.15169E+05	435.13	-8.90212E+05	15.500

A12S<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.348	2.20689E+05	271.33	1.39791E+05	-24.490
300.00	56.412	2.20793E+05	271.68	1.39289E+05	-24.252
350.00	57.792	2.23651E+05	280.49	1.25480E+05	-18.726
400.00	58.710	2.26565E+05	288.27	1.11257E+05	-14.528
450.00	59.359	2.29518E+05	295.22	96666.	-11.220
500.00	59.839	2.32498E+05	301.50	81746.	-8.5397
550.00	60.208	2.35500E+05	307.23	66525.	-6.3179
600.00	60.500	2.38518E+05	312.48	51031.	-4.4425
650.00	60.738	2.41549E+05	317.33	35284.	-2.8354
700.00	60.935	2.44591E+05	321.84	19304.	-1.4404
750.00	61.101	2.47642E+05	326.05	3105.3	-0.21627
800.00	61.242	2.50700E+05	330.00	-13297.	0.86817
850.00	61.365	2.53766E+05	333.71	-29890.	1.8368
900.00	61.472	2.56837E+05	337.22	-46665.	2.7083
950.00	61.565	2.59913E+05	340.55	-63610.	3.4974
1000.0	61.648	2.62993E+05	343.71	-80717.	4.2161
1050.0	61.721	2.66077E+05	346.72	-97978.	4.8740
1100.0	61.785	2.69165E+05	349.59	-1.15387E+05	5.4791
1150.0	61.842	2.72256E+05	352.34	-1.32935E+05	6.0380
1200.0	61.892	2.75349E+05	354.97	-1.50619E+05	6.5561
1250.0	61.936	2.78445E+05	357.50	-1.68431E+05	7.0382
1300.0	61.975	2.81542E+05	359.93	-1.86367E+05	7.4881
1350.0	62.008	2.84642E+05	362.27	-2.04422E+05	7.9094
1400.0	62.036	2.87743E+05	364.53	-2.22593E+05	8.3048
1450.0	62.059	2.90846E+05	366.70	-2.40874E+05	8.6770
1500.0	62.078	2.93949E+05	368.81	-2.59262E+05	9.0281
1550.0	62.093	2.97053E+05	370.84	-2.77753E+05	9.3600
1600.0	62.103	3.00158E+05	372.81	-2.96345E+05	9.6744
1650.0	62.110	3.03264E+05	374.73	-3.15034E+05	9.9729
1700.0	62.113	3.06369E+05	376.58	-3.33817E+05	10.257
1750.0	62.127	3.09475E+05	378.38	-3.52691E+05	10.527
1800.0	62.139	3.12582E+05	380.13	-3.71654E+05	10.785
1850.0	62.151	3.15689E+05	381.83	-3.90703E+05	11.031
1900.0	62.162	3.18797E+05	383.49	-4.09836E+05	11.267
1950.0	62.171	3.21905E+05	385.11	-4.29052E+05	11.493
2000.0	62.181	3.25014E+05	386.68	-4.48346E+05	11.709
2050.0	62.189	3.28123E+05	388.22	-4.67719E+05	11.917
2100.0	62.197	3.31233E+05	389.71	-4.87167E+05	12.117
2150.0	62.204	3.34343E+05	391.18	-5.06690E+05	12.310
2200.0	62.211	3.37453E+05	392.61	-5.26285E+05	12.495
2250.0	62.218	3.40564E+05	394.01	-5.45950E+05	12.674
2300.0	62.224	3.43675E+05	395.37	-5.65685E+05	12.847
2350.0	62.229	3.46786E+05	396.71	-5.85487E+05	13.014
2400.0	62.234	3.49898E+05	398.02	-6.05355E+05	13.175
2450.0	62.239	3.53010E+05	399.31	-6.25289E+05	13.331
2500.0	62.244	3.56122E+05	400.56	-6.45286E+05	13.482
2550.0	62.248	3.59234E+05	401.80	-6.65345E+05	13.629
2600.0	62.253	3.62347E+05	403.00	-6.85465E+05	13.771
2650.0	62.257	3.65460E+05	404.19	-7.05645E+05	13.909
2700.0	62.260	3.68572E+05	405.35	-7.25883E+05	14.043
2750.0	62.264	3.71686E+05	406.50	-7.46180E+05	14.173
2800.0	62.267	3.74799E+05	407.62	-7.66533E+05	14.299
2850.0	62.270	3.77912E+05	408.72	-7.86941E+05	14.423
2900.0	62.273	3.81026E+05	409.80	-8.07404E+05	14.543
2950.0	62.276	3.84140E+05	410.87	-8.27921E+05	14.659
3000.0	62.279	3.87253E+05	411.91	-8.48491E+05	14.773

Al2S2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.903	1.35307E+05	320.29	39812.	-6.9747
300.00	76.011	1.35448E+05	320.76	39219.	-6.8285
350.00	78.373	1.39311E+05	332.67	22877.	-3.4141
400.00	80.002	1.43273E+05	343.25	5974.2	-0.78013
450.00	81.197	1.47304E+05	352.74	-11430.	1.3267
500.00	82.116	1.51388E+05	361.35	-29285.	3.0593
550.00	82.848	1.55513E+05	369.21	-47552.	4.5160
600.00	83.446	1.59670E+05	376.44	-66195.	5.7627
650.00	83.946	1.63856E+05	383.14	-85187.	6.8456
700.00	84.369	1.68064E+05	389.38	-1.04502E+05	7.7978
750.00	84.730	1.72291E+05	395.21	-1.24118E+05	8.6442
800.00	85.039	1.76536E+05	400.69	-1.44017E+05	9.4031
850.00	85.305	1.80795E+05	405.86	-1.64182E+05	10.089
900.00	85.533	1.85066E+05	410.74	-1.84598E+05	10.714
950.00	85.727	1.89347E+05	415.37	-2.05252E+05	11.285
1000.0	85.890	1.93638E+05	419.77	-2.26131E+05	11.812
1050.0	86.025	1.97936E+05	423.96	-2.47225E+05	12.298
1100.0	86.132	2.02240E+05	427.97	-2.68525E+05	12.751
1150.0	86.215	2.06549E+05	431.80	-2.90019E+05	13.173
1200.0	86.272	2.10861E+05	435.47	-3.11702E+05	13.568
1250.0	86.351	2.15177E+05	438.99	-3.33564E+05	13.939
1300.0	86.422	2.19496E+05	442.38	-3.55599E+05	14.288
1350.0	86.485	2.23819E+05	445.64	-3.77800E+05	14.618
1400.0	86.541	2.28144E+05	448.79	-4.00161E+05	14.930
1450.0	86.592	2.32473E+05	451.83	-4.22677E+05	15.226
1500.0	86.638	2.36804E+05	454.76	-4.45342E+05	15.508
1550.0	86.679	2.41136E+05	457.61	-4.68152E+05	15.776
1600.0	86.717	2.45471E+05	460.36	-4.91101E+05	16.032
1650.0	86.751	2.49808E+05	463.03	-5.14186E+05	16.277
1700.0	86.782	2.54146E+05	465.62	-5.37403E+05	16.512
1750.0	86.811	2.58486E+05	468.13	-5.60747E+05	16.737
1800.0	86.837	2.62827E+05	470.58	-5.84215E+05	16.953
1850.0	86.861	2.67170E+05	472.96	-6.07803E+05	17.161
1900.0	86.884	2.71514E+05	475.28	-6.31509E+05	17.361
1950.0	86.905	2.75858E+05	477.53	-6.55330E+05	17.554
2000.0	86.924	2.80204E+05	479.73	-6.79262E+05	17.740
2050.0	86.942	2.84551E+05	481.88	-7.03302E+05	17.920
2100.0	86.958	2.88898E+05	483.97	-7.27449E+05	18.094
2150.0	86.974	2.93246E+05	486.02	-7.51699E+05	18.262
2200.0	86.988	2.97596E+05	488.02	-7.76050E+05	18.425
2250.0	87.002	3.01945E+05	489.98	-8.00500E+05	18.583
2300.0	87.014	3.06296E+05	491.89	-8.25047E+05	18.737
2350.0	87.026	3.10647E+05	493.76	-8.49688E+05	18.886
2400.0	87.038	3.14998E+05	495.59	-8.74422E+05	19.031
2450.0	87.048	3.19350E+05	497.39	-8.99247E+05	19.172
2500.0	87.058	3.23703E+05	499.15	-9.24160E+05	19.309
2550.0	87.067	3.28056E+05	500.87	-9.49161E+05	19.442
2600.0	87.076	3.32410E+05	502.56	-9.74247E+05	19.572
2650.0	87.084	3.36764E+05	504.22	-9.99416E+05	19.699
2700.0	87.092	3.41118E+05	505.85	-1.02467E+06	19.823
2750.0	87.100	3.45473E+05	507.44	-1.05000E+06	19.944
2800.0	87.107	3.49828E+05	509.01	-1.07541E+06	20.062
2850.0	87.114	3.54184E+05	510.56	-1.10090E+06	20.177
2900.0	87.120	3.58540E+05	512.07	-1.12647E+06	20.289
2950.0	87.126	3.62896E+05	513.56	-1.15211E+06	20.399
3000.0	87.132	3.67252E+05	515.03	-1.17782E+06	20.507

A12S3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	105.06	-6.48500E+05	116.86	-6.83342E+05	119.72
300.00	105.45	-6.48305E+05	117.51	-6.83559E+05	119.02
350.00	114.00	-6.42804E+05	134.45	-6.89863E+05	102.95
400.00	119.91	-6.36948E+05	150.08	-6.96982E+05	91.014
450.00	124.28	-6.30839E+05	164.47	-7.04851E+05	81.815
500.00	127.69	-6.24537E+05	177.75	-7.13411E+05	74.528
550.00	130.48	-6.18080E+05	190.05	-7.22609E+05	68.626
600.00	132.84	-6.11496E+05	201.51	-7.32402E+05	63.760
650.00	134.90	-6.04801E+05	212.23	-7.42748E+05	59.686
700.00	136.75	-5.98009E+05	222.29	-7.53614E+05	56.234
750.00	138.44	-5.91129E+05	231.79	-7.64968E+05	53.276
800.00	140.00	-5.84167E+05	240.77	-7.76784E+05	50.717
850.00	141.47	-5.77130E+05	249.30	-7.89037E+05	48.487
900.00	142.86	-5.70022E+05	257.43	-8.01707E+05	46.529
950.00	144.20	-5.62845E+05	265.19	-8.14774E+05	44.798
1000.0	145.49	-5.55602E+05	272.62	-8.28220E+05	43.261
1050.0	146.74	-5.48296E+05	279.75	-8.42031E+05	41.888
1100.0	147.96	-5.40929E+05	286.60	-8.56190E+05	40.656
1150.0	149.15	-5.33501E+05	293.21	-8.70687E+05	39.547
1200.0	150.32	-5.26014E+05	299.58	-8.85507E+05	38.544
1250.0	151.48	-5.18469E+05	305.74	-9.00641E+05	37.635
1300.0	147.62	-5.11006E+05	311.59	-9.16076E+05	36.807
1350.0	149.45	-5.03579E+05	317.20	-9.31796E+05	36.052
1373.0	150.29	-5.00133E+05	319.73	-9.39121E+05	35.727
1373.0	160.00	-4.34132E+05	367.80	-9.39121E+05	35.727
1400.0	160.00	-4.29812E+05	370.92	-9.49094E+05	35.410
1450.0	160.00	-4.21812E+05	376.53	-9.67781E+05	34.862
1500.0	160.00	-4.13812E+05	381.95	-9.86744E+05	34.361
1550.0	160.00	-4.05812E+05	387.20	-1.00597E+06	33.900
1600.0	160.00	-3.97812E+05	392.28	-1.02546E+06	33.477
1650.0	160.00	-3.89812E+05	397.20	-1.04520E+06	33.087
1700.0	160.00	-3.81812E+05	401.98	-1.06518E+06	32.728
1750.0	160.00	-3.73812E+05	406.62	-1.08539E+06	32.396
1800.0	160.00	-3.65812E+05	411.13	-1.10584E+06	32.090
1850.0	160.00	-3.57812E+05	415.51	-1.12651E+06	31.806
1900.0	160.00	-3.49812E+05	419.78	-1.14739E+06	31.543
1950.0	160.00	-3.41812E+05	423.93	-1.16848E+06	31.299
2000.0	160.00	-3.33812E+05	427.98	-1.18978E+06	31.073
2050.0	160.00	-3.25812E+05	431.93	-1.21128E+06	30.863
2100.0	160.00	-3.17812E+05	435.79	-1.23297E+06	30.668
2150.0	160.00	-3.09812E+05	439.55	-1.25486E+06	30.486
2200.0	160.00	-3.01812E+05	443.23	-1.27693E+06	30.317
2250.0	160.00	-2.93812E+05	446.83	-1.29918E+06	30.160
2300.0	160.00	-2.85812E+05	450.35	-1.32161E+06	30.014
2350.0	160.00	-2.77812E+05	453.79	-1.34421E+06	29.878
2400.0	160.00	-2.69812E+05	457.15	-1.36698E+06	29.751
2450.0	160.00	-2.61812E+05	460.45	-1.38992E+06	29.633
2500.0	160.00	-2.53812E+05	463.69	-1.41303E+06	29.523
2550.0	160.00	-2.45812E+05	466.85	-1.43629E+06	29.421
2600.0	160.00	-2.37812E+05	469.96	-1.45971E+06	29.325
2650.0	160.00	-2.29812E+05	473.01	-1.48329E+06	29.237
2700.0	160.00	-2.21812E+05	476.00	-1.50701E+06	29.154
2750.0	160.00	-2.13812E+05	478.94	-1.53089E+06	29.078
2800.0	160.00	-2.05812E+05	481.82	-1.55491E+06	29.006
2850.0	160.00	-1.97812E+05	484.65	-1.57907E+06	28.940
2900.0	160.00	-1.89812E+05	487.43	-1.60337E+06	28.879
2950.0	160.00	-1.81812E+05	490.17	-1.62781E+06	28.822
3000.0	160.00	-1.73812E+05	492.86	-1.65239E+06	28.770

Alse<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.669	2.30873E+05	242.87	1.58463E+05	-27.761
300.00	34.699	2.30937E+05	243.08	1.58013E+05	-27.512
350.00	35.343	2.32689E+05	248.48	1.45721E+05	-21.747
400.00	35.771	2.34468E+05	253.23	1.33176E+05	-17.391
450.00	36.072	2.36264E+05	257.46	1.20407E+05	-13.976
500.00	36.294	2.38074E+05	261.27	1.07437E+05	-11.224
550.00	36.464	2.39893E+05	264.74	94285.	-8.9543
600.00	36.598	2.41720E+05	267.92	80968.	-7.0487
650.00	36.706	2.43552E+05	270.85	67497.	-5.4240
700.00	36.795	2.45390E+05	273.58	53886.	-4.0209
750.00	36.870	2.47232E+05	276.12	40143.	-2.7957
800.00	36.933	2.49077E+05	278.50	26277.	-1.7156
850.00	36.987	2.50925E+05	280.74	12295.	-0.75555
900.00	37.034	2.52775E+05	282.86	-1795.3	0.10420
950.00	37.075	2.54628E+05	284.86	-15989.	0.87910
1000.0	37.111	2.56483E+05	286.76	-30280.	1.5816
1050.0	37.142	2.58339E+05	288.57	-44663.	2.2218
1100.0	37.170	2.60197E+05	290.30	-59136.	2.8080
1150.0	37.194	2.62056E+05	291.96	-73692.	3.3471
1200.0	37.214	2.63916E+05	293.54	-88330.	3.8448
1250.0	37.232	2.65777E+05	295.06	-1.03045E+05	4.3059
1300.0	37.248	2.67640E+05	296.52	-1.17835E+05	4.7345
1350.0	37.260	2.69502E+05	297.92	-1.32696E+05	5.1342
1400.0	37.271	2.71366E+05	299.28	-1.47626E+05	5.5079
1450.0	37.279	2.73229E+05	300.59	-1.62623E+05	5.8582
1500.0	37.286	2.75093E+05	301.85	-1.77685E+05	6.1874
1550.0	37.290	2.76958E+05	303.07	-1.92808E+05	6.4974
1600.0	37.293	2.78822E+05	304.26	-2.07991E+05	6.7900
1650.0	37.294	2.80687E+05	305.41	-2.23233E+05	7.0668
1700.0	37.293	2.82552E+05	306.52	-2.38531E+05	7.3290
1750.0	37.297	2.84416E+05	307.60	-2.53885E+05	7.5778
1800.0	37.301	2.86281E+05	308.65	-2.69291E+05	7.8144
1850.0	37.305	2.88147E+05	309.67	-2.84749E+05	8.0397
1900.0	37.309	2.90012E+05	310.67	-3.00258E+05	8.2545
1950.0	37.313	2.91877E+05	311.64	-3.15816E+05	8.4595
2000.0	37.317	2.93743E+05	312.58	-3.31421E+05	8.6556
2050.0	37.322	2.95609E+05	313.50	-3.47073E+05	8.8433
2100.0	37.326	2.97475E+05	314.40	-3.62771E+05	9.0232
2150.0	37.330	2.99342E+05	315.28	-3.78513E+05	9.1958
2200.0	37.334	3.01208E+05	316.14	-3.94299E+05	9.3616
2250.0	37.338	3.03075E+05	316.98	-4.10127E+05	9.5210
2300.0	37.342	3.04942E+05	317.80	-4.25997E+05	9.6744
2350.0	37.346	3.06809E+05	318.60	-4.41907E+05	9.8222
2400.0	37.350	3.08677E+05	319.39	-4.57857E+05	9.9647
2450.0	37.355	3.10544E+05	320.16	-4.73845E+05	10.102
2500.0	37.359	3.12412E+05	320.91	-4.89872E+05	10.235
2550.0	37.363	3.14280E+05	321.65	-5.05936E+05	10.363
2600.0	37.367	3.16149E+05	322.38	-5.22037E+05	10.488
2650.0	37.371	3.18017E+05	323.09	-5.38174E+05	10.608
2700.0	37.375	3.19886E+05	323.79	-5.54346E+05	10.724
2750.0	37.379	3.21755E+05	324.48	-5.70553E+05	10.837
2800.0	37.383	3.23624E+05	325.15	-5.86794E+05	10.946
2850.0	37.388	3.25493E+05	325.81	-6.03068E+05	11.053
2900.0	37.392	3.27362E+05	326.46	-6.19374E+05	11.156
2950.0	37.396	3.29232E+05	327.10	-6.35713E+05	11.256
3000.0	37.400	3.31102E+05	327.73	-6.52084E+05	11.354

Al2Se<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.191	2.30204E+05	289.43	1.43909E+05	-25.212
300.00	52.254	2.30300E+05	289.76	1.43374E+05	-24.963
350.00	53.628	2.32950E+05	297.92	1.28677E+05	-19.204
400.00	54.556	2.35656E+05	305.15	1.13597E+05	-14.834
450.00	55.223	2.38401E+05	311.61	98175.	-11.396
500.00	55.723	2.41175E+05	317.46	82446.	-8.6129
550.00	56.111	2.43972E+05	322.79	66438.	-6.3096
600.00	56.421	2.46785E+05	327.68	50174.	-4.3680
650.00	56.673	2.49613E+05	332.21	33676.	-2.7061
700.00	56.880	2.52452E+05	336.42	16959.	-1.2654
750.00	57.052	2.55300E+05	340.35	38.272	-2.6E-03
800.00	57.196	2.58156E+05	344.04	-1.7072.	1.1147
850.00	57.315	2.61019E+05	347.51	-34362.	2.1116
900.00	57.413	2.63888E+05	350.79	-51820.	3.0075
950.00	57.493	2.66760E+05	353.89	-69437.	3.8178
1000.0	57.556	2.69637E+05	356.84	-87206.	4.5551
1050.0	57.604	2.72516E+05	359.65	-1.05119E+05	5.2293
1100.0	57.638	2.75397E+05	362.33	-1.23170E+05	5.8487
1150.0	57.689	2.78280E+05	364.90	-1.41351E+05	6.4202
1200.0	57.733	2.81166E+05	367.35	-1.59657E+05	6.9495
1250.0	57.771	2.84053E+05	369.71	-1.78084E+05	7.4416
1300.0	57.805	2.86943E+05	371.98	-1.96627E+05	7.9004
1350.0	57.835	2.89834E+05	374.16	-2.15281E+05	8.3295
1400.0	57.862	2.92726E+05	376.26	-2.34041E+05	8.7320
1450.0	57.885	2.95620E+05	378.29	-2.52906E+05	9.1104
1500.0	57.907	2.98515E+05	380.26	-2.71870E+05	9.4671
1550.0	57.926	3.01410E+05	382.16	-2.90930E+05	9.8040
1600.0	57.943	3.04307E+05	383.99	-3.10084E+05	10.123
1650.0	57.958	3.07205E+05	385.78	-3.29329E+05	10.425
1700.0	57.972	3.10103E+05	387.51	-3.48661E+05	10.713
1750.0	57.985	3.13002E+05	389.19	-3.68079E+05	10.986
1800.0	57.996	3.15901E+05	390.82	-3.87579E+05	11.247
1850.0	58.007	3.18801E+05	392.41	-4.07160E+05	11.496
1900.0	58.017	3.21702E+05	393.96	-4.26820E+05	11.734
1950.0	58.026	3.24603E+05	395.47	-4.46555E+05	11.962
2000.0	58.034	3.27505E+05	396.94	-4.66366E+05	12.180
2050.0	58.042	3.30407E+05	398.37	-4.86248E+05	12.389
2100.0	58.049	3.33309E+05	399.77	-5.06202E+05	12.591
2150.0	58.055	3.36211E+05	401.13	-5.26225E+05	12.784
2200.0	58.062	3.39114E+05	402.47	-5.46315E+05	12.971
2250.0	58.067	3.42018E+05	403.77	-5.66471E+05	13.151
2300.0	58.073	3.44921E+05	405.05	-5.86692E+05	13.324
2350.0	58.078	3.47825E+05	406.30	-6.06975E+05	13.491
2400.0	58.083	3.50729E+05	407.52	-6.27321E+05	13.653
2450.0	58.088	3.53633E+05	408.72	-6.47727E+05	13.809
2500.0	58.092	3.56538E+05	409.89	-6.68192E+05	13.961
2550.0	58.096	3.59442E+05	411.04	-6.88716E+05	14.107
2600.0	58.100	3.62347E+05	412.17	-7.09296E+05	14.250
2650.0	58.104	3.65252E+05	413.28	-7.29932E+05	14.387
2700.0	58.108	3.68158E+05	414.36	-7.50624E+05	14.521
2750.0	58.112	3.71063E+05	415.43	-7.71368E+05	14.651
2800.0	58.116	3.73969E+05	416.48	-7.92166E+05	14.778
2850.0	58.119	3.76875E+05	417.51	-8.13016E+05	14.901
2900.0	58.123	3.79781E+05	418.52	-8.33916E+05	15.020
2950.0	58.126	3.82687E+05	419.51	-8.54867E+05	15.136
3000.0	58.129	3.85593E+05	420.49	-8.75867E+05	15.250

Al2Se2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.228	90040.	311.11	-2716.5	0.47592
300.00	78.324	90185.	311.59	-3292.5	0.57327
350.00	80.410	94157.	323.83	-19185.	2.8631
400.00	81.822	98214.	334.67	-35652.	4.6556
450.00	82.835	1.02332E+05	344.37	-52632.	6.1093
500.00	83.595	1.06494E+05	353.13	-70073.	7.3203
550.00	84.185	1.10689E+05	361.13	-87933.	8.3510
600.00	84.654	1.14910E+05	368.48	-1.06176E+05	9.2432
650.00	85.034	1.19153E+05	375.27	-1.24771E+05	10.026
700.00	85.344	1.23412E+05	381.58	-1.43694E+05	10.722
750.00	85.599	1.27686E+05	387.48	-1.62923E+05	11.347
800.00	85.809	1.31972E+05	393.01	-1.82436E+05	11.912
850.00	85.980	1.36266E+05	398.22	-2.02218E+05	12.427
900.00	86.117	1.40569E+05	403.14	-2.22253E+05	12.899
950.00	86.225	1.44878E+05	407.79	-2.42527E+05	13.335
1000.0	86.306	1.49191E+05	412.22	-2.63029E+05	13.739
1050.0	86.400	1.53509E+05	416.43	-2.83746E+05	14.115
1100.0	86.481	1.57831E+05	420.45	-3.04669E+05	14.467
1150.0	86.552	1.62157E+05	424.30	-3.25788E+05	14.797
1200.0	86.614	1.66486E+05	427.99	-3.47096E+05	15.108
1250.0	86.668	1.70818E+05	431.52	-3.68584E+05	15.402
1300.0	86.716	1.75153E+05	434.92	-3.90246E+05	15.680
1350.0	86.759	1.79490E+05	438.20	-4.12075E+05	15.944
1400.0	86.797	1.83829E+05	441.35	-4.34064E+05	16.195
1450.0	86.832	1.88169E+05	444.40	-4.56208E+05	16.434
1500.0	86.863	1.92512E+05	447.34	-4.78502E+05	16.662
1550.0	86.890	1.96855E+05	450.19	-5.00941E+05	16.881
1600.0	86.915	2.01201E+05	452.95	-5.23519E+05	17.091
1650.0	86.938	2.05547E+05	455.62	-5.46234E+05	17.292
1700.0	86.959	2.09894E+05	458.22	-5.69081E+05	17.485
1750.0	86.978	2.14243E+05	460.74	-5.92055E+05	17.671
1800.0	86.996	2.18592E+05	463.19	-6.15154E+05	17.851
1850.0	87.012	2.22942E+05	465.58	-6.38373E+05	18.024
1900.0	87.026	2.27293E+05	467.90	-6.61710E+05	18.191
1950.0	87.040	2.31645E+05	470.16	-6.85162E+05	18.353
2000.0	87.053	2.35997E+05	472.36	-7.08725E+05	18.510
2050.0	87.064	2.40350E+05	474.51	-7.32397E+05	18.661
2100.0	87.075	2.44704E+05	476.61	-7.56175E+05	18.808
2150.0	87.085	2.49058E+05	478.66	-7.80057E+05	18.951
2200.0	87.095	2.53412E+05	480.66	-8.04040E+05	19.090
2250.0	87.104	2.57767E+05	482.62	-8.28122E+05	19.225
2300.0	87.112	2.62123E+05	484.53	-8.52301E+05	19.356
2350.0	87.120	2.66478E+05	486.41	-8.76575E+05	19.484
2400.0	87.127	2.70835E+05	488.24	-9.00941E+05	19.608
2450.0	87.134	2.75191E+05	490.04	-9.25398E+05	19.729
2500.0	87.141	2.79548E+05	491.80	-9.49944E+05	19.847
2550.0	87.147	2.83905E+05	493.52	-9.74577E+05	19.963
2600.0	87.153	2.88263E+05	495.21	-9.99296E+05	20.076
2650.0	87.158	2.92620E+05	496.88	-1.02410E+06	20.186
2700.0	87.164	2.96979E+05	498.50	-1.04898E+06	20.293
2750.0	87.169	3.01337E+05	500.10	-1.07395E+06	20.399
2800.0	87.174	3.05695E+05	501.67	-1.09899E+06	20.501
2850.0	87.178	3.10054E+05	503.22	-1.12412E+06	20.602
2900.0	87.183	3.14413E+05	504.73	-1.14931E+06	20.701
2950.0	87.187	3.18772E+05	506.22	-1.17459E+06	20.798
3000.0	87.191	3.23132E+05	507.69	-1.19994E+06	20.892

Al2Se3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	117.97	-5.66932E+05	154.81	-6.13088E+05	107.41
300.00	118.03	-5.66714E+05	155.54	-6.13375E+05	106.80
350.00	119.75	-5.60769E+05	173.86	-6.21621E+05	92.769
400.00	121.46	-5.54739E+05	189.96	-6.30724E+05	82.362
450.00	123.18	-5.48623E+05	204.37	-6.40589E+05	74.356
500.00	124.89	-5.42421E+05	217.43	-6.51139E+05	68.022
550.00	126.61	-5.36134E+05	229.42	-6.62314E+05	62.900
600.00	128.32	-5.29761E+05	240.51	-6.74066E+05	58.681
650.00	130.04	-5.23302E+05	250.85	-6.86353E+05	55.155
700.00	131.75	-5.16757E+05	260.55	-6.99140E+05	52.169
750.00	133.47	-5.10126E+05	269.70	-7.12398E+05	49.615
800.00	135.19	-5.03410E+05	278.36	-7.26102E+05	47.408
850.00	136.90	-4.96608E+05	286.61	-7.40228E+05	45.488
900.00	138.62	-4.89720E+05	294.49	-7.54757E+05	43.804
950.00	140.33	-4.82746E+05	302.03	-7.69671E+05	42.318
1000.0	142.05	-4.75687E+05	309.27	-7.84954E+05	41.001
1050.0	143.76	-4.68541E+05	316.24	-8.00593E+05	39.826
1100.0	145.48	-4.61310E+05	322.97	-8.16574E+05	38.775
1150.0	147.19	-4.53994E+05	329.47	-8.32886E+05	37.830
1200.0	148.91	-4.46591E+05	335.77	-8.49518E+05	36.978

AlTe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.384	2.69868E+05	251.02	1.95025E+05	-34.167
300.00	35.408	2.69933E+05	251.24	1.94561E+05	-33.875
350.00	35.913	2.71717E+05	256.74	1.81858E+05	-27.140
400.00	36.243	2.73522E+05	261.56	1.68898E+05	-22.055
450.00	36.471	2.75340E+05	265.84	1.55711E+05	-18.074
500.00	36.636	2.77168E+05	269.69	1.42321E+05	-14.868
550.00	36.759	2.79003E+05	273.19	1.28747E+05	-12.227
600.00	36.854	2.80843E+05	276.40	1.15006E+05	-10.012
650.00	36.929	2.82688E+05	279.35	1.01112E+05	-8.1252
700.00	36.989	2.84536E+05	282.09	87075.	-6.4974
750.00	37.039	2.86387E+05	284.64	72906.	-5.0775
800.00	37.080	2.88240E+05	287.03	58613.	-3.8270
850.00	37.115	2.90095E+05	289.28	44205.	-2.7164
900.00	37.145	2.91951E+05	291.40	29687.	-1.7230
950.00	37.170	2.93809E+05	293.41	15066.	-0.82839
1000.0	37.193	2.95668E+05	295.32	347.73	-1.8E-02
1050.0	37.213	2.97528E+05	297.14	-14464.	0.71953
1100.0	37.230	2.99389E+05	298.87	-29364.	1.3944
1150.0	37.246	3.01251E+05	300.52	-44349.	2.0144
1200.0	37.260	3.03114E+05	302.11	-59416.	2.5862
1250.0	37.272	3.04977E+05	303.63	-74559.	3.1156
1300.0	37.283	3.06841E+05	305.09	-89777.	3.6072
1350.0	37.294	3.08706E+05	306.50	-1.05067E+05	4.0652
1400.0	37.303	3.10571E+05	307.86	-1.20426E+05	4.4931
1450.0	37.312	3.12436E+05	309.16	-1.35852E+05	4.8938
1500.0	37.320	3.14302E+05	310.43	-1.51342E+05	5.2701
1550.0	37.327	3.16168E+05	311.65	-1.66894E+05	5.6242
1600.0	37.333	3.18034E+05	312.84	-1.82507E+05	5.9581
1650.0	37.339	3.19901E+05	313.99	-1.98178E+05	6.2736
1700.0	37.345	3.21768E+05	315.10	-2.13905E+05	6.5723
1750.0	37.350	3.23636E+05	316.18	-2.29687E+05	6.8556
1800.0	37.355	3.25503E+05	317.24	-2.45523E+05	7.1247
1850.0	37.359	3.27371E+05	318.26	-2.61410E+05	7.3807
1900.0	37.363	3.29239E+05	319.26	-2.77349E+05	7.6246
1950.0	37.366	3.31107E+05	320.23	-2.93336E+05	7.8574
2000.0	37.369	3.32976E+05	321.17	-3.09371E+05	8.0797
2050.0	37.372	3.34844E+05	322.10	-3.25453E+05	8.2924
2100.0	37.375	3.36713E+05	323.00	-3.41580E+05	8.4961
2150.0	37.377	3.38582E+05	323.88	-3.57752E+05	8.6914
2200.0	37.379	3.40451E+05	324.74	-3.73967E+05	8.8789
2250.0	37.381	3.42320E+05	325.58	-3.90225E+05	9.0590
2300.0	37.382	3.44189E+05	326.40	-4.06525E+05	9.2322
2350.0	37.384	3.46058E+05	327.20	-4.22865E+05	9.3990
2400.0	37.385	3.47927E+05	327.99	-4.39244E+05	9.5597
2450.0	37.385	3.49796E+05	328.76	-4.55663E+05	9.7146
2500.0	37.386	3.51666E+05	329.51	-4.72120E+05	9.8642
2550.0	37.386	3.53535E+05	330.25	-4.88614E+05	10.009
2600.0	37.386	3.55404E+05	330.98	-5.05145E+05	10.148
2650.0	37.386	3.57274E+05	331.69	-5.21712E+05	10.283
2700.0	37.386	3.59143E+05	332.39	-5.38314E+05	10.414
2750.0	37.385	3.61012E+05	333.08	-5.54951E+05	10.541
2800.0	37.384	3.62881E+05	333.75	-5.71622E+05	10.663
2850.0	37.383	3.64751E+05	334.41	-5.88326E+05	10.783
2900.0	37.382	3.66620E+05	335.06	-6.05063E+05	10.898
2950.0	37.381	3.68489E+05	335.70	-6.21832E+05	11.010
3000.0	37.379	3.70358E+05	336.33	-6.38633E+05	11.119

Al2Te<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.476	3.22335E+05	299.68	2.32985E+05	-40.817
300.00	53.528	3.22434E+05	300.01	2.32430E+05	-40.469
350.00	54.661	3.25141E+05	308.36	2.17216E+05	-32.417
400.00	55.412	3.27894E+05	315.71	2.01611E+05	-26.327
450.00	55.940	3.30679E+05	322.27	1.85658E+05	-21.550
500.00	56.329	3.33486E+05	328.18	1.69395E+05	-17.696
550.00	56.625	3.36310E+05	333.57	1.52849E+05	-14.516
600.00	56.857	3.39147E+05	338.50	1.36045E+05	-11.844
650.00	57.044	3.41995E+05	343.06	1.19005E+05	-9.5631
700.00	57.197	3.44851E+05	347.30	1.01745E+05	-7.5921
750.00	57.324	3.47714E+05	351.25	84280.	-5.8696
800.00	57.430	3.50583E+05	354.95	66624.	-4.3500
850.00	57.521	3.53457E+05	358.43	48789.	-2.9981
900.00	57.597	3.56335E+05	361.72	30784.	-1.7866
950.00	57.663	3.59217E+05	364.84	12619.	-0.69384
1000.0	57.719	3.62101E+05	367.80	-5697.3	0.29759
1050.0	57.767	3.64988E+05	370.62	-24158.	1.2018
1100.0	57.808	3.67878E+05	373.30	-42757.	2.0303
1150.0	57.842	3.70769E+05	375.87	-61487.	2.7927
1200.0	57.870	3.73662E+05	378.34	-80342.	3.4971
1250.0	57.892	3.76556E+05	380.70	-99319.	4.1502
1300.0	57.910	3.79451E+05	382.97	-1.18411E+05	4.7577
1350.0	57.922	3.82347E+05	385.16	-1.37614E+05	5.3245
1400.0	57.931	3.85243E+05	387.26	-1.56925E+05	5.8548
1450.0	57.946	3.88140E+05	389.30	-1.76339E+05	6.3523
1500.0	57.960	3.91038E+05	391.26	-1.95854E+05	6.8201
1550.0	57.974	3.93936E+05	393.16	-2.15464E+05	7.2609
1600.0	57.988	3.96835E+05	395.00	-2.35169E+05	7.6773
1650.0	58.000	3.99735E+05	396.79	-2.54964E+05	8.0713
1700.0	58.013	4.02635E+05	398.52	-2.74847E+05	8.4448
1750.0	58.024	4.05536E+05	400.20	-2.94815E+05	8.7995
1800.0	58.035	4.08438E+05	401.84	-3.14866E+05	9.1369
1850.0	58.046	4.11340E+05	403.43	-3.34998E+05	9.4584
1900.0	58.056	4.14242E+05	404.97	-3.55208E+05	9.7651
1950.0	58.065	4.17145E+05	406.48	-3.75494E+05	10.058
2000.0	58.074	4.20049E+05	407.95	-3.95855E+05	10.338
2050.0	58.082	4.22953E+05	409.39	-4.16289E+05	10.607
2100.0	58.090	4.25857E+05	410.79	-4.36793E+05	10.864
2150.0	58.097	4.28762E+05	412.15	-4.57367E+05	11.112
2200.0	58.104	4.31667E+05	413.49	-4.78008E+05	11.349
2250.0	58.110	4.34572E+05	414.79	-4.98715E+05	11.578
2300.0	58.115	4.37478E+05	416.07	-5.19487E+05	11.798
2350.0	58.120	4.40383E+05	417.32	-5.40322E+05	12.010
2400.0	58.124	4.43290E+05	418.55	-5.61219E+05	12.214
2450.0	58.128	4.46196E+05	419.74	-5.82176E+05	12.412
2500.0	58.131	4.49102E+05	420.92	-6.03193E+05	12.603
2550.0	58.133	4.52009E+05	422.07	-6.24267E+05	12.787
2600.0	58.135	4.54916E+05	423.20	-6.45399E+05	12.966
2650.0	58.137	4.57822E+05	424.31	-6.66587E+05	13.139
2700.0	58.138	4.60729E+05	425.39	-6.87829E+05	13.307
2750.0	58.138	4.63636E+05	426.46	-7.09126E+05	13.469
2800.0	58.138	4.66543E+05	427.51	-7.30475E+05	13.627
2850.0	58.137	4.69450E+05	428.54	-7.51876E+05	13.780
2900.0	58.136	4.72357E+05	429.55	-7.73328E+05	13.929
2950.0	58.134	4.75264E+05	430.54	-7.94830E+05	14.073
3000.0	58.131	4.78170E+05	431.52	-8.16382E+05	14.214

Am

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.499	0.00000E+00	55.396	-16516.	2.8935
300.00	25.515	47.188	55.554	-16619.	2.8935
350.00	26.001	1334.7	59.522	-19498.	2.9099
400.00	26.566	2648.6	63.030	-22564.	2.9464
450.00	27.184	3992.2	66.195	-25795.	2.9942
500.00	27.841	5367.6	69.092	-29179.	3.0482
550.00	28.529	6776.8	71.778	-32701.	3.1056
600.00	29.244	8221.0	74.291	-36353.	3.1648
650.00	29.982	9701.6	76.661	-40128.	3.2246
700.00	30.741	11220.	78.910	-44018.	3.2845
750.00	31.520	12776.	81.058	-48017.	3.3441
800.00	32.319	14372.	83.117	-52122.	3.4031
850.00	33.136	16008.	85.101	-56328.	3.4614
900.00	33.971	17686.	87.018	-60631.	3.5188
950.00	34.823	19406.	88.878	-65028.	3.5754
1000.0	35.693	21168.	90.686	-69518.	3.6311
1042.0	36.437	22683.	92.170	-73358.	3.6773
1042.0	33.656	23553.	93.005	-73358.	3.6773
1050.0	33.773	23823.	93.263	-74103.	3.6863
1100.0	34.515	25530.	94.851	-78806.	3.7421
1150.0	35.273	27275.	96.402	-83587.	3.7966
1200.0	36.048	29058.	97.919	-88446.	3.8498
1250.0	36.837	30880.	99.407	-93379.	3.9020
1300.0	37.640	32741.	100.87	-98386.	3.9531
1350.0	38.458	34644.	102.30	-1.03465E+05	4.0032
1350.0	39.748	40506.	106.65	-1.03465E+05	4.0032
1350.0	39.748	40506.	106.65	-1.03465E+05	4.0032
1400.0	39.748	42493.	108.09	-1.08834E+05	4.0605
1449.0	39.748	44441.	109.46	-1.14164E+05	4.1154
1449.0	41.840	58834.	119.39	-1.14164E+05	4.1154
1450.0	41.840	58876.	119.42	-1.14283E+05	4.1168
1500.0	41.840	60968.	120.84	-1.20290E+05	4.1888
1550.0	41.840	63060.	122.21	-1.26366E+05	4.2584
1600.0	41.840	65152.	123.54	-1.32510E+05	4.3259
1650.0	41.840	67244.	124.83	-1.38719E+05	4.3914
1700.0	41.840	69336.	126.08	-1.44992E+05	4.4550
1750.0	41.840	71428.	127.29	-1.51326E+05	4.5167
1800.0	41.840	73520.	128.47	-1.57720E+05	4.5768
1850.0	41.840	75612.	129.61	-1.64173E+05	4.6353
1900.0	41.840	77704.	130.73	-1.70681E+05	4.6922
1950.0	41.840	79796.	131.82	-1.77245E+05	4.7477
2000.0	41.840	81888.	132.88	-1.83862E+05	4.8019
2050.0	41.840	83980.	133.91	-1.90532E+05	4.8547
2100.0	41.840	86072.	134.92	-1.97253E+05	4.9063
2150.0	41.840	88164.	135.90	-2.04023E+05	4.9567
2200.0	41.840	90256.	136.86	-2.10842E+05	5.0059
2250.0	41.840	92348.	137.80	-2.17709E+05	5.0541
2300.0	41.840	94440.	138.72	-2.24622E+05	5.1012
2350.0	41.840	96532.	139.62	-2.31581E+05	5.1473
2400.0	41.840	98624.	140.50	-2.38584E+05	5.1925
2450.0	41.840	1.00716E+05	141.37	-2.45631E+05	5.2368
2500.0	41.840	1.02808E+05	142.21	-2.52721E+05	5.2802
2550.0	41.840	1.04900E+05	143.04	-2.59852E+05	5.3227
2600.0	41.840	1.06992E+05	143.85	-2.67024E+05	5.3644
2650.0	41.840	1.09084E+05	144.65	-2.74237E+05	5.4054
2700.0	41.840	1.11176E+05	145.43	-2.81489E+05	5.4456
2750.0	41.840	1.13268E+05	146.20	-2.88780E+05	5.4851
2800.0	41.840	1.15360E+05	146.95	-2.96109E+05	5.5238
2850.0	41.840	1.17452E+05	147.69	-3.03475E+05	5.5619
2900.0	41.840	1.19544E+05	148.42	-3.10878E+05	5.5994
2950.0	41.840	1.21636E+05	149.14	-3.18317E+05	5.6362
3000.0	41.840	1.23728E+05	149.84	-3.25791E+05	5.6724

Am<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.786	2.84000E+05	194.55	2.25995E+05	-39.592
300.00	20.787	2.84038E+05	194.68	2.25635E+05	-39.285
350.00	20.798	2.85078E+05	197.88	2.15818E+05	-32.208
400.00	20.801	2.86118E+05	200.66	2.05853E+05	-26.881
450.00	20.800	2.87158E+05	203.11	1.95758E+05	-22.722
500.00	20.797	2.88198E+05	205.30	1.85546E+05	-19.383
550.00	20.793	2.89238E+05	207.29	1.75231E+05	-16.642
600.00	20.789	2.90277E+05	209.09	1.64821E+05	-14.349
650.00	20.785	2.91317E+05	210.76	1.54324E+05	-12.401
700.00	20.781	2.92356E+05	212.30	1.43747E+05	-10.726
750.00	20.778	2.93395E+05	213.73	1.33096E+05	-9.2694
800.00	20.776	2.94434E+05	215.07	1.22375E+05	-7.9901
850.00	20.774	2.95472E+05	216.33	1.11590E+05	-6.8573
900.00	20.773	2.96511E+05	217.52	1.00743E+05	-5.8468
950.00	20.774	2.97550E+05	218.64	89839.	-4.9396
1000.0	20.775	2.98588E+05	219.71	78880.	-4.1201
1050.0	20.777	2.99627E+05	220.72	67869.	-3.3762
1100.0	20.781	3.00666E+05	221.69	56808.	-2.6975
1150.0	20.785	3.01705E+05	222.61	45701.	-2.0757
1200.0	20.790	3.02745E+05	223.50	34548.	-1.5038
1250.0	20.797	3.03784E+05	224.35	23351.	-0.97578
1300.0	20.805	3.04824E+05	225.16	12114.	-0.48671
1350.0	20.813	3.05865E+05	225.95	835.64	-3.2E-02
1400.0	20.823	3.06906E+05	226.70	-10481.	0.39103
1450.0	20.834	3.07947E+05	227.44	-21834.	0.78654
1500.0	20.846	3.08989E+05	228.14	-33224.	1.1569
1550.0	20.859	3.10032E+05	228.83	-44648.	1.5046
1600.0	20.873	3.11075E+05	229.49	-56106.	1.8316
1650.0	20.921	3.12120E+05	230.13	-67597.	2.1399
1700.0	20.966	3.13167E+05	230.76	-79119.	2.4310
1750.0	21.015	3.14217E+05	231.37	-90672.	2.7063
1800.0	21.072	3.15269E+05	231.96	-1.02255E+05	2.9673
1850.0	21.141	3.16324E+05	232.54	-1.13868E+05	3.2150
1900.0	21.227	3.17383E+05	233.10	-1.25509E+05	3.4504
1950.0	21.331	3.18447E+05	233.65	-1.37178E+05	3.6745
2000.0	21.458	3.19517E+05	234.20	-1.48874E+05	3.8881
2050.0	21.609	3.20593E+05	234.73	-1.60597E+05	4.0920
2100.0	21.787	3.21678E+05	235.25	-1.72346E+05	4.2868
2150.0	21.993	3.22772E+05	235.76	-1.84122E+05	4.4732
2200.0	22.230	3.23878E+05	236.27	-1.95923E+05	4.6517
2250.0	22.499	3.24996E+05	236.78	-2.07749E+05	4.8229
2300.0	22.801	3.26128E+05	237.27	-2.19600E+05	4.9872
2350.0	23.138	3.27277E+05	237.77	-2.31476E+05	5.1450
2400.0	23.511	3.28443E+05	238.26	-2.43377E+05	5.2968
2450.0	23.920	3.29628E+05	238.75	-2.55302E+05	5.4430
2500.0	24.366	3.30835E+05	239.23	-2.67252E+05	5.5838
2550.0	24.851	3.32066E+05	239.72	-2.79225E+05	5.7196
2600.0	25.375	3.33321E+05	240.21	-2.91224E+05	5.8506
2650.0	25.938	3.34604E+05	240.70	-3.03246E+05	5.9772
2700.0	26.542	3.35916E+05	241.19	-3.15294E+05	6.0996
2750.0	27.186	3.37259E+05	241.68	-3.27365E+05	6.2180
2800.0	27.872	3.38635E+05	242.18	-3.39462E+05	6.3326
2850.0	28.600	3.40047E+05	242.68	-3.51583E+05	6.4436
2900.0	29.370	3.41496E+05	243.18	-3.63730E+05	6.5513
2950.0	30.154	3.42983E+05	243.69	-3.75901E+05	6.6558
3000.0	30.987	3.44512E+05	244.20	-3.88099E+05	6.7572

AmO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	63.462	-9.32200E+05	66.998	-9.52175E+05	166.81
300.00	63.712	-9.32082E+05	67.391	-9.52300E+05	165.81
350.00	69.315	-9.28748E+05	77.659	-9.55929E+05	142.66
400.00	73.248	-9.25178E+05	87.187	-9.60053E+05	125.37
450.00	75.982	-9.21443E+05	95.983	-9.64636E+05	111.97
500.00	77.767	-9.17596E+05	104.09	-9.69640E+05	101.30
550.00	79.202	-9.13670E+05	111.57	-9.75034E+05	92.599
600.00	80.320	-9.09681E+05	118.51	-9.80788E+05	85.383
650.00	81.217	-9.05642E+05	124.98	-9.86877E+05	79.304
700.00	81.954	-9.01562E+05	131.02	-9.93279E+05	74.118
750.00	82.574	-8.97448E+05	136.70	-9.99973E+05	69.643
800.00	83.106	-8.93306E+05	142.05	-1.00694E+06	65.745
850.00	83.571	-8.89139E+05	147.10	-1.01417E+06	62.322
900.00	83.984	-8.84950E+05	151.89	-1.02165E+06	59.293
950.00	84.357	-8.80741E+05	156.44	-1.02936E+06	56.597
1000.0	84.699	-8.76515E+05	160.77	-1.03729E+06	54.181
1050.0	85.015	-8.72272E+05	164.91	-1.04543E+06	52.006
1100.0	85.312	-8.68013E+05	168.88	-1.05378E+06	50.038
1150.0	85.593	-8.63741E+05	172.68	-1.06232E+06	48.251
1200.0	85.861	-8.59454E+05	176.32	-1.07104E+06	46.620
1250.0	86.120	-8.55155E+05	179.83	-1.07995E+06	45.127
1300.0	86.371	-8.50843E+05	183.22	-1.08902E+06	43.756
1350.0	86.615	-8.46518E+05	186.48	-1.09827E+06	42.493
1400.0	86.855	-8.42181E+05	189.64	-1.10767E+06	41.327
1450.0	87.092	-8.37832E+05	192.69	-1.11723E+06	40.246
1500.0	87.326	-8.33472E+05	195.64	-1.12694E+06	39.242
1550.0	87.558	-8.29100E+05	198.51	-1.13679E+06	38.309
1600.0	87.790	-8.24716E+05	201.29	-1.14679E+06	37.438
1650.0	88.021	-8.20321E+05	204.00	-1.15692E+06	36.624
1700.0	88.252	-8.15914E+05	206.63	-1.16719E+06	35.862
1750.0	88.484	-8.11496E+05	209.19	-1.17758E+06	35.148
1800.0	88.717	-8.07066E+05	211.69	-1.18810E+06	34.477
1850.0	88.951	-8.02624E+05	214.12	-1.19875E+06	33.846
1900.0	89.187	-7.98170E+05	216.50	-1.20952E+06	33.251
1950.0	89.425	-7.93705E+05	218.82	-1.22040E+06	32.690
2000.0	89.665	-7.89228E+05	221.08	-1.23140E+06	32.160

Am2O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	105.78	-1.69040E+06	160.00	-1.73810E+06	304.50
300.00	106.21	-1.69020E+06	160.66	-1.73840E+06	302.67
350.00	115.94	-1.68464E+06	177.80	-1.74687E+06	260.70
400.00	123.30	-1.67865E+06	193.78	-1.75616E+06	229.33
450.00	129.29	-1.67233E+06	208.66	-1.76623E+06	205.01
500.00	134.41	-1.66573E+06	222.55	-1.77701E+06	185.64
550.00	138.98	-1.65890E+06	235.58	-1.78847E+06	169.85
600.00	143.16	-1.65184E+06	247.86	-1.80056E+06	156.75
650.00	147.08	-1.64459E+06	259.47	-1.81324E+06	145.71
700.00	150.80	-1.63714E+06	270.51	-1.82649E+06	136.29
750.00	154.37	-1.62951E+06	281.03	-1.84028E+06	128.17
800.00	157.84	-1.62170E+06	291.11	-1.85459E+06	121.09
850.00	161.22	-1.61373E+06	300.78	-1.86939E+06	114.88
900.00	164.53	-1.60558E+06	310.09	-1.88466E+06	109.38
950.00	167.79	-1.59727E+06	319.07	-1.90039E+06	104.49
1000.0	171.00	-1.58880E+06	327.76	-1.91656E+06	100.11
1050.0	169.06	-1.58031E+06	336.05	-1.93316E+06	96.167
1100.0	168.09	-1.57188E+06	343.89	-1.95016E+06	92.603
1150.0	167.73	-1.56349E+06	351.35	-1.96754E+06	89.366
1200.0	167.69	-1.55510E+06	358.49	-1.98529E+06	86.415
1250.0	167.72	-1.54672E+06	365.34	-2.00339E+06	83.715
1300.0	167.63	-1.53833E+06	371.91	-2.02182E+06	81.236
1350.0	167.69	-1.52995E+06	378.24	-2.04057E+06	78.953
1400.0	167.82	-1.52156E+06	384.34	-2.05964E+06	76.844
1450.0	167.99	-1.51317E+06	390.23	-2.07901E+06	74.892
1500.0	168.21	-1.50476E+06	395.93	-2.09866E+06	73.080
1550.0	168.48	-1.49635E+06	401.45	-2.11860E+06	71.394
1600.0	168.78	-1.48791E+06	406.81	-2.13880E+06	69.823
1650.0	169.11	-1.47947E+06	412.00	-2.15927E+06	68.355
1700.0	169.48	-1.47100E+06	417.06	-2.18000E+06	66.982
1750.0	169.87	-1.46252E+06	421.98	-2.20098E+06	65.694
1800.0	170.29	-1.45402E+06	426.77	-2.22220E+06	64.485
1850.0	170.74	-1.44549E+06	431.44	-2.24365E+06	63.348
1900.0	171.22	-1.43694E+06	436.00	-2.26534E+06	62.277
1950.0	171.71	-1.42837E+06	440.45	-2.28725E+06	61.267
2000.0	172.23	-1.41977E+06	444.81	-2.30938E+06	60.313

Ar<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.786	0.00000E+00	154.84	-46166.	8.0879
300.00	20.786	38.454	154.97	-46453.	8.0879
350.00	20.786	1077.8	158.17	-54283.	8.1012
400.00	20.786	2117.1	160.95	-62263.	8.1305
450.00	20.786	3156.4	163.40	-70373.	8.1685
500.00	20.786	4195.7	165.59	-78599.	8.2109
550.00	20.786	5235.0	167.57	-86928.	8.2556
600.00	20.786	6274.3	169.38	-95353.	8.3010
650.00	20.786	7313.6	171.04	-1.03864E+05	8.3464
700.00	20.786	8352.9	172.58	-1.12455E+05	8.3913
750.00	20.786	9392.2	174.02	-1.21120E+05	8.4354
800.00	20.786	10432.	175.36	-1.29855E+05	8.4785
850.00	20.786	11471.	176.62	-1.38655E+05	8.5205
900.00	20.786	12510.	177.81	-1.47516E+05	8.5614
950.00	20.786	13549.	178.93	-1.56434E+05	8.6011
1000.0	20.786	14589.	180.00	-1.65408E+05	8.6398
1050.0	20.786	15628.	181.01	-1.74433E+05	8.6774
1100.0	20.786	16667.	181.98	-1.83508E+05	8.7139
1150.0	20.786	17707.	182.90	-1.92630E+05	8.7493
1200.0	20.786	18746.	183.79	-2.01798E+05	8.7838
1250.0	20.786	19785.	184.63	-2.11008E+05	8.8173
1300.0	20.786	20825.	185.45	-2.20260E+05	8.8500
1350.0	20.786	21864.	186.23	-2.29553E+05	8.8817
1400.0	20.786	22903.	186.99	-2.38883E+05	8.9126
1450.0	20.786	23942.	187.72	-2.48251E+05	8.9428
1500.0	20.786	24982.	188.42	-2.57655E+05	8.9721
1550.0	20.786	26021.	189.11	-2.67093E+05	9.0008
1600.0	20.786	27060.	189.77	-2.76565E+05	9.0287
1650.0	20.786	28100.	190.41	-2.86070E+05	9.0560
1700.0	20.786	29139.	191.03	-2.95606E+05	9.0826
1750.0	20.786	30178.	191.63	-3.05172E+05	9.1087
1800.0	20.786	31218.	192.21	-3.14768E+05	9.1341
1850.0	20.786	32257.	192.78	-3.24393E+05	9.1590
1900.0	20.786	33296.	193.34	-3.34046E+05	9.1833
1950.0	20.786	34336.	193.88	-3.43727E+05	9.2072
2000.0	20.786	35375.	194.40	-3.53434E+05	9.2305
2050.0	20.786	36414.	194.92	-3.63167E+05	9.2534
2100.0	20.786	37453.	195.42	-3.72925E+05	9.2758
2150.0	20.786	38493.	195.91	-3.82709E+05	9.2977
2200.0	20.786	39532.	196.39	-3.92516E+05	9.3193
2250.0	20.786	40571.	196.85	-4.02347E+05	9.3404
2300.0	20.786	41611.	197.31	-4.12201E+05	9.3611
2350.0	20.786	42650.	197.76	-4.22078E+05	9.3815
2400.0	20.786	43689.	198.19	-4.31977E+05	9.4015
2450.0	20.786	44729.	198.62	-4.41897E+05	9.4211
2500.0	20.786	45768.	199.04	-4.51839E+05	9.4404
2550.0	20.786	46807.	199.45	-4.61801E+05	9.4594
2600.0	20.786	47847.	199.86	-4.71784E+05	9.4780
2650.0	20.786	48886.	200.25	-4.81787E+05	9.4963
2700.0	20.786	49925.	200.64	-4.91809E+05	9.5144
2750.0	20.786	50964.	201.02	-5.01851E+05	9.5321
2800.0	20.786	52004.	201.40	-5.11911E+05	9.5496
2850.0	20.786	53043.	201.77	-5.21991E+05	9.5668
2900.0	20.786	54082.	202.13	-5.32088E+05	9.5837
2950.0	20.786	55122.	202.48	-5.42203E+05	9.6004
3000.0	20.786	56161.	202.83	-5.52336E+05	9.6168

As

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.673	0.00000E+00	35.689	-10641.	1.8642
300.00	24.686	45.658	35.842	-10707.	1.8642
350.00	25.026	1288.6	39.673	-12597.	1.8799
400.00	25.342	2547.9	43.036	-14666.	1.9152
450.00	25.644	3822.6	46.038	-16895.	1.9610
500.00	25.938	5112.2	48.755	-19265.	2.0126
550.00	26.225	6416.3	51.241	-21766.	2.0671
600.00	26.509	7734.7	53.535	-24386.	2.1230
650.00	26.790	9067.2	55.668	-27117.	2.1791
700.00	27.070	10414.	57.664	-29951.	2.2349
750.00	27.347	11774.	59.541	-32881.	2.2900
800.00	27.624	13148.	61.314	-35903.	2.3442
850.00	27.900	14536.	62.997	-39011.	2.3973
900.00	28.175	15938.	64.600	-42202.	2.4493
950.00	28.449	17354.	66.131	-45470.	2.5001
1000.0	28.723	18783.	67.597	-48814.	2.5497
1050.0	28.997	20226.	69.005	-52229.	2.5982
1090.0	29.216	21391.	70.093	-55011.	2.6361
1090.0	29.216	45833.	92.518	-55011.	2.6362
1100.0	29.216	46126.	92.785	-55937.	2.6562
1150.0	29.216	47586.	94.083	-60609.	2.7529
1200.0	29.216	49047.	95.327	-65345.	2.8443

AsB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.928	-75312.	36.777	-86277.	15.115
300.00	30.068	-75257.	36.963	-86345.	15.034
350.00	33.231	-73670.	41.849	-88317.	13.180
400.00	35.574	-71947.	46.446	-90525.	11.821
450.00	37.442	-70120.	50.747	-92956.	10.790
500.00	39.013	-68208.	54.776	-95595.	9.9865
550.00	40.391	-66222.	58.560	-98430.	9.3478
600.00	41.637	-64171.	62.129	-1.01448E+05	8.8316
650.00	42.791	-62060.	65.507	-1.04640E+05	8.4087
700.00	43.878	-59893.	68.719	-1.07996E+05	8.0585
750.00	44.914	-57673.	71.782	-1.11509E+05	7.7660
800.00	45.913	-55402.	74.712	-1.15172E+05	7.5198
850.00	46.882	-53082.	77.525	-1.18978E+05	7.3113
900.00	47.829	-50714.	80.232	-1.22923E+05	7.1341
950.00	48.757	-48299.	82.842	-1.27000E+05	6.9828
1000.0	49.671	-45839.	85.367	-1.31205E+05	6.8533
1050.0	50.573	-43332.	87.812	-1.35535E+05	6.7423
1100.0	51.465	-40781.	90.185	-1.39985E+05	6.6472
1150.0	52.349	-38186.	92.493	-1.44553E+05	6.5656
1200.0	53.226	-35547.	94.739	-1.49234E+05	6.4958
1250.0	54.097	-32864.	96.930	-1.54026E+05	6.4362
1300.0	54.964	-30137.	99.068	-1.58926E+05	6.3856
1350.0	55.826	-27367.	101.16	-1.63932E+05	6.3427
1400.0	56.685	-24554.	103.20	-1.69041E+05	6.3068
1450.0	57.541	-21699.	105.21	-1.74251E+05	6.2771
1500.0	58.393	-18800.	107.17	-1.79561E+05	6.2527

As2Ba3O8

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	257.21	-3.42168E+06	309.62	-3.51399E+06	615.62
300.00	257.78	-3.42120E+06	311.21	-3.51456E+06	611.92
350.00	270.53	-3.40797E+06	351.96	-3.53116E+06	526.98
400.00	279.74	-3.39420E+06	388.72	-3.54969E+06	463.53
450.00	286.91	-3.38003E+06	422.10	-3.56997E+06	414.38
500.00	292.81	-3.36553E+06	452.64	-3.59185E+06	375.23
550.00	297.88	-3.35076E+06	480.79	-3.61520E+06	343.33
600.00	302.38	-3.33576E+06	506.91	-3.63990E+06	316.87
650.00	306.48	-3.32053E+06	531.27	-3.66586E+06	294.58
700.00	310.30	-3.30511E+06	554.13	-3.69300E+06	275.57
750.00	313.90	-3.28951E+06	575.66	-3.72125E+06	259.16
800.00	317.33	-3.27372E+06	596.03	-3.75055E+06	244.88
850.00	320.64	-3.25777E+06	615.37	-3.78084E+06	232.34
900.00	323.85	-3.24166E+06	633.78	-3.81207E+06	221.24
950.00	326.99	-3.22539E+06	651.38	-3.84420E+06	211.36
1000.0	330.06	-3.20896E+06	668.23	-3.87719E+06	202.52
1050.0	333.08	-3.19239E+06	684.41	-3.91101E+06	194.56
1100.0	336.06	-3.17566E+06	699.97	-3.94562E+06	187.36
1150.0	339.00	-3.15878E+06	714.97	-3.98100E+06	180.82
1200.0	341.91	-3.14176E+06	729.46	-4.01711E+06	174.86
1250.0	344.80	-3.12459E+06	743.48	-4.05394E+06	169.40
1300.0	347.67	-3.10728E+06	757.06	-4.09145E+06	164.39
1350.0	350.52	-3.08982E+06	770.23	-4.12964E+06	159.78
1400.0	353.35	-3.07223E+06	783.03	-4.16847E+06	155.52
1450.0	356.17	-3.05449E+06	795.48	-4.20794E+06	151.58
1500.0	358.98	-3.03661E+06	807.60	-4.24801E+06	147.93
1550.0	361.78	-3.01859E+06	819.42	-4.28869E+06	144.52
1600.0	364.57	-3.00043E+06	830.95	-4.32995E+06	141.35
1650.0	367.35	-2.98213E+06	842.21	-4.37178E+06	138.40
1700.0	370.13	-2.96370E+06	853.22	-4.41417E+06	135.63
1750.0	372.90	-2.94512E+06	863.99	-4.45710E+06	133.03
1800.0	375.66	-2.92641E+06	874.53	-4.50056E+06	130.60
1850.0	378.42	-2.90756E+06	884.86	-4.54455E+06	128.31
1900.0	381.17	-2.88857E+06	894.99	-4.58905E+06	126.16

As₂Be₃O₈

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	232.52	-2.73805E+06	207.27	-2.79985E+06	490.51
300.00	233.44	-2.73762E+06	208.72	-2.80023E+06	487.55
350.00	253.71	-2.72541E+06	246.33	-2.81162E+06	419.60
400.00	267.73	-2.71235E+06	281.17	-2.82482E+06	368.87
450.00	278.11	-2.69869E+06	313.34	-2.83969E+06	329.61
500.00	286.23	-2.68458E+06	343.07	-2.85611E+06	298.37
550.00	292.87	-2.67010E+06	370.67	-2.87397E+06	272.94
600.00	298.51	-2.65531E+06	396.41	-2.89315E+06	251.86
650.00	303.44	-2.64026E+06	420.50	-2.91358E+06	234.13
700.00	307.86	-2.62497E+06	443.15	-2.93518E+06	219.02
750.00	311.90	-2.60948E+06	464.53	-2.95787E+06	206.00
800.00	315.65	-2.59379E+06	484.78	-2.98161E+06	194.67
850.00	319.18	-2.57791E+06	504.02	-3.00633E+06	184.74
900.00	322.53	-2.56187E+06	522.36	-3.03200E+06	175.97
950.00	325.74	-2.54566E+06	539.89	-3.05856E+06	168.17
1000.0	328.84	-2.52930E+06	556.68	-3.08597E+06	161.19
1050.0	331.85	-2.51278E+06	572.79	-3.11421E+06	154.92
1100.0	334.79	-2.49612E+06	588.30	-3.14324E+06	149.26
1150.0	337.66	-2.47930E+06	603.24	-3.17303E+06	144.12
1200.0	340.48	-2.46235E+06	617.67	-3.20356E+06	139.44
1250.0	343.26	-2.44526E+06	631.63	-3.23479E+06	135.17
1300.0	346.00	-2.42803E+06	645.15	-3.26672E+06	131.25

AsBiO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	121.12	-7.95211E+05	168.07	-8.45321E+05	148.09
300.00	121.43	-7.94987E+05	168.82	-8.45633E+05	147.23
350.00	128.27	-7.88735E+05	188.08	-8.54564E+05	127.53
400.00	133.38	-7.82188E+05	205.56	-8.64412E+05	112.88
450.00	137.49	-7.75413E+05	221.51	-8.75094E+05	101.58
500.00	140.96	-7.68450E+05	236.18	-8.86542E+05	92.614
550.00	144.03	-7.61323E+05	249.77	-8.98694E+05	85.349
600.00	146.82	-7.54051E+05	262.42	-9.11503E+05	79.351
650.00	149.41	-7.46645E+05	274.27	-9.24923E+05	74.326
700.00	151.86	-7.39113E+05	285.44	-9.38919E+05	70.061
750.00	154.20	-7.31461E+05	295.99	-9.53457E+05	66.403

AsBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.508	-1.32089E+05	363.87	-2.40576E+05	42.147
300.00	78.566	-1.31944E+05	364.35	-2.41249E+05	42.004
350.00	79.812	-1.27982E+05	376.56	-2.59779E+05	38.769
400.00	80.620	-1.23970E+05	387.28	-2.78881E+05	36.417
450.00	81.175	-1.19924E+05	396.81	-2.98487E+05	34.647
500.00	81.571	-1.15855E+05	405.38	-3.18545E+05	33.277
550.00	81.865	-1.11768E+05	413.17	-3.39012E+05	32.196
600.00	82.088	-1.07669E+05	420.30	-3.59852E+05	31.327
650.00	82.261	-1.03561E+05	426.88	-3.81033E+05	30.619
700.00	82.399	-99444.	432.98	-4.02532E+05	30.037
750.00	82.510	-95321.	438.67	-4.24325E+05	29.552
800.00	82.601	-91193.	444.00	-4.46393E+05	29.146
850.00	82.677	-87061.	449.01	-4.68719E+05	28.803
900.00	82.740	-82926.	453.74	-4.91289E+05	28.513
950.00	82.793	-78787.	458.21	-5.14089E+05	28.266
1000.0	82.839	-74647.	462.46	-5.37107E+05	28.055
1050.0	82.878	-70504.	466.50	-5.60332E+05	27.874
1100.0	82.912	-66359.	470.36	-5.83754E+05	27.719

As2Ca3O8

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	249.79	-3.29871E+06	226.00	-3.36609E+06	589.71
300.00	250.46	-3.29824E+06	227.55	-3.36651E+06	586.15
350.00	265.30	-3.28533E+06	267.34	-3.37890E+06	504.26
400.00	275.88	-3.27178E+06	303.49	-3.39318E+06	443.09
450.00	283.97	-3.25778E+06	336.47	-3.40919E+06	395.72
500.00	290.52	-3.24341E+06	366.74	-3.42678E+06	357.98
550.00	296.07	-3.22874E+06	394.70	-3.44583E+06	327.25
600.00	300.92	-3.21382E+06	420.67	-3.46622E+06	301.75
650.00	305.30	-3.19866E+06	444.94	-3.48787E+06	280.28
700.00	309.32	-3.18329E+06	467.71	-3.51069E+06	261.96
750.00	313.08	-3.16773E+06	489.18	-3.53462E+06	246.17
800.00	316.64	-3.15199E+06	509.50	-3.55959E+06	232.41
850.00	320.06	-3.13607E+06	528.80	-3.58555E+06	220.34
900.00	323.35	-3.11998E+06	547.19	-3.61245E+06	209.66
950.00	326.55	-3.10374E+06	564.76	-3.64025E+06	200.15
1000.0	329.67	-3.08733E+06	581.58	-3.66892E+06	191.64
1050.0	332.73	-3.07077E+06	597.74	-3.69840E+06	183.98
1100.0	335.74	-3.05406E+06	613.29	-3.72868E+06	177.06
1150.0	338.70	-3.03720E+06	628.28	-3.75972E+06	170.77
1200.0	341.63	-3.02019E+06	642.76	-3.79150E+06	165.04
1250.0	344.53	-3.00304E+06	656.76	-3.82399E+06	159.79
1300.0	347.41	-2.98574E+06	670.33	-3.85717E+06	154.98
1350.0	350.26	-2.96829E+06	683.50	-3.89102E+06	150.55
1400.0	353.10	-2.95071E+06	696.29	-3.92551E+06	146.46
1450.0	355.92	-2.93298E+06	708.73	-3.96064E+06	142.67
1500.0	358.72	-2.91512E+06	720.84	-3.99638E+06	139.16
1550.0	361.51	-2.89711E+06	732.65	-4.03272E+06	135.90
1600.0	364.29	-2.87897E+06	744.17	-4.06964E+06	132.86
1650.0	367.07	-2.86068E+06	755.42	-4.10713E+06	130.02
1700.0	369.83	-2.84226E+06	766.42	-4.14518E+06	127.36

As2Cd3O8

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	258.82	-1.93435E+06	301.71	-2.02430E+06	354.64
300.00	259.45	-1.93387E+06	303.31	-2.02486E+06	352.55
350.00	273.65	-1.92052E+06	344.43	-2.04107E+06	304.61
400.00	284.15	-1.90656E+06	381.69	-2.05924E+06	268.90
450.00	292.50	-1.89214E+06	415.66	-2.07919E+06	241.34
500.00	299.51	-1.87734E+06	446.85	-2.10076E+06	219.46
550.00	305.65	-1.86220E+06	475.69	-2.12383E+06	201.70
600.00	311.19	-1.84678E+06	502.53	-2.14830E+06	187.02
650.00	316.32	-1.83109E+06	527.64	-2.17406E+06	174.70
700.00	321.14	-1.81515E+06	551.26	-2.20103E+06	164.24
750.00	325.73	-1.79898E+06	573.57	-2.22916E+06	155.25
800.00	330.16	-1.78258E+06	594.74	-2.25837E+06	147.45
850.00	334.45	-1.76597E+06	614.88	-2.28862E+06	140.64
900.00	338.64	-1.74914E+06	634.12	-2.31985E+06	134.64

AsCl3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.706	-2.71123E+05	326.34	-3.68420E+05	64.544
300.00	75.790	-2.70983E+05	326.80	-3.69024E+05	64.251
350.00	77.592	-2.67145E+05	338.63	-3.85667E+05	57.556
400.00	78.778	-2.63234E+05	349.08	-4.02865E+05	52.607
450.00	79.608	-2.59273E+05	358.41	-4.20556E+05	48.816
500.00	80.216	-2.55277E+05	366.83	-4.38690E+05	45.828
550.00	80.678	-2.51254E+05	374.49	-4.57226E+05	43.423
600.00	81.042	-2.47211E+05	381.53	-4.76129E+05	41.450
650.00	81.337	-2.43151E+05	388.03	-4.95370E+05	39.807
700.00	81.580	-2.39078E+05	394.07	-5.14924E+05	38.423
750.00	81.787	-2.34994E+05	399.70	-5.34770E+05	37.244
800.00	81.965	-2.30900E+05	404.99	-5.54889E+05	36.230
850.00	82.121	-2.26797E+05	409.96	-5.75264E+05	35.351
900.00	82.260	-2.22688E+05	414.66	-5.95880E+05	34.583
950.00	82.386	-2.18572E+05	419.11	-6.16725E+05	33.909
1000.0	82.500	-2.14449E+05	423.34	-6.37787E+05	33.314
1050.0	82.606	-2.10322E+05	427.37	-6.59056E+05	32.785
1100.0	82.704	-2.06189E+05	431.21	-6.80521E+05	32.314
1150.0	82.796	-2.02051E+05	434.89	-7.02174E+05	31.893
1200.0	82.882	-1.97910E+05	438.41	-7.24007E+05	31.514
1250.0	82.965	-1.93763E+05	441.80	-7.46013E+05	31.173
1300.0	83.044	-1.89613E+05	445.06	-7.68185E+05	30.865
1350.0	83.120	-1.85459E+05	448.19	-7.90517E+05	30.586
1400.0	83.193	-1.81301E+05	451.22	-8.13002E+05	30.333

As₂Co₃O₈

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	264.31	-1.86427E+06	337.02	-1.96475E+06	344.21
300.00	264.89	-1.86378E+06	338.66	-1.96537E+06	342.19
350.00	278.14	-1.85018E+06	380.54	-1.98337E+06	295.99
400.00	288.17	-1.83601E+06	418.36	-2.00336E+06	261.61
450.00	296.33	-1.82140E+06	452.79	-2.02515E+06	235.07
500.00	303.33	-1.80640E+06	484.38	-2.04859E+06	214.01
550.00	309.57	-1.79108E+06	513.59	-2.07355E+06	196.92
600.00	315.30	-1.77545E+06	540.77	-2.09992E+06	182.81
650.00	320.66	-1.75955E+06	566.22	-2.12760E+06	170.97
700.00	325.76	-1.74339E+06	590.18	-2.15651E+06	160.92
750.00	330.66	-1.72698E+06	612.82	-2.18659E+06	152.28
800.00	335.41	-1.71033E+06	634.31	-2.21778E+06	144.80

AsCrO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	109.05	-1.07240E+06	113.80	-1.10633E+06	193.82
300.00	109.32	-1.07220E+06	114.48	-1.10654E+06	192.66
350.00	115.64	-1.06657E+06	131.83	-1.11271E+06	166.06
400.00	120.50	-1.06066E+06	147.60	-1.11970E+06	146.21
450.00	124.49	-1.05453E+06	162.03	-1.12744E+06	130.87
500.00	127.96	-1.04822E+06	175.33	-1.13588E+06	118.66
550.00	131.09	-1.04174E+06	187.67	-1.14496E+06	108.74
600.00	133.97	-1.03511E+06	199.20	-1.15463E+06	100.52
650.00	136.70	-1.02835E+06	210.04	-1.16487E+06	93.608
700.00	139.30	-1.02144E+06	220.26	-1.17563E+06	87.724
750.00	141.81	-1.01442E+06	229.96	-1.18689E+06	82.660
800.00	144.25	-1.00727E+06	239.19	-1.19862E+06	78.260
850.00	146.64	-9.99993E+05	248.01	-1.21080E+06	74.405
900.00	148.99	-9.92602E+05	256.45	-1.22341E+06	71.003
950.00	151.31	-9.85094E+05	264.57	-1.23644E+06	67.982
1000.0	153.60	-9.77471E+05	272.39	-1.24986E+06	65.284
1050.0	155.87	-9.69734E+05	279.94	-1.26367E+06	62.863
1100.0	158.12	-9.61884E+05	287.24	-1.27785E+06	60.679
1150.0	160.36	-9.53922E+05	294.32	-1.29239E+06	58.701
1200.0	162.59	-9.45849E+05	301.19	-1.30728E+06	56.903

As₂Cu₃O₈

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	258.21	-1.52256E+06	298.61	-1.61159E+06	282.34
300.00	258.85	-1.52208E+06	300.21	-1.61214E+06	280.69
350.00	273.15	-1.50876E+06	341.25	-1.62820E+06	242.99
400.00	283.70	-1.49483E+06	378.44	-1.64620E+06	214.97
450.00	292.06	-1.48043E+06	412.36	-1.66599E+06	193.38
500.00	299.06	-1.46564E+06	443.50	-1.68739E+06	176.28
550.00	305.18	-1.45053E+06	472.30	-1.71030E+06	162.43
600.00	310.70	-1.43513E+06	499.09	-1.73459E+06	151.01
650.00	315.79	-1.41947E+06	524.16	-1.76018E+06	141.45
700.00	320.57	-1.40356E+06	547.74	-1.78698E+06	133.34
750.00	325.13	-1.38742E+06	570.02	-1.81493E+06	126.40
800.00	329.51	-1.37105E+06	591.14	-1.84396E+06	120.40
850.00	333.75	-1.35447E+06	611.25	-1.87403E+06	115.16
900.00	337.89	-1.33768E+06	630.44	-1.90507E+06	110.56

AsCs304

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	176.22	-1.66850E+06	283.59	-1.75305E+06	307.12
300.00	176.41	-1.66817E+06	284.68	-1.75357E+06	305.32
350.00	181.30	-1.65922E+06	312.25	-1.76851E+06	263.93
400.00	185.75	-1.65005E+06	336.75	-1.78475E+06	233.06
450.00	189.95	-1.64065E+06	358.88	-1.80215E+06	209.18
500.00	193.99	-1.63105E+06	379.10	-1.82060E+06	190.19
550.00	197.93	-1.62126E+06	397.77	-1.84003E+06	174.75
600.00	201.80	-1.61126E+06	415.16	-1.86036E+06	161.95
650.00	205.63	-1.60108E+06	431.47	-1.88153E+06	151.20
700.00	209.42	-1.59070E+06	446.85	-1.90349E+06	142.04
750.00	213.18	-1.58014E+06	461.42	-1.92620E+06	134.15
800.00	216.92	-1.56938E+06	475.30	-1.94962E+06	127.29
850.00	220.65	-1.55844E+06	488.56	-1.97372E+06	121.29
900.00	224.36	-1.54732E+06	501.28	-1.99847E+06	115.99
950.00	228.07	-1.53601E+06	513.51	-2.02384E+06	111.28
1000.0	231.77	-1.52451E+06	525.30	-2.04981E+06	107.07
1050.0	235.47	-1.51283E+06	536.70	-2.07637E+06	103.29
1100.0	239.16	-1.50097E+06	547.74	-2.10348E+06	99.883
1150.0	242.84	-1.48892E+06	558.45	-2.13113E+06	96.797
1200.0	246.52	-1.47668E+06	568.86	-2.15932E+06	93.990
1250.0	250.20	-1.46426E+06	579.00	-2.18802E+06	91.430
1300.0	253.88	-1.45166E+06	588.89	-2.21721E+06	89.086
1350.0	257.56	-1.43887E+06	598.54	-2.24690E+06	86.936
1400.0	261.23	-1.42591E+06	607.97	-2.27706E+06	84.956
1450.0	264.91	-1.41275E+06	617.20	-2.30769E+06	83.130
1500.0	268.58	-1.39941E+06	626.24	-2.33878E+06	81.442
1550.0	272.25	-1.38589E+06	635.11	-2.37032E+06	79.877
1600.0	275.92	-1.37219E+06	643.81	-2.40229E+06	78.425

AsCu3O4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	176.36	-7.10360E+05	255.98	-7.86680E+05	137.82
300.00	176.55	-7.10034E+05	257.07	-7.87154E+05	137.05
350.00	181.12	-7.01089E+05	284.64	-8.00712E+05	119.50
400.00	185.09	-6.91932E+05	309.09	-8.15566E+05	106.50
450.00	188.72	-6.82585E+05	331.10	-8.31580E+05	96.525
500.00	192.14	-6.73063E+05	351.16	-8.48643E+05	88.655
550.00	195.41	-6.63374E+05	369.63	-8.66669E+05	82.307
600.00	198.60	-6.53523E+05	386.77	-8.85584E+05	77.095
650.00	201.71	-6.43515E+05	402.79	-9.05327E+05	72.751
700.00	204.78	-6.33353E+05	417.85	-9.25847E+05	69.086

AsF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.712	-60114.	236.68	-1.30679E+05	22.894
300.00	33.743	-60052.	236.89	-1.31117E+05	22.829
350.00	34.442	-58346.	242.14	-1.43096E+05	21.355
400.00	34.950	-56611.	246.78	-1.55321E+05	20.282
450.00	35.344	-54853.	250.92	-1.67765E+05	19.473
500.00	35.663	-53077.	254.66	-1.80406E+05	18.846
550.00	35.930	-51287.	258.07	-1.93226E+05	18.351
600.00	36.160	-49485.	261.21	-2.06209E+05	17.952
650.00	36.360	-47672.	264.11	-2.19342E+05	17.626
700.00	36.536	-45849.	266.81	-2.32616E+05	17.358
750.00	36.692	-44019.	269.34	-2.46020E+05	17.134
800.00	36.831	-42181.	271.71	-2.59547E+05	16.946
850.00	36.955	-40336.	273.94	-2.73189E+05	16.788
900.00	37.065	-38485.	276.06	-2.86940E+05	16.653
950.00	37.162	-36630.	278.07	-3.00793E+05	16.538
1000.0	37.247	-34769.	279.98	-3.14745E+05	16.440
1050.0	37.320	-32905.	281.79	-3.28789E+05	16.356
1100.0	37.383	-31037.	283.53	-3.42923E+05	16.284
1150.0	37.438	-29167.	285.20	-3.57141E+05	16.221
1200.0	37.502	-27293.	286.79	-3.71441E+05	16.168
1250.0	37.573	-25417.	288.32	-3.85819E+05	16.122
1300.0	37.650	-23536.	289.80	-4.00272E+05	16.083
1350.0	37.732	-21651.	291.22	-4.14798E+05	16.049
1400.0	37.818	-19763.	292.59	-4.29394E+05	16.020
1450.0	37.908	-17870.	293.92	-4.44057E+05	15.996
1500.0	38.000	-15972.	295.21	-4.58785E+05	15.976
1550.0	38.094	-14070.	296.46	-4.73577E+05	15.959
1600.0	38.190	-12162.	297.67	-4.88430E+05	15.945
1650.0	38.288	-10251.	298.84	-5.03343E+05	15.934
1700.0	38.387	-8333.7	299.99	-5.18314E+05	15.925
1750.0	38.486	-6411.8	301.10	-5.33341E+05	15.919
1800.0	38.587	-4485.0	302.19	-5.48424E+05	15.914
1850.0	38.687	-2553.2	303.25	-5.63560E+05	15.912
1900.0	38.788	-616.29	304.28	-5.78748E+05	15.910
1950.0	38.890	1325.7	305.29	-5.93987E+05	15.911
2000.0	38.991	3272.7	306.27	-6.09277E+05	15.912
2050.0	39.092	5224.8	307.24	-6.24614E+05	15.915
2100.0	39.193	7181.9	308.18	-6.40000E+05	15.919
2150.0	39.294	9144.1	309.11	-6.55432E+05	15.923
2200.0	39.395	11111.	310.01	-6.70910E+05	15.929
2250.0	39.495	13084.	310.90	-6.86433E+05	15.935
2300.0	39.594	15061.	311.77	-7.02000E+05	15.943
2350.0	39.693	17043.	312.62	-7.17609E+05	15.950
2400.0	39.792	19030.	313.45	-7.33261E+05	15.959
2450.0	39.890	21022.	314.28	-7.48954E+05	15.968
2500.0	39.987	23019.	315.08	-7.64688E+05	15.977
2550.0	40.083	25021.	315.88	-7.80463E+05	15.987
2600.0	40.179	27027.	316.66	-7.96276E+05	15.997
2650.0	40.274	29039.	317.42	-8.12128E+05	16.008
2700.0	40.368	31055.	318.18	-8.28018E+05	16.019
2750.0	40.461	33076.	318.92	-8.43945E+05	16.030
2800.0	40.554	35101.	319.65	-8.59909E+05	16.041
2850.0	40.646	37131.	320.37	-8.75910E+05	16.053
2900.0	40.736	39165.	321.07	-8.91946E+05	16.065
2950.0	40.826	41205.	321.77	-9.08017E+05	16.078
3000.0	40.915	43248.	322.46	-9.24122E+05	16.090

AsF3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	64.573	-8.16000E+05	288.68	-9.02071E+05	158.04
300.00	64.736	-8.15880E+05	289.08	-9.02606E+05	157.15
350.00	68.360	-8.12547E+05	299.35	-9.17321E+05	136.90
400.00	70.956	-8.09061E+05	308.66	-9.32525E+05	121.77
450.00	72.927	-8.05462E+05	317.13	-9.48173E+05	110.06
500.00	74.482	-8.01776E+05	324.90	-9.64226E+05	100.73
550.00	75.743	-7.98019E+05	332.06	-9.80653E+05	93.132
600.00	76.782	-7.94205E+05	338.70	-9.97424E+05	86.831
650.00	77.643	-7.90344E+05	344.88	-1.01452E+06	81.525
700.00	78.358	-7.86443E+05	350.66	-1.03191E+06	77.000
750.00	78.945	-7.82510E+05	356.09	-1.04958E+06	73.097
800.00	79.418	-7.78550E+05	361.20	-1.06751E+06	69.699
850.00	79.831	-7.74569E+05	366.03	-1.08569E+06	66.717
900.00	80.179	-7.70568E+05	370.60	-1.10411E+06	64.079
950.00	80.473	-7.66552E+05	374.94	-1.12275E+06	61.731
1000.0	80.724	-7.62522E+05	379.08	-1.14160E+06	59.629
1050.0	80.941	-7.58480E+05	383.02	-1.16065E+06	57.738
1100.0	81.130	-7.54428E+05	386.79	-1.17990E+06	56.027
1150.0	81.294	-7.50367E+05	390.40	-1.19933E+06	54.474
1200.0	81.439	-7.46299E+05	393.86	-1.21893E+06	53.057
1250.0	81.567	-7.42224E+05	397.19	-1.23871E+06	51.762
1300.0	81.681	-7.38143E+05	400.39	-1.25865E+06	50.572
1350.0	81.783	-7.34056E+05	403.48	-1.27875E+06	49.476
1400.0	81.874	-7.29964E+05	406.45	-1.29900E+06	48.465
1450.0	81.956	-7.25869E+05	409.33	-1.31939E+06	47.528
1500.0	82.031	-7.21769E+05	412.11	-1.33993E+06	46.659
1550.0	82.098	-7.17666E+05	414.80	-1.36060E+06	45.851
1600.0	82.160	-7.13559E+05	417.40	-1.38141E+06	45.097
1650.0	82.216	-7.09450E+05	419.93	-1.40234E+06	44.393
1700.0	82.267	-7.05338E+05	422.39	-1.42340E+06	43.735
1750.0	82.315	-7.01223E+05	424.77	-1.44458E+06	43.117
1800.0	82.358	-6.97106E+05	427.09	-1.46587E+06	42.537
1850.0	82.398	-6.92987E+05	429.35	-1.48729E+06	41.992
1900.0	82.435	-6.88866E+05	431.55	-1.50881E+06	41.479
1950.0	82.470	-6.84744E+05	433.69	-1.53044E+06	40.995
2000.0	82.502	-6.80620E+05	435.78	-1.55218E+06	40.538
2050.0	82.532	-6.76494E+05	437.82	-1.57402E+06	40.105
2100.0	82.560	-6.72366E+05	439.81	-1.59596E+06	39.696
2150.0	82.586	-6.68238E+05	441.75	-1.61800E+06	39.309
2200.0	82.610	-6.64108E+05	443.65	-1.64013E+06	38.941
2250.0	82.633	-6.59977E+05	445.50	-1.66236E+06	38.591
2300.0	82.655	-6.55845E+05	447.32	-1.68468E+06	38.259
2350.0	82.675	-6.51711E+05	449.10	-1.70709E+06	37.943
2400.0	82.694	-6.47577E+05	450.84	-1.72959E+06	37.643
2450.0	82.712	-6.43442E+05	452.54	-1.75218E+06	37.356
2500.0	82.729	-6.39306E+05	454.22	-1.77484E+06	37.082
2550.0	82.745	-6.35169E+05	455.85	-1.79760E+06	36.821
2600.0	82.760	-6.31031E+05	457.46	-1.82043E+06	36.572
2650.0	82.775	-6.26893E+05	459.04	-1.84334E+06	36.334
2700.0	82.788	-6.22754E+05	460.58	-1.86633E+06	36.105
2750.0	82.801	-6.18614E+05	462.10	-1.88940E+06	35.887
2800.0	82.814	-6.14474E+05	463.60	-1.91254E+06	35.678
2850.0	82.825	-6.10333E+05	465.06	-1.93576E+06	35.478
2900.0	82.837	-6.06191E+05	466.50	-1.95905E+06	35.285
2950.0	82.847	-6.02049E+05	467.92	-1.98241E+06	35.101
3000.0	82.857	-5.97906E+05	469.31	-2.00584E+06	34.924

AsF5<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	96.070	-1.24050E+06	322.20	-1.33656E+06	234.15
300.00	96.380	-1.24032E+06	322.80	-1.33716E+06	232.81
350.00	103.38	-1.23532E+06	338.21	-1.35369E+06	202.02
400.00	108.49	-1.23002E+06	352.37	-1.37096E+06	179.02
450.00	112.42	-1.22449E+06	365.38	-1.38891E+06	161.22
500.00	115.56	-1.21879E+06	377.39	-1.40748E+06	147.03
550.00	118.11	-1.21294E+06	388.53	-1.42663E+06	135.49
600.00	120.21	-1.20698E+06	398.90	-1.44632E+06	125.91
650.00	121.95	-1.20093E+06	408.59	-1.46651E+06	117.85
700.00	123.36	-1.19479E+06	417.68	-1.48717E+06	110.97
750.00	124.56	-1.18859E+06	426.24	-1.50827E+06	105.04
800.00	125.55	-1.18234E+06	434.31	-1.52979E+06	99.882
850.00	126.36	-1.17604E+06	441.94	-1.55170E+06	95.353
900.00	127.05	-1.16971E+06	449.19	-1.57398E+06	91.349
950.00	127.64	-1.16334E+06	456.07	-1.59661E+06	87.785
1000.0	128.13	-1.15694E+06	462.63	-1.61958E+06	84.596
1050.0	128.57	-1.15053E+06	468.89	-1.64287E+06	81.726
1100.0	128.94	-1.14409E+06	474.88	-1.66646E+06	79.132
1150.0	129.27	-1.13763E+06	480.62	-1.69035E+06	76.776
1200.0	129.56	-1.13116E+06	486.13	-1.71452E+06	74.629
1250.0	129.81	-1.12468E+06	491.43	-1.73896E+06	72.665
1300.0	130.04	-1.11818E+06	496.52	-1.76366E+06	70.863
1350.0	130.24	-1.11168E+06	501.43	-1.78861E+06	69.204
1400.0	130.43	-1.10516E+06	506.17	-1.81380E+06	67.672
1450.0	130.59	-1.09863E+06	510.75	-1.83922E+06	66.254
1500.0	130.74	-1.09210E+06	515.18	-1.86487E+06	64.939
1550.0	130.88	-1.08556E+06	519.47	-1.89074E+06	63.716
1600.0	131.00	-1.07901E+06	523.63	-1.91682E+06	62.576
1650.0	131.12	-1.07246E+06	527.66	-1.94310E+06	61.512
1700.0	131.22	-1.06590E+06	531.58	-1.96958E+06	60.516
1750.0	131.32	-1.05934E+06	535.38	-1.99626E+06	59.584
1800.0	131.41	-1.05277E+06	539.08	-2.02312E+06	58.708
1850.0	131.49	-1.04620E+06	542.69	-2.05016E+06	57.885
1900.0	131.56	-1.03962E+06	546.19	-2.07739E+06	57.110
1950.0	131.63	-1.03304E+06	549.61	-2.10478E+06	56.379
2000.0	131.70	-1.02646E+06	552.94	-2.13235E+06	55.690
2050.0	131.76	-1.01987E+06	556.20	-2.16007E+06	55.038
2100.0	131.82	-1.01328E+06	559.37	-2.18796E+06	54.421
2150.0	131.87	-1.00669E+06	562.48	-2.21601E+06	53.837
2200.0	131.92	-1.00009E+06	565.51	-2.24421E+06	53.283
2250.0	131.97	-9.93496E+05	568.47	-2.27256E+06	52.757
2300.0	132.02	-9.86896E+05	571.37	-2.30106E+06	52.257
2350.0	132.06	-9.80294E+05	574.21	-2.32970E+06	51.782
2400.0	132.10	-9.73690E+05	576.99	-2.35848E+06	51.330
2450.0	132.14	-9.67085E+05	579.72	-2.38740E+06	50.899
2500.0	132.17	-9.60477E+05	582.39	-2.41645E+06	50.488
2550.0	132.20	-9.53868E+05	585.01	-2.44563E+06	50.096
2600.0	132.24	-9.47256E+05	587.57	-2.47495E+06	49.721
2650.0	132.27	-9.40644E+05	590.09	-2.50439E+06	49.363
2700.0	132.30	-9.34030E+05	592.57	-2.53396E+06	49.021
2750.0	132.32	-9.27414E+05	594.99	-2.56365E+06	48.694
2800.0	132.35	-9.20797E+05	597.38	-2.59346E+06	48.380
2850.0	132.37	-9.14179E+05	599.72	-2.62338E+06	48.080
2900.0	132.40	-9.07560E+05	602.02	-2.65343E+06	47.792
2950.0	132.42	-9.00939E+05	604.29	-2.68358E+06	47.516
3000.0	132.44	-8.94318E+05	606.51	-2.71385E+06	47.251

AsFeO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	117.05	-8.65335E+05	161.54	-9.13499E+05	160.04
300.00	117.14	-8.65118E+05	162.27	-9.13799E+05	159.10
350.00	119.56	-8.59201E+05	180.51	-9.22378E+05	137.65
400.00	121.98	-8.53162E+05	196.63	-9.31815E+05	121.68
450.00	124.40	-8.47003E+05	211.14	-9.42015E+05	109.34
500.00	136.98	-8.40458E+05	224.91	-9.52914E+05	99.548
550.00	140.73	-8.33515E+05	238.15	-9.64495E+05	91.598
600.00	144.48	-8.26384E+05	250.55	-9.76715E+05	85.028
650.00	148.23	-8.19066E+05	262.26	-9.89538E+05	79.518
700.00	151.98	-8.11561E+05	273.39	-1.00293E+06	74.838
750.00	155.73	-8.03868E+05	284.00	-1.01687E+06	70.819
800.00	159.48	-7.95988E+05	294.17	-1.03132E+06	67.337
850.00	163.23	-7.87921E+05	303.95	-1.04628E+06	64.295
900.00	156.91	-7.79735E+05	313.31	-1.06171E+06	61.619
950.00	158.83	-7.71842E+05	321.84	-1.07759E+06	59.249
1000.0	160.75	-7.63852E+05	330.04	-1.09389E+06	57.138
1050.0	162.67	-7.55767E+05	337.93	-1.11059E+06	55.248
1100.0	164.59	-7.47585E+05	345.54	-1.12768E+06	53.548
1150.0	166.51	-7.39308E+05	352.90	-1.14514E+06	52.013
1200.0	168.43	-7.30934E+05	360.03	-1.16297E+06	50.621

As2Fe3O8

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	264.64	-1.95497E+06	339.91	-2.05632E+06	360.25
300.00	265.22	-1.95448E+06	341.55	-2.05695E+06	358.14
350.00	278.40	-1.94088E+06	383.47	-2.07509E+06	309.68
400.00	288.39	-1.92670E+06	421.33	-2.09523E+06	273.60
450.00	296.53	-1.91207E+06	455.78	-2.11717E+06	245.75
500.00	303.52	-1.89706E+06	487.39	-2.14076E+06	223.64
550.00	309.75	-1.88173E+06	516.62	-2.16587E+06	205.69
600.00	315.47	-1.86610E+06	543.82	-2.19239E+06	190.86
650.00	320.83	-1.85019E+06	569.28	-2.22022E+06	178.41
700.00	325.92	-1.83402E+06	593.25	-2.24929E+06	167.84
750.00	330.83	-1.81760E+06	615.90	-2.27952E+06	158.76
800.00	335.58	-1.80094E+06	637.40	-2.31086E+06	150.88

AsGa

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	46.996	-81588.	64.224	-1.00736E+05	17.648
300.00	47.007	-81501.	64.515	-1.00855E+05	17.560
350.00	47.311	-79143.	71.784	-1.04267E+05	15.561
400.00	47.614	-76770.	78.121	-1.08018E+05	14.105
450.00	47.917	-74382.	83.747	-1.12068E+05	13.008
500.00	48.221	-71978.	88.811	-1.16384E+05	12.158
550.00	48.524	-69560.	93.421	-1.20941E+05	11.486
600.00	48.827	-67126.	97.656	-1.25720E+05	10.945
650.00	49.131	-64677.	101.58	-1.30702E+05	10.503
700.00	49.434	-62213.	105.23	-1.35873E+05	10.139
750.00	49.737	-59734.	108.65	-1.41221E+05	9.8352
800.00	50.041	-57239.	111.87	-1.46734E+05	9.5805
850.00	50.344	-54729.	114.91	-1.52405E+05	9.3654
900.00	50.647	-52205.	117.80	-1.58223E+05	9.1828
950.00	50.951	-49665.	120.54	-1.64182E+05	9.0271
1000.0	51.254	-47110.	123.17	-1.70275E+05	8.8940
1050.0	51.557	-44539.	125.67	-1.76497E+05	8.7800
1100.0	51.861	-41954.	128.08	-1.82841E+05	8.6822
1150.0	52.164	-39353.	130.39	-1.89303E+05	8.5982
1200.0	52.467	-36737.	132.62	-1.95879E+05	8.5262
1250.0	52.771	-34107.	134.77	-2.02564E+05	8.4645
1300.0	53.074	-31460.	136.84	-2.09354E+05	8.4117
1350.0	53.377	-28799.	138.85	-2.16247E+05	8.3669
1400.0	53.681	-26123.	140.80	-2.23238E+05	8.3289
1450.0	53.984	-23431.	142.69	-2.30325E+05	8.2970
1500.0	54.287	-20724.	144.52	-2.37506E+05	8.2705
1511.0	54.354	-20127.	144.92	-2.39097E+05	8.2653
1511.0	58.994	67737.	203.07	-2.39098E+05	8.2653
1550.0	58.994	70038.	204.57	-2.47047E+05	8.3252
1600.0	58.994	72988.	206.44	-2.57322E+05	8.4005
1650.0	58.994	75937.	208.26	-2.67690E+05	8.4741
1700.0	58.994	78887.	210.02	-2.78147E+05	8.5462

AsGaO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	118.26	-1.00224E+06	150.12	-1.04699E+06	183.42
300.00	118.58	-1.00202E+06	150.85	-1.04727E+06	182.34
350.00	125.86	-9.95894E+05	169.71	-1.05529E+06	157.49
400.00	131.19	-9.89462E+05	186.88	-1.06422E+06	138.97
450.00	135.38	-9.82794E+05	202.59	-1.07396E+06	124.66
500.00	138.87	-9.75935E+05	217.04	-1.08445E+06	113.29
550.00	141.90	-9.68914E+05	230.42	-1.09564E+06	104.05
600.00	144.61	-9.61751E+05	242.88	-1.10748E+06	96.412
650.00	147.11	-9.54457E+05	254.56	-1.11992E+06	89.996
700.00	149.44	-9.47043E+05	265.54	-1.13292E+06	84.538
750.00	151.65	-9.39515E+05	275.93	-1.14646E+06	79.845
800.00	153.78	-9.31879E+05	285.79	-1.16051E+06	75.771
850.00	155.83	-9.24138E+05	295.17	-1.17503E+06	72.207

AsGe

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	51.881	-12552.	66.944	-32511.	5.6957
300.00	51.904	-12456.	67.265	-32635.	5.6822
350.00	52.506	-9845.8	75.311	-36205.	5.4031
400.00	53.108	-7205.4	82.362	-40150.	5.2429
450.00	53.709	-4535.0	88.652	-44428.	5.1570
500.00	54.311	-1834.5	94.342	-49005.	5.1194
550.00	54.913	896.12	99.546	-53854.	5.1145
600.00	55.515	3656.8	104.35	-58953.	5.1322
650.00	56.117	6447.6	108.82	-64284.	5.1658
700.00	56.719	9268.5	113.00	-69830.	5.2107
750.00	57.321	12120.	116.93	-75579.	5.2637
800.00	57.923	15001.	120.65	-81520.	5.3226
850.00	58.525	17912.	124.18	-87641.	5.3856
900.00	59.127	20853.	127.54	-93935.	5.4517
950.00	59.729	23824.	130.76	-1.00393E+05	5.5199
1000.0	60.331	26826.	133.83	-1.07008E+05	5.5894

AsH<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.212	2.25642E+05	208.29	1.63541E+05	-28.651
300.00	29.209	2.25696E+05	208.47	1.63155E+05	-28.407
350.00	29.271	2.27157E+05	212.97	1.52616E+05	-22.776
400.00	29.502	2.28626E+05	216.90	1.41867E+05	-18.526
450.00	29.824	2.30109E+05	220.39	1.30934E+05	-15.198
500.00	30.195	2.31609E+05	223.55	1.19834E+05	-12.519
550.00	30.592	2.33129E+05	226.45	1.08583E+05	-10.312
600.00	31.001	2.34669E+05	229.13	97193.	-8.4612
650.00	31.413	2.36229E+05	231.62	85674.	-6.8846
700.00	31.822	2.37810E+05	233.97	74033.	-5.5243
750.00	32.223	2.39411E+05	236.18	62279.	-4.3374
800.00	32.615	2.41032E+05	238.27	50418.	-3.2918
850.00	32.996	2.42672E+05	240.26	38454.	-2.3630
900.00	33.363	2.44331E+05	242.15	26393.	-1.5318
950.00	33.716	2.46008E+05	243.97	14240.	-0.78295
1000.0	34.054	2.47703E+05	245.70	1998.0	-0.10436
1050.0	34.376	2.49413E+05	247.37	-10329.	0.51384
1100.0	34.682	2.51140E+05	248.98	-22738.	1.0797
1150.0	34.971	2.52881E+05	250.53	-35226.	1.6000
1200.0	35.244	2.54637E+05	252.02	-47790.	2.0802
1250.0	35.499	2.56405E+05	253.47	-60428.	2.5251
1300.0	35.738	2.58186E+05	254.86	-73136.	2.9386
1350.0	35.959	2.59979E+05	256.22	-85913.	3.3241
1400.0	36.180	2.61782E+05	257.53	-98757.	3.6846
1450.0	36.400	2.63597E+05	258.80	-1.11665E+05	4.0225
1500.0	36.619	2.65422E+05	260.04	-1.24637E+05	4.3401
1550.0	36.837	2.67259E+05	261.24	-1.37669E+05	4.6393
1600.0	37.052	2.69106E+05	262.42	-1.50760E+05	4.9217
1650.0	37.264	2.70964E+05	263.56	-1.63910E+05	5.1888
1700.0	37.473	2.72832E+05	264.68	-1.77116E+05	5.4420
1750.0	37.680	2.74711E+05	265.76	-1.90377E+05	5.6823
1800.0	37.883	2.76600E+05	266.83	-2.03692E+05	5.9108
1850.0	38.082	2.78499E+05	267.87	-2.17060E+05	6.1285
1900.0	38.278	2.80408E+05	268.89	-2.30479E+05	6.3361
1950.0	38.470	2.82327E+05	269.88	-2.43948E+05	6.5345
2000.0	38.658	2.84255E+05	270.86	-2.57467E+05	6.7242
2050.0	38.842	2.86193E+05	271.82	-2.71034E+05	6.9059
2100.0	39.022	2.88139E+05	272.76	-2.84648E+05	7.0801
2150.0	39.198	2.90095E+05	273.68	-2.98309E+05	7.2473
2200.0	39.369	2.92059E+05	274.58	-3.12016E+05	7.4080
2250.0	39.536	2.94032E+05	275.47	-3.25767E+05	7.5626
2300.0	39.699	2.96013E+05	276.34	-3.39562E+05	7.7115
2350.0	39.857	2.98002E+05	277.19	-3.53400E+05	7.8550
2400.0	40.010	2.99998E+05	278.03	-3.67281E+05	7.9935
2450.0	40.159	3.02003E+05	278.86	-3.81203E+05	8.1271
2500.0	40.303	3.04014E+05	279.67	-3.95167E+05	8.2563
2550.0	40.443	3.06033E+05	280.47	-4.09170E+05	8.3813
2600.0	40.578	3.08058E+05	281.26	-4.23214E+05	8.5022
2650.0	40.708	3.10091E+05	282.03	-4.37296E+05	8.6194
2700.0	40.834	3.12129E+05	282.79	-4.51417E+05	8.7330
2750.0	40.955	3.14174E+05	283.55	-4.65575E+05	8.8431
2800.0	41.071	3.16224E+05	284.28	-4.79771E+05	8.9500
2850.0	41.182	3.18281E+05	285.01	-4.94003E+05	9.0538
2900.0	41.288	3.20343E+05	285.73	-5.08272E+05	9.1547
2950.0	41.389	3.22410E+05	286.44	-5.22576E+05	9.2528
3000.0	41.486	3.24481E+05	287.13	-5.36915E+05	9.3483

AsH2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.187	1.69034E+05	225.29	1.01863E+05	-17.845
300.00	35.216	1.69099E+05	225.51	1.01446E+05	-17.663
350.00	36.104	1.70881E+05	231.00	90030.	-13.436
400.00	37.132	1.72711E+05	235.89	78356.	-10.232
450.00	38.219	1.74595E+05	240.33	66449.	-7.7130
500.00	39.320	1.76534E+05	244.41	54329.	-5.6756
550.00	40.411	1.78527E+05	248.21	42012.	-3.9899
600.00	41.479	1.80574E+05	251.77	29512.	-2.5692
650.00	42.512	1.82674E+05	255.13	16839.	-1.3531
700.00	43.505	1.84825E+05	258.32	4001.8	-0.29861
750.00	44.454	1.87024E+05	261.35	-8990.6	0.62615
800.00	45.357	1.89269E+05	264.25	-22131.	1.4450
850.00	46.210	1.91559E+05	267.03	-35414.	2.1762
900.00	47.013	1.93890E+05	269.69	-48832.	2.8341
950.00	47.764	1.96259E+05	272.25	-62381.	3.4299
1000.0	48.463	1.98665E+05	274.72	-76056.	3.9726
1050.0	49.108	2.01105E+05	277.10	-89852.	4.4698
1100.0	49.700	2.03575E+05	279.40	-1.03764E+05	4.9272
1150.0	50.238	2.06074E+05	281.62	-1.17790E+05	5.3501
1200.0	50.721	2.08598E+05	283.77	-1.31925E+05	5.7424
1250.0	51.150	2.11145E+05	285.85	-1.46166E+05	6.1078
1300.0	51.524	2.13712E+05	287.86	-1.60509E+05	6.4492
1350.0	51.928	2.16298E+05	289.81	-1.74951E+05	6.7691
1400.0	52.296	2.18904E+05	291.71	-1.89490E+05	7.0698
1450.0	52.631	2.21527E+05	293.55	-2.04121E+05	7.3531
1500.0	52.938	2.24167E+05	295.34	-2.18844E+05	7.6206
1550.0	53.220	2.26821E+05	297.08	-2.33655E+05	7.8739
1600.0	53.480	2.29488E+05	298.77	-2.48551E+05	8.1142
1650.0	53.720	2.32168E+05	300.42	-2.63531E+05	8.3425
1700.0	53.943	2.34860E+05	302.03	-2.78593E+05	8.5599
1750.0	54.150	2.37562E+05	303.60	-2.93734E+05	8.7673
1800.0	54.343	2.40275E+05	305.13	-3.08952E+05	8.9653
1850.0	54.523	2.42997E+05	306.62	-3.24246E+05	9.1548
1900.0	54.691	2.45727E+05	308.07	-3.39613E+05	9.3364
1950.0	54.849	2.48465E+05	309.50	-3.55053E+05	9.5106
2000.0	54.998	2.51212E+05	310.89	-3.70562E+05	9.6779
2050.0	55.137	2.53965E+05	312.25	-3.86141E+05	9.8387
2100.0	55.268	2.56725E+05	313.58	-4.01787E+05	9.9936
2150.0	55.391	2.59492E+05	314.88	-4.17498E+05	10.143
2200.0	55.508	2.62264E+05	316.15	-4.33274E+05	10.287
2250.0	55.618	2.65042E+05	317.40	-4.49113E+05	10.426
2300.0	55.721	2.67826E+05	318.63	-4.65014E+05	10.561
2350.0	55.819	2.70614E+05	319.83	-4.80975E+05	10.691
2400.0	55.912	2.73408E+05	321.00	-4.96996E+05	10.817
2450.0	55.999	2.76206E+05	322.16	-5.13075E+05	10.939
2500.0	56.082	2.79008E+05	323.29	-5.29211E+05	11.057
2550.0	56.160	2.81814E+05	324.40	-5.45403E+05	11.172
2600.0	56.234	2.84624E+05	325.49	-5.61651E+05	11.283
2650.0	56.303	2.87437E+05	326.56	-5.77952E+05	11.392
2700.0	56.369	2.90254E+05	327.61	-5.94307E+05	11.497
2750.0	56.431	2.93074E+05	328.65	-6.10713E+05	11.600
2800.0	56.490	2.95897E+05	329.67	-6.27171E+05	11.700
2850.0	56.544	2.98723E+05	330.67	-6.43680E+05	11.797
2900.0	56.596	3.01551E+05	331.65	-6.60238E+05	11.892
2950.0	56.645	3.04382E+05	332.62	-6.76845E+05	11.984
3000.0	56.690	3.07216E+05	333.57	-6.93499E+05	12.075

AsH3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	38.561	61100.	222.96	-5375.8	0.94180
300.00	38.658	61171.	223.20	-5788.5	1.0078
350.00	41.287	63170.	229.36	-17105.	2.5527
400.00	43.901	65300.	235.04	-28716.	3.7499
450.00	46.449	67559.	240.36	-40603.	4.7129
500.00	48.902	69943.	245.38	-52747.	5.5103
550.00	51.246	72447.	250.15	-65137.	6.1860
600.00	53.470	75066.	254.71	-77759.	6.7693
650.00	55.570	77792.	259.07	-90604.	7.2809
700.00	57.540	80621.	263.26	-1.03663E+05	7.7352
750.00	59.380	83544.	267.30	-1.16928E+05	8.1434
800.00	61.085	86556.	271.18	-1.30390E+05	8.5134
850.00	62.657	89650.	274.93	-1.44044E+05	8.8516
900.00	64.090	92820.	278.56	-1.57882E+05	9.1630
950.00	65.460	96059.	282.06	-1.71898E+05	9.4514
1000.0	66.680	99363.	285.45	-1.86086E+05	9.7199
1050.0	67.778	1.02725E+05	288.73	-2.00441E+05	9.9711
1100.0	68.772	1.06139E+05	291.91	-2.14957E+05	10.207
1150.0	69.677	1.09601E+05	294.98	-2.29630E+05	10.430
1200.0	70.505	1.13106E+05	297.97	-2.44454E+05	10.641
1250.0	71.266	1.16650E+05	300.86	-2.59425E+05	10.840
1300.0	71.968	1.20231E+05	303.67	-2.74538E+05	11.031
1350.0	72.618	1.23846E+05	306.40	-2.89790E+05	11.212
1400.0	73.220	1.27492E+05	309.05	-3.05177E+05	11.386
1450.0	73.780	1.31167E+05	311.63	-3.20694E+05	11.552
1500.0	74.300	1.34870E+05	314.14	-3.36338E+05	11.712
1550.0	74.785	1.38597E+05	316.58	-3.52107E+05	11.866
1600.0	75.236	1.42348E+05	318.96	-3.67996E+05	12.014
1650.0	75.656	1.46120E+05	321.29	-3.84002E+05	12.156
1700.0	76.047	1.49913E+05	323.55	-4.00123E+05	12.294
1750.0	76.410	1.53724E+05	325.76	-4.16356E+05	12.427
1800.0	76.747	1.57553E+05	327.92	-4.32699E+05	12.556
1850.0	77.059	1.61398E+05	330.02	-4.49147E+05	12.681
1900.0	77.348	1.65259E+05	332.08	-4.65700E+05	12.803
1950.0	77.613	1.69133E+05	334.10	-4.82355E+05	12.921
2000.0	77.857	1.73020E+05	336.06	-4.99109E+05	13.035
2050.0	78.079	1.76918E+05	337.99	-5.15961E+05	13.147
2100.0	78.280	1.80827E+05	339.87	-5.32907E+05	13.255
2150.0	78.489	1.84746E+05	341.72	-5.49947E+05	13.361
2200.0	78.685	1.88676E+05	343.52	-5.67079E+05	13.464
2250.0	78.868	1.92615E+05	345.30	-5.84299E+05	13.564
2300.0	79.040	1.96562E+05	347.03	-6.01607E+05	13.663
2350.0	79.201	2.00518E+05	348.73	-6.19002E+05	13.759
2400.0	79.353	2.04482E+05	350.40	-6.36480E+05	13.852
2450.0	79.497	2.08454E+05	352.04	-6.54041E+05	13.944
2500.0	79.632	2.12432E+05	353.65	-6.71683E+05	14.034
2550.0	79.760	2.16417E+05	355.22	-6.89405E+05	14.122
2600.0	79.881	2.20408E+05	356.77	-7.07205E+05	14.208
2650.0	79.995	2.24405E+05	358.30	-7.25082E+05	14.292
2700.0	80.104	2.28407E+05	359.79	-7.43035E+05	14.375
2750.0	80.207	2.32415E+05	361.26	-7.61061E+05	14.456
2800.0	80.305	2.36428E+05	362.71	-7.79161E+05	14.535
2850.0	80.398	2.40445E+05	364.13	-7.97332E+05	14.613
2900.0	80.486	2.44467E+05	365.53	-8.15574E+05	14.690
2950.0	80.571	2.48494E+05	366.91	-8.33885E+05	14.765
3000.0	80.651	2.52524E+05	368.26	-8.52264E+05	14.839

As2Hg308

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	261.72	-1.27097E+06	323.46	-1.36742E+06	239.56
300.00	262.32	-1.27049E+06	325.09	-1.36802E+06	238.19
350.00	275.99	-1.25701E+06	366.61	-1.38533E+06	206.74
400.00	286.23	-1.24295E+06	404.16	-1.40461E+06	183.42
450.00	294.47	-1.22842E+06	438.36	-1.42569E+06	165.49
500.00	301.47	-1.21352E+06	469.76	-1.44840E+06	151.31
550.00	307.66	-1.19829E+06	498.79	-1.47262E+06	139.85
600.00	313.30	-1.18276E+06	525.80	-1.49824E+06	130.43
650.00	318.55	-1.16696E+06	551.09	-1.52517E+06	122.56
700.00	323.51	-1.15091E+06	574.88	-1.55333E+06	115.91
750.00	328.27	-1.13462E+06	597.36	-1.58264E+06	110.22
800.00	332.87	-1.11809E+06	618.70	-1.61305E+06	105.32

AsI<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	41.752	1.58992E+05	264.29	80195.	-14.049
300.00	41.727	1.59069E+05	264.55	79706.	-13.878
350.00	41.093	1.61139E+05	270.93	66314.	-9.8966
400.00	40.553	1.63180E+05	276.38	52628.	-6.8724
450.00	40.088	1.65196E+05	281.13	38688.	-4.4907
500.00	39.686	1.67190E+05	285.33	24525.	-2.5620
550.00	39.342	1.69165E+05	289.10	10162.	-0.96510
600.00	39.052	1.71125E+05	292.51	-4379.2	0.38123
650.00	38.814	1.73071E+05	295.62	-19084.	1.5335
700.00	38.625	1.75007E+05	298.49	-33937.	2.5324
750.00	38.486	1.76935E+05	301.15	-48929.	3.4077
800.00	38.396	1.78857E+05	303.63	-64050.	4.1819
850.00	38.291	1.80774E+05	305.96	-79290.	4.8724
900.00	38.203	1.82686E+05	308.14	-94643.	5.4928
950.00	38.130	1.84594E+05	310.21	-1.10102E+05	6.0537
1000.0	38.068	1.86499E+05	312.16	-1.25662E+05	6.5637
1050.0	38.016	1.88401E+05	314.02	-1.41317E+05	7.0300
1100.0	37.971	1.90301E+05	315.78	-1.57062E+05	7.4581
1150.0	37.932	1.92199E+05	317.47	-1.72894E+05	7.8529
1200.0	37.898	1.94094E+05	319.09	-1.88808E+05	8.2184
1250.0	37.869	1.95988E+05	320.63	-2.04801E+05	8.5580
1300.0	37.844	1.97881E+05	322.12	-2.20870E+05	8.8745
1350.0	37.822	1.99773E+05	323.54	-2.37012E+05	9.1703
1400.0	37.803	2.01663E+05	324.92	-2.53224E+05	9.4477
1450.0	37.786	2.03553E+05	326.25	-2.69503E+05	9.7083
1500.0	37.771	2.05442E+05	327.53	-2.85848E+05	9.9539
1550.0	37.758	2.07330E+05	328.76	-3.02255E+05	10.186
1600.0	37.746	2.09218E+05	329.96	-3.18724E+05	10.405
1650.0	37.736	2.11105E+05	331.12	-3.35251E+05	10.613
1700.0	37.727	2.12992E+05	332.25	-3.51835E+05	10.810
1750.0	37.719	2.14878E+05	333.34	-3.68476E+05	10.998
1800.0	37.713	2.16763E+05	334.41	-3.85169E+05	11.177
1850.0	37.707	2.18649E+05	335.44	-4.01916E+05	11.348
1900.0	37.701	2.20534E+05	336.45	-4.18713E+05	11.511
1950.0	37.697	2.22419E+05	337.43	-4.35560E+05	11.667
2000.0	37.693	2.24304E+05	338.38	-4.52455E+05	11.817
2050.0	37.690	2.26188E+05	339.31	-4.69397E+05	11.960
2100.0	37.687	2.28073E+05	340.22	-4.86386E+05	12.098
2150.0	37.684	2.29957E+05	341.11	-5.03419E+05	12.230
2200.0	37.682	2.31841E+05	341.97	-5.20496E+05	12.358
2250.0	37.681	2.33725E+05	342.82	-5.37616E+05	12.481
2300.0	37.679	2.35609E+05	343.65	-5.54777E+05	12.599
2350.0	37.678	2.37493E+05	344.46	-5.71980E+05	12.713
2400.0	37.677	2.39377E+05	345.25	-5.89223E+05	12.824
2450.0	37.677	2.41261E+05	346.03	-6.06505E+05	12.931
2500.0	37.677	2.43145E+05	346.79	-6.23825E+05	13.034
2550.0	37.677	2.45029E+05	347.53	-6.41183E+05	13.134
2600.0	37.677	2.46912E+05	348.27	-6.58578E+05	13.231
2650.0	37.677	2.48796E+05	348.98	-6.76010E+05	13.325
2700.0	37.677	2.50680E+05	349.69	-6.93477E+05	13.416
2750.0	37.678	2.52564E+05	350.38	-7.10978E+05	13.504
2800.0	37.679	2.54448E+05	351.06	-7.28514E+05	13.590
2850.0	37.680	2.56332E+05	351.72	-7.46084E+05	13.674
2900.0	37.681	2.58216E+05	352.38	-7.63687E+05	13.755
2950.0	37.682	2.60100E+05	353.02	-7.81322E+05	13.834
3000.0	37.683	2.61984E+05	353.66	-7.98989E+05	13.911

AsI2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.723	94558.	334.95	-5308.4	0.92999
300.00	56.740	94663.	335.31	-5928.4	1.0322
350.00	57.123	97511.	344.08	-22919.	3.4203
400.00	57.371	1.00373E+05	351.73	-40318.	5.2649
450.00	57.542	1.03246E+05	358.50	-58077.	6.7412
500.00	57.664	1.06127E+05	364.57	-76156.	7.9558
550.00	57.755	1.09012E+05	370.07	-94524.	8.9769
600.00	57.824	1.11902E+05	375.09	-1.13155E+05	9.8507
650.00	57.878	1.14795E+05	379.73	-1.32027E+05	10.610
700.00	57.922	1.17690E+05	384.02	-1.51122E+05	11.277
750.00	57.957	1.20587E+05	388.01	-1.70423E+05	11.869
800.00	57.985	1.23485E+05	391.75	-1.89919E+05	12.400
850.00	58.009	1.26385E+05	395.27	-2.09595E+05	12.880
900.00	58.029	1.29286E+05	398.59	-2.29442E+05	13.316
950.00	58.047	1.32188E+05	401.73	-2.49451E+05	13.715
1000.0	58.061	1.35091E+05	404.70	-2.69612E+05	14.083
1050.0	58.074	1.37994E+05	407.54	-2.89919E+05	14.422
1100.0	58.085	1.40898E+05	410.24	-3.10364E+05	14.738
1150.0	58.095	1.43803E+05	412.82	-3.30941E+05	15.031
1200.0	58.104	1.46708E+05	415.29	-3.51644E+05	15.306
1250.0	58.112	1.49613E+05	417.66	-3.72468E+05	15.564
1300.0	58.118	1.52519E+05	419.94	-3.93409E+05	15.807
1350.0	58.125	1.55425E+05	422.14	-4.14461E+05	16.036
1400.0	58.130	1.58331E+05	424.25	-4.35621E+05	16.253
1450.0	58.135	1.61238E+05	426.29	-4.56885E+05	16.458
1500.0	58.140	1.64145E+05	428.26	-4.78249E+05	16.654
1550.0	58.144	1.67052E+05	430.17	-4.99710E+05	16.840
1600.0	58.147	1.69959E+05	432.02	-5.21265E+05	17.017
1650.0	58.151	1.72866E+05	433.80	-5.42911E+05	17.187
1700.0	58.154	1.75774E+05	435.54	-5.64645E+05	17.349
1750.0	58.157	1.78682E+05	437.23	-5.86464E+05	17.505
1800.0	58.159	1.81590E+05	438.86	-6.08367E+05	17.654
1850.0	58.162	1.84498E+05	440.46	-6.30350E+05	17.797
1900.0	58.164	1.87406E+05	442.01	-6.52412E+05	17.936
1950.0	58.166	1.90314E+05	443.52	-6.74550E+05	18.069
2000.0	58.168	1.93223E+05	444.99	-6.96763E+05	18.197
2050.0	58.170	1.96131E+05	446.43	-7.19049E+05	18.321
2100.0	58.171	1.99040E+05	447.83	-7.41405E+05	18.441
2150.0	58.173	2.01948E+05	449.20	-7.63831E+05	18.557
2200.0	58.174	2.04857E+05	450.54	-7.86325E+05	18.669
2250.0	58.175	2.07766E+05	451.84	-8.08884E+05	18.778
2300.0	58.176	2.10674E+05	453.12	-8.31509E+05	18.884
2350.0	58.177	2.13583E+05	454.37	-8.54196E+05	18.986
2400.0	58.178	2.16492E+05	455.60	-8.76946E+05	19.086
2450.0	58.179	2.19401E+05	456.80	-8.99756E+05	19.183
2500.0	58.180	2.22310E+05	457.97	-9.22625E+05	19.277
2550.0	58.180	2.25219E+05	459.13	-9.45553E+05	19.368
2600.0	58.181	2.28128E+05	460.26	-9.68537E+05	19.458
2650.0	58.181	2.31037E+05	461.36	-9.91578E+05	19.545
2700.0	58.182	2.33946E+05	462.45	-1.01467E+06	19.630
2750.0	58.182	2.36855E+05	463.52	-1.03782E+06	19.712
2800.0	58.182	2.39764E+05	464.57	-1.06103E+06	19.793
2850.0	58.183	2.42673E+05	465.60	-1.08428E+06	19.872
2900.0	58.183	2.45583E+05	466.61	-1.10758E+06	19.949
2950.0	58.183	2.48492E+05	467.60	-1.13094E+06	20.025
3000.0	58.183	2.51401E+05	468.58	-1.15434E+06	20.098

AsI3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.952	35982.	391.90	-80862.	14.166
300.00	80.979	36132.	392.40	-81588.	14.205
350.00	81.545	40196.	404.93	-1.01529E+05	15.152
400.00	81.913	44283.	415.84	-1.22054E+05	15.938
450.00	82.166	48386.	425.51	-1.43092E+05	16.609
500.00	82.347	52499.	434.17	-1.64588E+05	17.194
550.00	82.482	56620.	442.03	-1.86496E+05	17.711
600.00	82.585	60746.	449.21	-2.08780E+05	18.175
650.00	82.665	64878.	455.82	-2.31408E+05	18.596
700.00	82.729	69013.	461.95	-2.54354E+05	18.980
750.00	82.781	73150.	467.66	-2.77596E+05	19.333
800.00	82.824	77291.	473.01	-3.01114E+05	19.660
850.00	82.859	81433.	478.03	-3.24891E+05	19.965
900.00	82.889	85576.	482.76	-3.48912E+05	20.250
950.00	82.915	89722.	487.25	-3.73163E+05	20.517
1000.0	82.937	93868.	491.50	-3.97633E+05	20.770
1050.0	82.956	98015.	495.55	-4.22310E+05	21.008
1100.0	82.973	1.02163E+05	499.41	-4.47184E+05	21.234
1150.0	82.987	1.06312E+05	503.10	-4.72248E+05	21.450
1200.0	83.000	1.10462E+05	506.63	-4.97491E+05	21.655
1250.0	83.012	1.14612E+05	510.02	-5.22908E+05	21.851
1300.0	83.022	1.18763E+05	513.27	-5.48491E+05	22.038
1350.0	83.031	1.22915E+05	516.41	-5.74233E+05	22.218
1400.0	83.039	1.27066E+05	519.43	-6.00130E+05	22.391
1450.0	83.047	1.31219E+05	522.34	-6.26174E+05	22.557
1500.0	83.054	1.35371E+05	525.16	-6.52362E+05	22.717
1550.0	83.060	1.39524E+05	527.88	-6.78688E+05	22.871
1600.0	83.065	1.43677E+05	530.52	-7.05148E+05	23.020
1650.0	83.070	1.47830E+05	533.07	-7.31738E+05	23.164
1700.0	83.075	1.51984E+05	535.55	-7.58454E+05	23.304
1750.0	83.079	1.56138E+05	537.96	-7.85292E+05	23.439
1800.0	83.083	1.60292E+05	540.30	-8.12249E+05	23.570
1850.0	83.087	1.64446E+05	542.58	-8.39321E+05	23.698
1900.0	83.090	1.68601E+05	544.79	-8.66506E+05	23.821
1950.0	83.093	1.72755E+05	546.95	-8.93800E+05	23.942
2000.0	83.096	1.76910E+05	549.05	-9.21200E+05	24.059
2050.0	83.098	1.81065E+05	551.11	-9.48704E+05	24.173
2100.0	83.101	1.85220E+05	553.11	-9.76310E+05	24.284
2150.0	83.103	1.89375E+05	555.06	-1.00401E+06	24.392
2200.0	83.105	1.93530E+05	556.98	-1.03182E+06	24.498
2250.0	83.107	1.97685E+05	558.84	-1.05971E+06	24.601
2300.0	83.108	2.01841E+05	560.67	-1.08770E+06	24.702
2350.0	83.110	2.05996E+05	562.46	-1.11578E+06	24.800
2400.0	83.111	2.10152E+05	564.21	-1.14394E+06	24.897
2450.0	83.112	2.14307E+05	565.92	-1.17220E+06	24.991
2500.0	83.113	2.18463E+05	567.60	-1.20054E+06	25.083
2550.0	83.114	2.22619E+05	569.25	-1.22896E+06	25.174
2600.0	83.115	2.26774E+05	570.86	-1.25746E+06	25.262
2650.0	83.115	2.30930E+05	572.44	-1.28604E+06	25.349
2700.0	83.116	2.35086E+05	574.00	-1.31470E+06	25.434
2750.0	83.116	2.39242E+05	575.52	-1.34344E+06	25.517
2800.0	83.117	2.43397E+05	577.02	-1.37226E+06	25.599
2850.0	83.117	2.47553E+05	578.49	-1.40114E+06	25.679
2900.0	83.117	2.51709E+05	579.94	-1.43010E+06	25.758
2950.0	83.117	2.55865E+05	581.36	-1.45914E+06	25.836
3000.0	83.117	2.60021E+05	582.75	-1.48824E+06	25.912

As2I4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	127.65	30125.	480.52	-1.13141E+05	19.821
300.00	127.71	30361.	481.31	-1.14031E+05	19.854
350.00	129.10	36784.	501.11	-1.38603E+05	20.685
400.00	130.00	43263.	518.41	-1.64100E+05	21.429
450.00	130.62	49779.	533.76	-1.90411E+05	22.102
500.00	131.06	56322.	547.54	-2.17449E+05	22.716
550.00	131.39	62884.	560.05	-2.45144E+05	23.281
600.00	131.64	69460.	571.49	-2.73437E+05	23.804
650.00	131.84	76047.	582.04	-3.02278E+05	24.291
700.00	132.00	82643.	591.82	-3.31628E+05	24.746
750.00	132.13	89246.	600.93	-3.61449E+05	25.173
800.00	132.23	95855.	609.46	-3.91711E+05	25.575
850.00	132.32	1.02469E+05	617.48	-4.22386E+05	25.956
900.00	132.39	1.09087E+05	625.04	-4.53451E+05	26.317
950.00	132.46	1.15708E+05	632.20	-4.84884E+05	26.660
1000.0	132.51	1.22333E+05	639.00	-5.16665E+05	26.987
1050.0	132.56	1.28959E+05	645.46	-5.48778E+05	27.300
1100.0	132.60	1.35588E+05	651.63	-5.81207E+05	27.598
1150.0	132.64	1.42219E+05	657.53	-6.13937E+05	27.885
1200.0	132.67	1.48852E+05	663.17	-6.46955E+05	28.161
1250.0	132.70	1.55486E+05	668.59	-6.80250E+05	28.425
1300.0	132.72	1.62122E+05	673.79	-7.13810E+05	28.681
1350.0	132.75	1.68758E+05	678.80	-7.47626E+05	28.927
1400.0	132.77	1.75396E+05	683.63	-7.81688E+05	29.164
1450.0	132.79	1.82035E+05	688.29	-8.15986E+05	29.394
1500.0	132.80	1.88675E+05	692.79	-8.50514E+05	29.617
1550.0	132.82	1.95315E+05	697.15	-8.85263E+05	29.832
1600.0	132.83	2.01956E+05	701.36	-9.20227E+05	30.042
1650.0	132.85	2.08598E+05	705.45	-9.55397E+05	30.245
1700.0	132.86	2.15241E+05	709.42	-9.90770E+05	30.442
1750.0	132.87	2.21884E+05	713.27	-1.02634E+06	30.634
1800.0	132.88	2.28528E+05	717.01	-1.06209E+06	30.820
1850.0	132.89	2.35172E+05	720.65	-1.09804E+06	31.002
1900.0	132.90	2.41816E+05	724.20	-1.13416E+06	31.179
1950.0	132.90	2.48461E+05	727.65	-1.17046E+06	31.352
2000.0	132.91	2.55107E+05	731.01	-1.20692E+06	31.521
2050.0	132.92	2.61752E+05	734.30	-1.24356E+06	31.685
2100.0	132.92	2.68398E+05	737.50	-1.28035E+06	31.846
2150.0	132.93	2.75045E+05	740.63	-1.31730E+06	32.003
2200.0	132.93	2.81691E+05	743.68	-1.35441E+06	32.157
2250.0	132.94	2.88338E+05	746.67	-1.39167E+06	32.307
2300.0	132.94	2.94985E+05	749.59	-1.42908E+06	32.455
2350.0	132.95	3.01632E+05	752.45	-1.46663E+06	32.599
2400.0	132.95	3.08279E+05	755.25	-1.50432E+06	32.740
2450.0	132.95	3.14927E+05	757.99	-1.54215E+06	32.878
2500.0	132.95	3.21575E+05	760.68	-1.58012E+06	33.014
2550.0	132.96	3.28222E+05	763.31	-1.61822E+06	33.147
2600.0	132.96	3.34870E+05	765.89	-1.65645E+06	33.278
2650.0	132.96	3.41518E+05	768.43	-1.69481E+06	33.406
2700.0	132.96	3.48166E+05	770.91	-1.73329E+06	33.532
2750.0	132.96	3.54814E+05	773.35	-1.77190E+06	33.655
2800.0	132.96	3.61462E+05	775.75	-1.81063E+06	33.777
2850.0	132.96	3.68111E+05	778.10	-1.84947E+06	33.896
2900.0	132.96	3.74759E+05	780.41	-1.88844E+06	34.014
2950.0	132.96	3.81407E+05	782.68	-1.92751E+06	34.129
3000.0	132.96	3.88055E+05	784.92	-1.96670E+06	34.242

As2I6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	176.75	418.40	606.08	-1.80284E+05	31.584
300.00	176.82	745.46	607.17	-1.81406E+05	31.585
350.00	178.41	9629.4	634.56	-2.12466E+05	31.708
400.00	179.45	18578.	658.45	-2.44804E+05	31.967
450.00	180.16	27569.	679.63	-2.78266E+05	32.299
500.00	180.67	36590.	698.64	-3.12731E+05	32.670
550.00	181.05	45633.	715.88	-3.48101E+05	33.059
600.00	181.34	54693.	731.65	-3.84295E+05	33.455
650.00	181.56	63766.	746.17	-4.21245E+05	33.851
700.00	181.74	72849.	759.63	-4.58894E+05	34.242
750.00	181.89	81939.	772.18	-4.97193E+05	34.627
800.00	182.01	91037.	783.92	-5.36098E+05	35.003
850.00	182.11	1.00140E+05	794.96	-5.75573E+05	35.370
900.00	182.19	1.09247E+05	805.37	-6.15583E+05	35.727
950.00	182.27	1.18359E+05	815.22	-6.56100E+05	36.074
1000.0	182.33	1.27474E+05	824.57	-6.97097E+05	36.412
1050.0	182.38	1.36592E+05	833.47	-7.38550E+05	36.740
1100.0	182.43	1.45712E+05	841.95	-7.80437E+05	37.059
1150.0	182.47	1.54834E+05	850.06	-8.22739E+05	37.369
1200.0	182.51	1.63959E+05	857.83	-8.65438E+05	37.671
1250.0	182.54	1.73085E+05	865.28	-9.08517E+05	37.964
1300.0	182.57	1.82213E+05	872.44	-9.51961E+05	38.249
1350.0	182.59	1.91342E+05	879.33	-9.95756E+05	38.527
1400.0	182.62	2.00472E+05	885.97	-1.03989E+06	38.798
1450.0	182.64	2.09603E+05	892.38	-1.08435E+06	39.062
1500.0	182.66	2.18736E+05	898.57	-1.12912E+06	39.319
1550.0	182.68	2.27869E+05	904.56	-1.17420E+06	39.569
1600.0	182.69	2.37003E+05	910.36	-1.21958E+06	39.814
1650.0	182.71	2.46138E+05	915.98	-1.26524E+06	40.053
1700.0	182.72	2.55274E+05	921.44	-1.31117E+06	40.286
1750.0	182.73	2.64410E+05	926.74	-1.35738E+06	40.515
1800.0	182.74	2.73547E+05	931.88	-1.40384E+06	40.737
1850.0	182.75	2.82685E+05	936.89	-1.45056E+06	40.956
1900.0	182.76	2.91823E+05	941.77	-1.49753E+06	41.169
1950.0	182.77	3.00961E+05	946.51	-1.54474E+06	41.378
2000.0	182.78	3.10100E+05	951.14	-1.59218E+06	41.582
2050.0	182.79	3.19239E+05	955.65	-1.63985E+06	41.783
2100.0	182.79	3.28378E+05	960.06	-1.68774E+06	41.979
2150.0	182.80	3.37518E+05	964.36	-1.73586E+06	42.172
2200.0	182.81	3.46659E+05	968.56	-1.78418E+06	42.361
2250.0	182.81	3.55799E+05	972.67	-1.83271E+06	42.546
2300.0	182.82	3.64940E+05	976.69	-1.88144E+06	42.728
2350.0	182.82	3.74081E+05	980.62	-1.93038E+06	42.906
2400.0	182.82	3.83222E+05	984.47	-1.97950E+06	43.082
2450.0	182.83	3.92363E+05	988.24	-2.02882E+06	43.254
2500.0	182.83	4.01504E+05	991.93	-2.07833E+06	43.423
2550.0	182.83	4.10646E+05	995.55	-2.12801E+06	43.590
2600.0	182.84	4.19788E+05	999.10	-2.17788E+06	43.753
2650.0	182.84	4.28929E+05	1002.6	-2.22792E+06	43.914
2700.0	182.84	4.38071E+05	1006.0	-2.27814E+06	44.072
2750.0	182.84	4.47213E+05	1009.4	-2.32852E+06	44.228
2800.0	182.84	4.56355E+05	1012.7	-2.37907E+06	44.381
2850.0	182.84	4.65498E+05	1015.9	-2.42979E+06	44.532
2900.0	182.84	4.74640E+05	1019.1	-2.48066E+06	44.680
2950.0	182.84	4.83782E+05	1022.2	-2.53169E+06	44.827
3000.0	182.84	4.92924E+05	1025.3	-2.58288E+06	44.971

AsIn

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	47.851	-57739.	74.684	-80006.	14.016
300.00	47.865	-57651.	74.980	-80145.	13.954
350.00	48.242	-55248.	82.387	-84083.	12.548
400.00	48.618	-52827.	88.853	-88368.	11.539
450.00	48.995	-50386.	94.601	-92957.	10.790
500.00	49.371	-47927.	99.783	-97818.	10.219
550.00	49.748	-45449.	104.51	-1.02927E+05	9.7750
600.00	50.124	-42952.	108.85	-1.08263E+05	9.4249
650.00	50.501	-40437.	112.88	-1.13807E+05	9.1454
700.00	50.877	-37902.	116.63	-1.19546E+05	8.9204
750.00	51.254	-35349.	120.16	-1.25467E+05	8.7381
800.00	51.631	-32777.	123.48	-1.31558E+05	8.5897
850.00	52.007	-30186.	126.62	-1.37811E+05	8.4686
900.00	52.384	-27576.	129.60	-1.44218E+05	8.3700
950.00	52.760	-24947.	132.44	-1.50769E+05	8.2897
1000.0	53.137	-22300.	135.16	-1.57460E+05	8.2246
1050.0	53.513	-19634.	137.76	-1.64283E+05	8.1724
1100.0	53.890	-16949.	140.26	-1.71234E+05	8.1310
1150.0	54.266	-14245.	142.66	-1.78308E+05	8.0988
1200.0	54.643	-11522.	144.98	-1.85499E+05	8.0744
1215.0	54.756	-10702.	145.66	-1.87679E+05	8.0684
1215.0	59.831	66284.	209.02	-1.87679E+05	8.0684
1250.0	59.831	68378.	210.72	-1.95025E+05	8.1494
1300.0	59.831	71370.	213.07	-2.05620E+05	8.2617
1350.0	59.831	74361.	215.33	-2.16330E+05	8.3701
1400.0	59.831	77353.	217.50	-2.27151E+05	8.4749
1450.0	59.831	80344.	219.60	-2.38079E+05	8.5763
1500.0	59.831	83336.	221.63	-2.49110E+05	8.6746
1550.0	59.831	86327.	223.59	-2.60241E+05	8.7698
1600.0	59.831	89319.	225.49	-2.71468E+05	8.8623
1650.0	59.831	92311.	227.33	-2.82789E+05	8.9521
1700.0	59.831	95302.	229.12	-2.94201E+05	9.0395
1750.0	59.831	98294.	230.85	-3.05700E+05	9.1244
1800.0	59.831	1.01285E+05	232.54	-3.17285E+05	9.2071

AsInO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.32	-9.78303E+05	154.85	-1.02447E+06	179.48
300.00	119.64	-9.78082E+05	155.59	-1.02476E+06	178.42
350.00	126.77	-9.71912E+05	174.60	-1.03302E+06	154.17
400.00	132.02	-9.65436E+05	191.88	-1.04219E+06	136.09
450.00	136.19	-9.58728E+05	207.68	-1.05218E+06	122.13
500.00	139.67	-9.51829E+05	222.22	-1.06294E+06	111.04
550.00	142.72	-9.44767E+05	235.67	-1.07439E+06	102.03
600.00	145.47	-9.37562E+05	248.21	-1.08649E+06	94.585
650.00	148.00	-9.30224E+05	259.96	-1.09920E+06	88.330
700.00	150.38	-9.22764E+05	271.01	-1.11247E+06	83.012
750.00	152.64	-9.15188E+05	281.47	-1.12629E+06	78.440
800.00	154.82	-9.07501E+05	291.39	-1.14061E+06	74.472

AsK3O4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	172.29	-1.66875E+06	237.82	-1.73965E+06	304.77
300.00	172.51	-1.66843E+06	238.89	-1.74009E+06	302.97
350.00	177.93	-1.65966E+06	265.90	-1.75273E+06	261.57
400.00	182.53	-1.65065E+06	289.97	-1.76663E+06	230.69
450.00	186.65	-1.64142E+06	311.71	-1.78169E+06	206.81
500.00	190.48	-1.63199E+06	331.57	-1.79777E+06	187.81
550.00	194.11	-1.62237E+06	349.90	-1.81482E+06	172.35
600.00	197.60	-1.61258E+06	366.94	-1.83274E+06	159.55
650.00	201.01	-1.60261E+06	382.89	-1.85149E+06	148.78
700.00	204.34	-1.59248E+06	397.91	-1.87102E+06	139.61

AsLaO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	117.89	-1.55687E+06	163.47	-1.60560E+06	281.29
300.00	118.24	-1.55665E+06	164.20	-1.60591E+06	279.61
350.00	126.11	-1.55053E+06	183.05	-1.61460E+06	240.96
400.00	131.83	-1.54407E+06	200.28	-1.62419E+06	212.09
450.00	136.30	-1.53736E+06	216.08	-1.63460E+06	189.73
500.00	140.00	-1.53045E+06	230.64	-1.64577E+06	171.93
550.00	143.19	-1.52337E+06	244.13	-1.65765E+06	157.43
600.00	146.04	-1.51614E+06	256.72	-1.67017E+06	145.40
650.00	148.64	-1.50877E+06	268.51	-1.68330E+06	135.27
700.00	151.07	-1.50128E+06	279.62	-1.69701E+06	126.63
750.00	153.37	-1.49367E+06	290.12	-1.71126E+06	119.18

AsLi3O4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	161.84	-1.70239E+06	173.13	-1.75401E+06	307.29
300.00	162.15	-1.70209E+06	174.14	-1.75433E+06	305.45
350.00	169.18	-1.69379E+06	199.69	-1.76368E+06	263.21
400.00	174.64	-1.68519E+06	222.65	-1.77425E+06	231.69
450.00	179.17	-1.67635E+06	243.48	-1.78591E+06	207.30
500.00	183.13	-1.66729E+06	262.57	-1.79857E+06	187.89
550.00	186.73	-1.65804E+06	280.20	-1.81215E+06	172.10
600.00	190.06	-1.64862E+06	296.59	-1.82657E+06	159.01
650.00	193.22	-1.63904E+06	311.93	-1.84179E+06	148.00
700.00	196.25	-1.62930E+06	326.36	-1.85775E+06	138.62
750.00	199.18	-1.61941E+06	340.00	-1.87441E+06	130.54
800.00	202.04	-1.60938E+06	352.94	-1.89174E+06	123.51
850.00	204.85	-1.59921E+06	365.28	-1.90969E+06	117.35
900.00	207.61	-1.58890E+06	377.07	-1.92826E+06	111.91
950.00	210.33	-1.57845E+06	388.36	-1.94739E+06	107.07
1000.0	213.03	-1.56786E+06	399.22	-1.96708E+06	102.75

As2Mg3O8

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	236.31	-3.05976E+06	225.10	-3.12687E+06	547.80
300.00	237.19	-3.05932E+06	226.56	-3.12729E+06	544.50
350.00	256.56	-3.04695E+06	264.68	-3.13958E+06	468.55
400.00	270.08	-3.03376E+06	299.87	-3.15371E+06	411.82
450.00	280.20	-3.01999E+06	332.29	-3.16952E+06	367.90
500.00	288.21	-3.00578E+06	362.24	-3.18690E+06	332.92
550.00	294.85	-2.99119E+06	390.03	-3.20571E+06	304.45
600.00	300.55	-2.97631E+06	415.94	-3.22587E+06	280.83
650.00	305.58	-2.96115E+06	440.20	-3.24728E+06	260.95
700.00	310.13	-2.94576E+06	463.01	-3.26986E+06	243.99
750.00	314.33	-2.93014E+06	484.55	-3.29356E+06	229.38
800.00	318.26	-2.91433E+06	504.97	-3.31830E+06	216.66
850.00	321.98	-2.89832E+06	524.37	-3.34404E+06	205.49
900.00	325.54	-2.88213E+06	542.88	-3.37072E+06	195.63
950.00	328.97	-2.86577E+06	560.57	-3.39831E+06	186.85
1000.0	332.29	-2.84924E+06	577.53	-3.42677E+06	178.99
1050.0	335.53	-2.83254E+06	593.82	-3.45605E+06	171.92
1100.0	338.70	-2.81568E+06	609.51	-3.48614E+06	165.54
1150.0	341.81	-2.79867E+06	624.63	-3.51700E+06	159.74
1200.0	344.87	-2.78150E+06	639.24	-3.54859E+06	154.46

As2Mn3O8

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	261.79	-2.36626E+06	319.62	-2.46155E+06	431.24
300.00	262.39	-2.36578E+06	321.24	-2.46215E+06	428.69
350.00	276.10	-2.35230E+06	362.77	-2.47927E+06	370.00
400.00	286.36	-2.33822E+06	400.34	-2.49836E+06	326.24
450.00	294.61	-2.32369E+06	434.56	-2.51924E+06	292.42
500.00	301.63	-2.30878E+06	465.97	-2.54177E+06	265.53
550.00	307.83	-2.29354E+06	495.01	-2.56580E+06	243.67
600.00	313.48	-2.27801E+06	522.04	-2.59124E+06	225.58
650.00	318.73	-2.26220E+06	547.35	-2.61798E+06	210.38
700.00	323.71	-2.24614E+06	571.15	-2.64595E+06	197.44
750.00	328.47	-2.22983E+06	593.65	-2.67507E+06	186.30
800.00	333.08	-2.21329E+06	614.99	-2.70529E+06	176.63

AsMoO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	120.06	-9.10689E+05	163.01	-9.59290E+05	168.06
300.00	120.37	-9.10467E+05	163.75	-9.59592E+05	167.08
350.00	127.53	-9.04259E+05	182.88	-9.68266E+05	144.50
400.00	132.81	-8.97744E+05	200.27	-9.77851E+05	127.69
450.00	137.00	-8.90995E+05	216.16	-9.88268E+05	114.71
500.00	140.52	-8.84055E+05	230.78	-9.99446E+05	104.41
550.00	143.58	-8.76951E+05	244.32	-1.01133E+06	96.045
600.00	146.35	-8.69702E+05	256.94	-1.02386E+06	89.133
650.00	148.90	-8.62320E+05	268.75	-1.03701E+06	83.333
700.00	151.30	-8.54814E+05	279.88	-1.05073E+06	78.404
750.00	153.59	-8.47191E+05	290.39	-1.06499E+06	74.170

AsN<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	30.446	2.33423E+05	222.88	1.66972E+05	-29.252
300.00	30.478	2.33479E+05	223.07	1.66560E+05	-29.000
350.00	31.288	2.35024E+05	227.83	1.55285E+05	-23.174
400.00	31.997	2.36606E+05	232.05	1.43786E+05	-18.776
450.00	32.627	2.38222E+05	235.86	1.32087E+05	-15.332
500.00	33.193	2.39868E+05	239.32	1.20206E+05	-12.558
550.00	33.700	2.41541E+05	242.51	1.08159E+05	-10.272
600.00	34.153	2.43237E+05	245.46	95959.	-8.3537
650.00	34.554	2.44955E+05	248.21	83616.	-6.7193
700.00	34.905	2.46692E+05	250.79	71140.	-5.3084
750.00	35.208	2.48445E+05	253.21	58540.	-4.0770
800.00	35.461	2.50212E+05	255.49	45822.	-2.9918
850.00	35.712	2.51991E+05	257.65	32993.	-2.0275
900.00	35.922	2.53782E+05	259.69	20059.	-1.1642
950.00	36.101	2.55583E+05	261.64	7025.4	-0.38628
1000.0	36.255	2.57392E+05	263.50	-6103.3	0.31880
1050.0	36.388	2.59208E+05	265.27	-19323.	0.96123
1100.0	36.505	2.61031E+05	266.96	-32629.	1.5494
1150.0	36.608	2.62858E+05	268.59	-46018.	2.0901
1200.0	36.699	2.64691E+05	270.15	-59487.	2.5893
1250.0	36.781	2.66528E+05	271.65	-73032.	3.0517
1300.0	36.854	2.68369E+05	273.09	-86650.	3.4816
1350.0	36.921	2.70213E+05	274.48	-1.00340E+05	3.8823
1400.0	36.982	2.72061E+05	275.83	-1.14098E+05	4.2569
1450.0	37.039	2.73912E+05	277.13	-1.27922E+05	4.6081
1500.0	37.091	2.75765E+05	278.38	-1.41810E+05	4.9381
1550.0	37.139	2.77621E+05	279.60	-1.55760E+05	5.2489
1600.0	37.185	2.79479E+05	280.78	-1.69769E+05	5.5423
1650.0	37.228	2.81339E+05	281.92	-1.83837E+05	5.8196
1700.0	37.269	2.83202E+05	283.04	-1.97961E+05	6.0825
1750.0	37.307	2.85066E+05	284.12	-2.12140E+05	6.3319
1800.0	37.345	2.86932E+05	285.17	-2.26373E+05	6.5690
1850.0	37.380	2.88800E+05	286.19	-2.40657E+05	6.7948
1900.0	37.415	2.90670E+05	287.19	-2.54991E+05	7.0100
1950.0	37.448	2.92542E+05	288.16	-2.69375E+05	7.2156
2000.0	37.481	2.94415E+05	289.11	-2.83807E+05	7.4121
2050.0	37.513	2.96290E+05	290.04	-2.98286E+05	7.6002
2100.0	37.545	2.98166E+05	290.94	-3.12811E+05	7.7805
2150.0	37.576	3.00044E+05	291.83	-3.27380E+05	7.9536
2200.0	37.606	3.01924E+05	292.69	-3.41993E+05	8.1197
2250.0	37.636	3.03805E+05	293.53	-3.56649E+05	8.2795
2300.0	37.666	3.05688E+05	294.36	-3.71346E+05	8.4333
2350.0	37.696	3.07572E+05	295.17	-3.86084E+05	8.5815
2400.0	37.726	3.09457E+05	295.97	-4.00863E+05	8.7243
2450.0	37.756	3.11344E+05	296.74	-4.15681E+05	8.8622
2500.0	37.786	3.13233E+05	297.51	-4.30537E+05	8.9954
2550.0	37.816	3.15123E+05	298.26	-4.45431E+05	9.1241
2600.0	37.846	3.17014E+05	298.99	-4.60363E+05	9.2486
2650.0	37.876	3.18907E+05	299.71	-4.75330E+05	9.3691
2700.0	37.906	3.20802E+05	300.42	-4.90334E+05	9.4858
2750.0	37.937	3.22698E+05	301.12	-5.05372E+05	9.5990
2800.0	37.967	3.24596E+05	301.80	-5.20445E+05	9.7088
2850.0	37.999	3.26495E+05	302.47	-5.35552E+05	9.8153
2900.0	38.030	3.28395E+05	303.13	-5.50692E+05	9.9188
2950.0	38.061	3.30298E+05	303.78	-5.65865E+05	10.019
3000.0	38.093	3.32202E+05	304.42	-5.81070E+05	10.117

AsNa3O4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	170.13	-1.54000E+06	217.95	-1.60498E+06	281.18
300.00	170.37	-1.53969E+06	219.00	-1.60539E+06	279.52
350.00	176.04	-1.53102E+06	245.70	-1.61702E+06	241.32
400.00	180.72	-1.52210E+06	269.52	-1.62991E+06	212.84
450.00	184.82	-1.51296E+06	291.05	-1.64393E+06	190.82
500.00	188.57	-1.50362E+06	310.72	-1.65898E+06	173.31
550.00	192.08	-1.49411E+06	328.86	-1.67498E+06	159.07
600.00	195.43	-1.48442E+06	345.72	-1.69185E+06	147.28
650.00	198.68	-1.47456E+06	361.49	-1.70953E+06	137.38
700.00	201.83	-1.46455E+06	376.33	-1.72798E+06	128.94
750.00	204.93	-1.45438E+06	390.36	-1.74715E+06	121.68

As8Ni11

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	552.00	-7.74036E+05	468.88	-9.13833E+05	160.10
300.00	553.05	-7.73014E+05	472.30	-9.14703E+05	159.26
350.00	576.14	-7.44747E+05	559.40	-9.40537E+05	140.36
400.00	592.36	-7.15513E+05	637.45	-9.70492E+05	126.73
450.00	604.60	-6.85576E+05	707.96	-1.00416E+06	116.56
500.00	614.36	-6.55094E+05	772.18	-1.04118E+06	108.77
550.00	622.50	-6.24168E+05	831.12	-1.08129E+06	102.69
600.00	629.54	-5.92863E+05	885.60	-1.12422E+06	97.870
650.00	635.80	-5.61227E+05	936.24	-1.16978E+06	94.002
700.00	641.50	-5.29292E+05	983.57	-1.21779E+06	90.870
750.00	646.79	-4.97083E+05	1028.0	-1.26809E+06	88.315
800.00	651.75	-4.64619E+05	1069.9	-1.32055E+06	86.221
850.00	656.47	-4.31912E+05	1109.6	-1.37504E+06	84.498
900.00	661.00	-3.98975E+05	1147.2	-1.43147E+06	83.078
950.00	665.38	-3.65814E+05	1183.1	-1.48974E+06	81.909
1000.0	669.64	-3.32438E+05	1217.3	-1.54975E+06	80.949
1050.0	673.79	-2.98852E+05	1250.1	-1.61144E+06	80.163
1100.0	677.87	-2.65060E+05	1281.5	-1.67474E+06	79.525

As2Ni3O8

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	265.41	-1.84924E+06	344.80	-1.95205E+06	341.98
300.00	265.99	-1.84875E+06	346.45	-1.95269E+06	339.98
350.00	279.09	-1.83511E+06	388.49	-1.97108E+06	294.16
400.00	289.05	-1.82090E+06	426.43	-1.99147E+06	260.05
450.00	297.18	-1.80623E+06	460.96	-2.01366E+06	233.73
500.00	304.18	-1.79120E+06	492.64	-2.03752E+06	212.85
550.00	310.44	-1.77583E+06	521.93	-2.06289E+06	195.91
600.00	316.19	-1.76016E+06	549.19	-2.08967E+06	181.92
650.00	321.59	-1.74421E+06	574.71	-2.11778E+06	170.18
700.00	326.73	-1.72801E+06	598.74	-2.14712E+06	160.22
750.00	331.67	-1.71155E+06	621.45	-2.17763E+06	151.66
800.00	336.48	-1.69484E+06	643.01	-2.20925E+06	144.25

AsO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.329	43806.	230.40	-24888.	4.3602
300.00	32.394	43866.	230.60	-25315.	4.4076
350.00	33.961	45526.	235.72	-36975.	5.5181
400.00	35.235	47257.	240.34	-48878.	6.3827
450.00	36.282	49046.	244.55	-61002.	7.0808
500.00	37.134	50882.	248.42	-73328.	7.6603
550.00	37.811	52756.	251.99	-85839.	8.1521
600.00	38.326	54660.	255.31	-98523.	8.5769
650.00	38.631	56585.	258.39	-1.11366E+05	8.9492
700.00	38.846	58522.	261.26	-1.24358E+05	9.2795
750.00	38.995	60468.	263.94	-1.37488E+05	9.5753
800.00	39.096	62421.	266.46	-1.50749E+05	9.8427
850.00	39.159	64377.	268.83	-1.64132E+05	10.086
900.00	39.196	66336.	271.07	-1.77630E+05	10.309
950.00	39.211	68297.	273.19	-1.91238E+05	10.515
1000.0	39.210	70257.	275.21	-2.04948E+05	10.705
1050.0	39.197	72217.	277.12	-2.18756E+05	10.882
1100.0	39.175	74177.	278.94	-2.32658E+05	11.048
1150.0	39.147	76135.	280.68	-2.46649E+05	11.203
1200.0	39.113	78091.	282.35	-2.60725E+05	11.349
1250.0	39.076	80046.	283.94	-2.74883E+05	11.486
1300.0	39.037	81999.	285.47	-2.89118E+05	11.617
1350.0	38.996	83950.	286.95	-3.03429E+05	11.740
1400.0	38.955	85898.	288.36	-3.17812E+05	11.857
1450.0	38.915	87845.	289.73	-3.32265E+05	11.969
1500.0	38.875	89790.	291.05	-3.46785E+05	12.076
1550.0	38.837	91733.	292.32	-3.61369E+05	12.178
1600.0	38.801	93674.	293.56	-3.76016E+05	12.275
1650.0	38.767	95613.	294.75	-3.90724E+05	12.369
1700.0	38.735	97550.	295.91	-4.05491E+05	12.459
1750.0	38.706	99486.	297.03	-4.20314E+05	12.545
1800.0	38.680	1.01421E+05	298.12	-4.35193E+05	12.629
1850.0	38.658	1.03355E+05	299.18	-4.50126E+05	12.709
1900.0	38.638	1.05287E+05	300.21	-4.65110E+05	12.786
1950.0	38.622	1.07218E+05	301.21	-4.80146E+05	12.861
2000.0	38.609	1.09149E+05	302.19	-4.95231E+05	12.934
2050.0	38.601	1.11079E+05	303.14	-5.10365E+05	13.004
2100.0	38.595	1.13009E+05	304.07	-5.25545E+05	13.072
2150.0	38.594	1.14939E+05	304.98	-5.40772E+05	13.138
2200.0	38.597	1.16869E+05	305.87	-5.56043E+05	13.202
2250.0	38.604	1.18799E+05	306.74	-5.71358E+05	13.264
2300.0	38.614	1.20729E+05	307.59	-5.86716E+05	13.324
2350.0	38.616	1.22660E+05	308.42	-6.02116E+05	13.383
2400.0	38.618	1.24591E+05	309.23	-6.17558E+05	13.440
2450.0	38.621	1.26522E+05	310.02	-6.33039E+05	13.496
2500.0	38.624	1.28453E+05	310.81	-6.48560E+05	13.551
2550.0	38.627	1.30384E+05	311.57	-6.64119E+05	13.604
2600.0	38.630	1.32316E+05	312.32	-6.79717E+05	13.655
2650.0	38.634	1.34247E+05	313.06	-6.95351E+05	13.706
2700.0	38.639	1.36179E+05	313.78	-7.11022E+05	13.755
2750.0	38.645	1.38111E+05	314.49	-7.26729E+05	13.803
2800.0	38.651	1.40044E+05	315.18	-7.42470E+05	13.851
2850.0	38.658	1.41976E+05	315.87	-7.58247E+05	13.897
2900.0	38.666	1.43909E+05	316.54	-7.74057E+05	13.942
2950.0	38.675	1.45843E+05	317.20	-7.89901E+05	13.986
3000.0	38.684	1.47777E+05	317.85	-8.05777E+05	14.029

AsO2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	43.102	-59258.	268.45	-1.39298E+05	24.404
300.00	43.186	-59178.	268.72	-1.39794E+05	24.340
350.00	45.223	-56966.	275.54	-1.53404E+05	22.894
400.00	46.905	-54662.	281.69	-1.67337E+05	21.851
450.00	48.336	-52280.	287.30	-1.81564E+05	21.075
500.00	49.572	-49831.	292.46	-1.96059E+05	20.482
550.00	50.646	-47325.	297.23	-2.10803E+05	20.020
600.00	51.575	-44769.	301.68	-2.25777E+05	19.655
650.00	52.373	-42170.	305.84	-2.40966E+05	19.364
700.00	53.044	-39534.	309.75	-2.56357E+05	19.129
750.00	53.654	-36866.	313.43	-2.71937E+05	18.939
800.00	54.156	-34170.	316.91	-2.87696E+05	18.784
850.00	54.574	-31452.	320.20	-3.03625E+05	18.658
900.00	54.927	-28714.	323.33	-3.19714E+05	18.555
950.00	55.228	-25960.	326.31	-3.35956E+05	18.472
1000.0	55.486	-23192.	329.15	-3.52343E+05	18.404
1050.0	55.710	-20412.	331.86	-3.68869E+05	18.350
1100.0	55.907	-17622.	334.46	-3.85527E+05	18.307
1150.0	56.079	-14822.	336.95	-4.02313E+05	18.273
1200.0	56.232	-12014.	339.34	-4.19220E+05	18.248
1250.0	56.368	-9198.9	341.64	-4.36245E+05	18.229
1300.0	56.490	-6377.3	343.85	-4.53383E+05	18.217
1350.0	56.600	-3550.0	345.98	-4.70629E+05	18.209
1400.0	56.700	-717.48	348.04	-4.87980E+05	18.206
1450.0	56.790	2119.8	350.04	-5.05432E+05	18.207
1500.0	56.873	4961.4	351.96	-5.22982E+05	18.211
1550.0	56.948	7807.0	353.83	-5.40627E+05	18.219
1600.0	57.018	10656.	355.64	-5.58364E+05	18.228
1650.0	57.082	13509.	357.39	-5.76190E+05	18.240
1700.0	57.141	16364.	359.10	-5.94103E+05	18.254
1750.0	57.196	19223.	360.76	-6.12099E+05	18.270
1800.0	57.247	22084.	362.37	-6.30177E+05	18.287
1850.0	57.294	24947.	363.94	-6.48335E+05	18.305
1900.0	57.338	27813.	365.46	-6.66570E+05	18.325
1950.0	57.380	30681.	366.95	-6.84881E+05	18.345
2000.0	57.419	33551.	368.41	-7.03265E+05	18.367
2050.0	57.456	36423.	369.83	-7.21721E+05	18.389
2100.0	57.490	39297.	371.21	-7.40247E+05	18.412
2150.0	57.522	42172.	372.56	-7.58842E+05	18.436
2200.0	57.553	45049.	373.89	-7.77503E+05	18.460
2250.0	57.582	47927.	375.18	-7.96230E+05	18.484
2300.0	57.609	50807.	376.45	-8.15021E+05	18.509
2350.0	57.635	53688.	377.69	-8.33874E+05	18.534
2400.0	57.660	56570.	378.90	-8.52789E+05	18.560
2450.0	57.683	59454.	380.09	-8.71764E+05	18.586
2500.0	57.705	62339.	381.25	-8.90798E+05	18.612
2550.0	57.726	65224.	382.40	-9.09889E+05	18.638
2600.0	57.746	68111.	383.52	-9.29037E+05	18.664
2650.0	57.765	70999.	384.62	-9.48240E+05	18.690
2700.0	57.783	73888.	385.70	-9.67498E+05	18.717
2750.0	57.801	76777.	386.76	-9.86810E+05	18.743
2800.0	57.817	79668.	387.80	-1.00617E+06	18.770
2850.0	57.833	82559.	388.82	-1.02559E+06	18.796
2900.0	57.847	85451.	389.83	-1.04506E+06	18.823
2950.0	57.862	88344.	390.82	-1.06457E+06	18.850
3000.0	57.875	91237.	391.79	-1.08414E+06	18.876

As₂O₃<ARSENOLITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	96.885	-6.57700E+05	107.38	-6.89715E+05	120.83
300.00	97.159	-6.57521E+05	107.98	-6.89915E+05	120.12
350.00	103.86	-6.52489E+05	123.48	-6.95707E+05	103.83
400.00	109.18	-6.47158E+05	137.71	-7.02241E+05	91.701
450.00	113.11	-6.41595E+05	150.81	-7.09459E+05	82.350
500.00	115.66	-6.35870E+05	162.87	-7.17305E+05	74.934

As2O3<CLAUDETITE>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	110.83	-6.53900E+05	122.53	-6.90432E+05	120.96
300.00	111.21	-6.53695E+05	123.22	-6.90660E+05	120.25
350.00	118.71	-6.47928E+05	140.98	-6.97271E+05	104.06
400.00	122.85	-6.41879E+05	157.13	-7.04731E+05	92.026
450.00	125.20	-6.35672E+05	171.75	-7.12959E+05	82.756
500.00	126.58	-6.29375E+05	185.02	-7.21883E+05	75.413
550.00	127.45	-6.23023E+05	197.12	-7.31441E+05	69.465
587.00	127.95	-6.18298E+05	205.44	-7.38890E+05	65.749
587.00	150.00	-6.00298E+05	236.10	-7.38890E+05	65.749
600.00	150.00	-5.98348E+05	239.39	-7.41981E+05	64.594
650.00	150.00	-5.90848E+05	251.39	-7.54254E+05	60.611
700.00	150.00	-5.83348E+05	262.51	-7.67105E+05	57.241
750.00	150.00	-5.75848E+05	272.86	-7.80492E+05	54.357
800.00	150.00	-5.68348E+05	282.54	-7.94380E+05	51.866
850.00	150.00	-5.60848E+05	291.63	-8.08737E+05	49.698
900.00	150.00	-5.53348E+05	300.21	-8.23535E+05	47.795
950.00	150.00	-5.45848E+05	308.32	-8.38750E+05	46.117
1000.0	150.00	-5.38348E+05	316.01	-8.54359E+05	44.626
1050.0	150.00	-5.30848E+05	323.33	-8.70345E+05	43.296
1100.0	150.00	-5.23348E+05	330.31	-8.86687E+05	42.104
1150.0	150.00	-5.15848E+05	336.98	-9.03370E+05	41.031
1200.0	150.00	-5.08348E+05	343.36	-9.20380E+05	40.062
1250.0	150.00	-5.00848E+05	349.48	-9.37702E+05	39.183
1300.0	150.00	-4.93348E+05	355.37	-9.55324E+05	38.384
1350.0	150.00	-4.85848E+05	361.03	-9.73235E+05	37.656
1400.0	150.00	-4.78348E+05	366.48	-9.91423E+05	36.990
1450.0	150.00	-4.70848E+05	371.75	-1.00988E+06	36.379
1500.0	150.00	-4.63348E+05	376.83	-1.02859E+06	35.818

As2O5

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	116.53	-9.26000E+05	106.00	-9.57604E+05	167.76
300.00	117.06	-9.25784E+05	106.72	-9.57801E+05	166.76
350.00	128.94	-9.19616E+05	125.72	-9.63616E+05	143.81
400.00	137.49	-9.12945E+05	143.52	-9.70352E+05	126.71
450.00	144.12	-9.05898E+05	160.11	-9.77948E+05	113.51
500.00	149.54	-8.98553E+05	175.58	-9.86345E+05	103.04
550.00	154.18	-8.90957E+05	190.06	-9.95490E+05	94.541
600.00	158.29	-8.83144E+05	203.65	-1.00534E+06	87.520
650.00	162.01	-8.75135E+05	216.47	-1.01584E+06	81.632
700.00	165.47	-8.66947E+05	228.61	-1.02697E+06	76.632
750.00	168.72	-8.58591E+05	240.14	-1.03869E+06	72.339
800.00	171.82	-8.50077E+05	251.12	-1.05098E+06	68.620
850.00	174.81	-8.41411E+05	261.63	-1.06380E+06	65.371
900.00	177.69	-8.32598E+05	271.70	-1.07713E+06	62.514
950.00	180.51	-8.23642E+05	281.39	-1.09096E+06	59.984
1000.0	183.27	-8.14548E+05	290.72	-1.10527E+06	57.732
1003.0	183.43	-8.13998E+05	291.27	-1.10614E+06	57.604
1003.0	190.00	-7.53998E+05	351.09	-1.10614E+06	57.604
1050.0	190.00	-7.45068E+05	359.79	-1.12285E+06	55.857
1100.0	190.00	-7.35568E+05	368.63	-1.14106E+06	54.183
1150.0	190.00	-7.26068E+05	377.07	-1.15970E+06	52.674
1200.0	190.00	-7.16568E+05	385.16	-1.17876E+06	51.309
1250.0	190.00	-7.07068E+05	392.92	-1.19821E+06	50.069
1300.0	190.00	-6.97568E+05	400.37	-1.21805E+06	48.940
1350.0	190.00	-6.88068E+05	407.54	-1.23824E+06	47.909
1400.0	190.00	-6.78568E+05	414.45	-1.25879E+06	46.965
1450.0	190.00	-6.69068E+05	421.11	-1.27968E+06	46.098
1500.0	190.00	-6.59568E+05	427.56	-1.30090E+06	45.300
1550.0	190.00	-6.50068E+05	433.79	-1.32244E+06	44.565
1600.0	190.00	-6.40568E+05	439.82	-1.34428E+06	43.885
1650.0	190.00	-6.31068E+05	445.67	-1.36642E+06	43.256
1700.0	190.00	-6.21568E+05	451.34	-1.38884E+06	42.673
1750.0	190.00	-6.12068E+05	456.84	-1.41155E+06	42.131
1800.0	190.00	-6.02568E+05	462.20	-1.43452E+06	41.628
1850.0	190.00	-5.93068E+05	467.40	-1.45776E+06	41.159
1900.0	190.00	-5.83568E+05	472.47	-1.48126E+06	40.722
1950.0	190.00	-5.74068E+05	477.41	-1.50501E+06	40.314
2000.0	190.00	-5.64568E+05	482.22	-1.52900E+06	39.932
2050.0	190.00	-5.55068E+05	486.91	-1.55323E+06	39.576
2100.0	190.00	-5.45568E+05	491.49	-1.57769E+06	39.242
2150.0	190.00	-5.36068E+05	495.96	-1.60237E+06	38.929
2200.0	190.00	-5.26568E+05	500.32	-1.62728E+06	38.636
2250.0	190.00	-5.17068E+05	504.59	-1.65241E+06	38.360
2300.0	190.00	-5.07568E+05	508.77	-1.67774E+06	38.102
2350.0	190.00	-4.98068E+05	512.86	-1.70328E+06	37.859
2400.0	190.00	-4.88568E+05	516.86	-1.72902E+06	37.630
2450.0	190.00	-4.79068E+05	520.77	-1.75497E+06	37.415
2500.0	190.00	-4.69568E+05	524.61	-1.78110E+06	37.213
2550.0	190.00	-4.60068E+05	528.38	-1.80743E+06	37.023
2600.0	190.00	-4.50568E+05	532.07	-1.83394E+06	36.843
2650.0	190.00	-4.41068E+05	535.68	-1.86063E+06	36.674
2700.0	190.00	-4.31568E+05	539.24	-1.88750E+06	36.515
2750.0	190.00	-4.22068E+05	542.72	-1.91455E+06	36.365
2800.0	190.00	-4.12568E+05	546.15	-1.94178E+06	36.223
2850.0	190.00	-4.03068E+05	549.51	-1.96917E+06	36.090
2900.0	190.00	-3.93568E+05	552.81	-1.99673E+06	35.964
2950.0	190.00	-3.84068E+05	556.06	-2.02445E+06	35.845
3000.0	190.00	-3.74568E+05	559.25	-2.05233E+06	35.733

As4O6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	172.10	-1.19770E+06	408.50	-1.31949E+06	231.16
300.00	172.66	-1.19738E+06	409.56	-1.32025E+06	229.87
350.00	185.15	-1.18842E+06	437.18	-1.34143E+06	200.19
400.00	193.93	-1.17893E+06	462.51	-1.36393E+06	178.11
450.00	200.48	-1.16906E+06	485.74	-1.38764E+06	161.07
500.00	205.56	-1.15890E+06	507.14	-1.41247E+06	147.56
550.00	209.63	-1.14852E+06	526.93	-1.43833E+06	136.60
600.00	212.94	-1.13795E+06	545.32	-1.46514E+06	127.55
650.00	215.66	-1.12724E+06	562.47	-1.49284E+06	119.96
700.00	217.91	-1.11639E+06	578.54	-1.52137E+06	113.52
750.00	219.75	-1.10545E+06	593.64	-1.55068E+06	108.00
800.00	221.23	-1.09443E+06	607.87	-1.58072E+06	103.21
850.00	222.52	-1.08333E+06	621.32	-1.61145E+06	99.025
900.00	223.60	-1.07218E+06	634.07	-1.64284E+06	95.346
950.00	224.52	-1.06097E+06	646.19	-1.67485E+06	92.087
1000.0	225.30	-1.04973E+06	657.72	-1.70745E+06	89.186
1050.0	225.98	-1.03845E+06	668.73	-1.74061E+06	86.589
1100.0	226.56	-1.02713E+06	679.26	-1.77432E+06	84.253
1150.0	227.08	-1.01579E+06	689.34	-1.80853E+06	82.144
1200.0	227.53	-1.00442E+06	699.02	-1.84324E+06	80.232
1250.0	227.93	-9.93038E+05	708.31	-1.87843E+06	78.493
1300.0	228.28	-9.81633E+05	717.26	-1.91407E+06	76.906
1350.0	228.60	-9.70211E+05	725.88	-1.95015E+06	75.454
1400.0	228.88	-9.58773E+05	734.20	-1.98665E+06	74.121
1450.0	229.14	-9.47323E+05	742.23	-2.02356E+06	72.895
1500.0	229.37	-9.35860E+05	750.01	-2.06087E+06	71.764
1550.0	229.58	-9.24387E+05	757.53	-2.09856E+06	70.719
1600.0	229.77	-9.12903E+05	764.82	-2.13662E+06	69.752
1650.0	229.94	-9.01410E+05	771.90	-2.17504E+06	68.854
1700.0	230.10	-8.89909E+05	778.76	-2.21381E+06	68.020
1750.0	230.25	-8.78401E+05	785.43	-2.25291E+06	67.244
1800.0	230.38	-8.66885E+05	791.92	-2.29235E+06	66.520
1850.0	230.51	-8.55363E+05	798.24	-2.33210E+06	65.845
1900.0	230.62	-8.43834E+05	804.39	-2.37217E+06	65.214
1950.0	230.73	-8.32301E+05	810.38	-2.41254E+06	64.623
2000.0	230.83	-8.20762E+05	816.22	-2.45320E+06	64.069
2050.0	230.92	-8.09218E+05	821.92	-2.49416E+06	63.550
2100.0	231.01	-7.97670E+05	827.49	-2.53539E+06	63.063
2150.0	231.09	-7.86118E+05	832.92	-2.57690E+06	62.605
2200.0	231.16	-7.74561E+05	838.24	-2.61868E+06	62.174
2250.0	231.23	-7.63001E+05	843.43	-2.66072E+06	61.768
2300.0	231.30	-7.51438E+05	848.52	-2.70302E+06	61.386
2350.0	231.36	-7.39872E+05	853.49	-2.74557E+06	61.026
2400.0	231.42	-7.28302E+05	858.36	-2.78837E+06	60.686
2450.0	231.48	-7.16730E+05	863.13	-2.83141E+06	60.365
2500.0	231.53	-7.05155E+05	867.81	-2.87468E+06	60.062
2550.0	231.58	-6.93577E+05	872.40	-2.91819E+06	59.775
2600.0	231.62	-6.81997E+05	876.89	-2.96192E+06	59.504
2650.0	231.67	-6.70415E+05	881.31	-3.00588E+06	59.248
2700.0	231.71	-6.58830E+05	885.64	-3.05005E+06	59.005
2750.0	231.75	-6.47244E+05	889.89	-3.09444E+06	58.776
2800.0	231.79	-6.35655E+05	894.06	-3.13904E+06	58.558
2850.0	231.82	-6.24065E+05	898.17	-3.18384E+06	58.352
2900.0	231.86	-6.12473E+05	902.20	-3.22885E+06	58.156
2950.0	231.89	-6.00879E+05	906.16	-3.27406E+06	57.971
3000.0	231.92	-5.89284E+05	910.06	-3.31947E+06	57.796

As407<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	186.55	-1.29440E+06	438.61	-1.42517E+06	249.68
300.00	187.17	-1.29405E+06	439.77	-1.42598E+06	248.28
350.00	200.94	-1.28433E+06	469.72	-1.44873E+06	216.21
400.00	210.79	-1.27402E+06	497.23	-1.47291E+06	192.34
450.00	218.27	-1.26329E+06	522.51	-1.49841E+06	173.93
500.00	224.18	-1.25222E+06	545.82	-1.52513E+06	159.33
550.00	228.98	-1.24089E+06	567.42	-1.55297E+06	147.48
600.00	232.93	-1.22934E+06	587.52	-1.58185E+06	137.71
650.00	236.22	-1.21761E+06	606.30	-1.61170E+06	129.51
700.00	238.96	-1.20572E+06	623.91	-1.64246E+06	122.56
750.00	241.22	-1.19372E+06	640.47	-1.67407E+06	116.59
800.00	243.05	-1.18161E+06	656.10	-1.70649E+06	111.42
850.00	244.67	-1.16941E+06	670.89	-1.73967E+06	106.90
900.00	246.03	-1.15715E+06	684.91	-1.77357E+06	102.93
950.00	247.19	-1.14481E+06	698.24	-1.80815E+06	99.416
1000.0	248.17	-1.13243E+06	710.95	-1.84338E+06	96.286
1050.0	249.02	-1.12000E+06	723.08	-1.87923E+06	93.484
1100.0	249.76	-1.10753E+06	734.68	-1.91568E+06	90.966
1150.0	250.41	-1.09502E+06	745.80	-1.95269E+06	88.692
1200.0	250.98	-1.08249E+06	756.47	-1.99025E+06	86.631
1250.0	251.48	-1.06993E+06	766.72	-2.02833E+06	84.757
1300.0	251.93	-1.05734E+06	776.60	-2.06692E+06	83.048
1350.0	252.33	-1.04474E+06	786.11	-2.10599E+06	81.483
1400.0	252.69	-1.03211E+06	795.29	-2.14552E+06	80.048
1450.0	253.01	-1.01947E+06	804.17	-2.18551E+06	78.729
1500.0	253.31	-1.00681E+06	812.75	-2.22593E+06	77.512
1550.0	253.57	-9.94137E+05	821.06	-2.26678E+06	76.388
1600.0	253.82	-9.81452E+05	829.12	-2.30804E+06	75.348
1650.0	254.04	-9.68755E+05	836.93	-2.34969E+06	74.383
1700.0	254.24	-9.56048E+05	844.52	-2.39173E+06	73.487
1750.0	254.43	-9.43332E+05	851.89	-2.43414E+06	72.653
1800.0	254.60	-9.30606E+05	859.06	-2.47691E+06	71.876
1850.0	254.76	-9.17872E+05	866.04	-2.52004E+06	71.151
1900.0	254.91	-9.05130E+05	872.83	-2.56351E+06	70.474
1950.0	255.04	-8.92381E+05	879.46	-2.60732E+06	69.840
2000.0	255.17	-8.79626E+05	885.91	-2.65145E+06	69.247
2050.0	255.29	-8.66864E+05	892.22	-2.69591E+06	68.691
2100.0	255.40	-8.54097E+05	898.37	-2.74067E+06	68.169
2150.0	255.51	-8.41324E+05	904.38	-2.78574E+06	67.678
2200.0	255.60	-8.28546E+05	910.26	-2.83111E+06	67.217
2250.0	255.70	-8.15764E+05	916.00	-2.87677E+06	66.784
2300.0	255.78	-8.02977E+05	921.62	-2.92271E+06	66.375
2350.0	255.86	-7.90186E+05	927.12	-2.96893E+06	65.990
2400.0	255.94	-7.77391E+05	932.51	-3.01542E+06	65.627
2450.0	256.01	-7.64592E+05	937.79	-3.06218E+06	65.285
2500.0	256.08	-7.51790E+05	942.96	-3.10919E+06	64.961
2550.0	256.14	-7.38984E+05	948.03	-3.15647E+06	64.656
2600.0	256.20	-7.26175E+05	953.01	-3.20400E+06	64.367
2650.0	256.26	-7.13364E+05	957.89	-3.25177E+06	64.095
2700.0	256.32	-7.00549E+05	962.68	-3.29978E+06	63.837
2750.0	256.37	-6.87732E+05	967.38	-3.34804E+06	63.592
2800.0	256.42	-6.74912E+05	972.00	-3.39652E+06	63.361
2850.0	256.47	-6.62090E+05	976.54	-3.44523E+06	63.142
2900.0	256.51	-6.49266E+05	981.00	-3.49417E+06	62.935
2950.0	256.56	-6.36439E+05	985.39	-3.54333E+06	62.739
3000.0	256.60	-6.23610E+05	989.70	-3.59271E+06	62.553

As408<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	201.04	-1.37709E+06	459.82	-1.51419E+06	265.27
300.00	201.70	-1.37672E+06	461.07	-1.51504E+06	263.79
350.00	216.55	-1.36624E+06	493.34	-1.53891E+06	229.66
400.00	227.48	-1.35513E+06	523.00	-1.56433E+06	204.28
450.00	235.97	-1.34354E+06	550.30	-1.59117E+06	184.69
500.00	242.80	-1.33156E+06	575.53	-1.61933E+06	169.17
550.00	248.41	-1.31928E+06	598.94	-1.64870E+06	156.58
600.00	253.06	-1.30674E+06	620.77	-1.67919E+06	146.18
650.00	256.93	-1.29398E+06	641.18	-1.71075E+06	137.47
700.00	260.10	-1.28105E+06	660.34	-1.74329E+06	130.08
750.00	262.87	-1.26798E+06	678.38	-1.77676E+06	123.74
800.00	265.15	-1.25477E+06	695.42	-1.81111E+06	118.25
850.00	267.04	-1.24147E+06	711.56	-1.84629E+06	113.46
900.00	268.63	-1.22808E+06	726.87	-1.88225E+06	109.24
950.00	269.98	-1.21461E+06	741.43	-1.91896E+06	105.51
1000.0	271.14	-1.20108E+06	755.30	-1.95639E+06	102.19
1050.0	272.13	-1.18750E+06	768.56	-1.99448E+06	99.218
1100.0	273.00	-1.17387E+06	781.24	-2.03323E+06	96.548
1150.0	273.77	-1.16020E+06	793.39	-2.07260E+06	94.138
1200.0	274.44	-1.14649E+06	805.06	-2.11256E+06	91.955
1250.0	275.03	-1.13276E+06	816.27	-2.15310E+06	89.971
1300.0	275.56	-1.11899E+06	827.07	-2.19418E+06	88.161
1350.0	276.04	-1.10520E+06	837.48	-2.23580E+06	86.506
1400.0	276.47	-1.09139E+06	847.53	-2.27793E+06	84.988
1450.0	276.85	-1.07756E+06	857.23	-2.32055E+06	83.593
1500.0	277.20	-1.06370E+06	866.63	-2.36364E+06	82.307
1550.0	277.52	-1.04984E+06	875.72	-2.40720E+06	81.120
1600.0	277.82	-1.03595E+06	884.54	-2.45121E+06	80.022
1650.0	278.08	-1.02205E+06	893.09	-2.49565E+06	79.004
1700.0	278.33	-1.00814E+06	901.39	-2.54052E+06	78.059
1750.0	278.56	-9.94222E+05	909.47	-2.58579E+06	77.180
1800.0	278.77	-9.80289E+05	917.32	-2.63146E+06	76.361
1850.0	278.96	-9.66346E+05	924.96	-2.67752E+06	75.598
1900.0	279.14	-9.52393E+05	932.40	-2.72395E+06	74.885
1950.0	279.31	-9.38432E+05	939.65	-2.77075E+06	74.218
2000.0	279.47	-9.24462E+05	946.73	-2.81791E+06	73.594
2050.0	279.61	-9.10485E+05	953.63	-2.86542E+06	73.010
2100.0	279.75	-8.96501E+05	960.37	-2.91327E+06	72.462
2150.0	279.88	-8.82510E+05	966.95	-2.96146E+06	71.947
2200.0	280.00	-8.68513E+05	973.39	-3.00997E+06	71.464
2250.0	280.12	-8.54510E+05	979.68	-3.05879E+06	71.009
2300.0	280.23	-8.40501E+05	985.84	-3.10793E+06	70.582
2350.0	280.33	-8.26487E+05	991.87	-3.15737E+06	70.179
2400.0	280.42	-8.12469E+05	997.77	-3.20712E+06	69.799
2450.0	280.52	-7.98445E+05	1003.6	-3.25715E+06	69.442
2500.0	280.60	-7.84417E+05	1009.2	-3.30747E+06	69.104
2550.0	280.68	-7.70385E+05	1014.8	-3.35807E+06	68.786
2600.0	280.76	-7.56349E+05	1020.2	-3.40895E+06	68.485
2650.0	280.84	-7.42309E+05	1025.6	-3.46009E+06	68.201
2700.0	280.91	-7.28265E+05	1030.8	-3.51150E+06	67.932
2750.0	280.97	-7.14218E+05	1036.0	-3.56317E+06	67.679
2800.0	281.04	-7.00168E+05	1041.0	-3.61510E+06	67.439
2850.0	281.10	-6.86114E+05	1046.0	-3.66728E+06	67.212
2900.0	281.16	-6.72058E+05	1050.9	-3.71970E+06	66.997
2950.0	281.21	-6.57999E+05	1055.7	-3.77237E+06	66.794
3000.0	281.27	-6.43937E+05	1060.4	-3.82527E+06	66.602

As409<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	215.50	-1.44499E+06	474.85	-1.58657E+06	277.95
300.00	216.20	-1.44459E+06	476.19	-1.58745E+06	276.39
350.00	232.30	-1.43336E+06	510.79	-1.61213E+06	240.59
400.00	244.32	-1.42143E+06	542.63	-1.63848E+06	213.96
450.00	253.76	-1.40897E+06	571.97	-1.66635E+06	193.42
500.00	261.43	-1.39608E+06	599.12	-1.69564E+06	177.14
550.00	267.78	-1.38285E+06	624.34	-1.72623E+06	163.94
600.00	273.08	-1.36932E+06	647.88	-1.75805E+06	153.05
650.00	277.51	-1.35555E+06	669.92	-1.79100E+06	143.92
700.00	281.17	-1.34158E+06	690.62	-1.82502E+06	136.18
750.00	284.40	-1.32744E+06	710.13	-1.86004E+06	129.54
800.00	287.05	-1.31315E+06	728.58	-1.89601E+06	123.79
850.00	289.26	-1.29874E+06	746.05	-1.93288E+06	118.78
900.00	291.11	-1.28423E+06	762.63	-1.97060E+06	114.37
950.00	292.68	-1.26964E+06	778.42	-2.00913E+06	110.47
1000.0	294.03	-1.25497E+06	793.46	-2.04843E+06	107.00
1050.0	295.20	-1.24024E+06	807.84	-2.08847E+06	103.89
1100.0	296.22	-1.22545E+06	821.60	-2.12920E+06	101.10
1150.0	297.11	-1.21062E+06	834.78	-2.17062E+06	98.590
1200.0	297.89	-1.19574E+06	847.44	-2.21267E+06	96.313
1250.0	298.59	-1.18083E+06	859.62	-2.25535E+06	94.244
1300.0	299.21	-1.16588E+06	871.34	-2.29863E+06	92.358
1350.0	299.77	-1.15091E+06	882.65	-2.34248E+06	90.634
1400.0	300.27	-1.13591E+06	893.56	-2.38689E+06	89.054
1450.0	300.72	-1.12088E+06	904.10	-2.43183E+06	87.602
1500.0	301.13	-1.10584E+06	914.30	-2.47729E+06	86.265
1550.0	301.51	-1.09077E+06	924.18	-2.52325E+06	85.031
1600.0	301.85	-1.07569E+06	933.76	-2.56970E+06	83.890
1650.0	302.17	-1.06058E+06	943.06	-2.61663E+06	82.833
1700.0	302.46	-1.04547E+06	952.08	-2.66401E+06	81.853
1750.0	302.72	-1.03034E+06	960.85	-2.71183E+06	80.942
1800.0	302.97	-1.01520E+06	969.38	-2.76009E+06	80.094
1850.0	303.20	-1.00004E+06	977.69	-2.80876E+06	79.303
1900.0	303.41	-9.84877E+05	985.78	-2.85785E+06	78.566
1950.0	303.61	-9.69702E+05	993.66	-2.90734E+06	77.877
2000.0	303.80	-9.54516E+05	1001.3	-2.95721E+06	77.233
2050.0	303.97	-9.39322E+05	1008.9	-3.00747E+06	76.629
2100.0	304.14	-9.24119E+05	1016.2	-3.05810E+06	76.064
2150.0	304.29	-9.08909E+05	1023.3	-3.10909E+06	75.534
2200.0	304.43	-8.93691E+05	1030.3	-3.16043E+06	75.036
2250.0	304.57	-8.78465E+05	1037.2	-3.21212E+06	74.569
2300.0	304.70	-8.63234E+05	1043.9	-3.26414E+06	74.129
2350.0	304.82	-8.47996E+05	1050.4	-3.31650E+06	73.716
2400.0	304.93	-8.32752E+05	1056.8	-3.36918E+06	73.327
2450.0	305.04	-8.17503E+05	1063.1	-3.42218E+06	72.960
2500.0	305.14	-8.02248E+05	1069.3	-3.47550E+06	72.615
2550.0	305.24	-7.86988E+05	1075.3	-3.52911E+06	72.289
2600.0	305.34	-7.71724E+05	1081.3	-3.58303E+06	71.982
2650.0	305.42	-7.56455E+05	1087.1	-3.63724E+06	71.692
2700.0	305.51	-7.41182E+05	1092.8	-3.69173E+06	71.419
2750.0	305.59	-7.25904E+05	1098.4	-3.74651E+06	71.161
2800.0	305.67	-7.10623E+05	1103.9	-3.80157E+06	70.917
2850.0	305.74	-6.95338E+05	1109.3	-3.85690E+06	70.687
2900.0	305.81	-6.80049E+05	1114.6	-3.91250E+06	70.470
2950.0	305.88	-6.64757E+05	1119.9	-3.96837E+06	70.265
3000.0	305.94	-6.49461E+05	1125.0	-4.02449E+06	70.071

As4O10<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	229.96	-1.59589E+06	481.62	-1.73948E+06	304.74
300.00	230.71	-1.59546E+06	483.05	-1.74037E+06	303.02
350.00	248.06	-1.58347E+06	519.98	-1.76546E+06	263.47
400.00	261.15	-1.57072E+06	554.00	-1.79232E+06	234.05
450.00	271.54	-1.55740E+06	585.38	-1.82082E+06	211.35
500.00	280.05	-1.54360E+06	614.44	-1.85082E+06	193.35
550.00	287.14	-1.52942E+06	641.48	-1.88223E+06	178.75
600.00	293.10	-1.51490E+06	666.73	-1.91494E+06	166.71
650.00	298.10	-1.50012E+06	690.39	-1.94887E+06	156.61
700.00	302.23	-1.48511E+06	712.64	-1.98396E+06	148.04
750.00	305.91	-1.46990E+06	733.62	-2.02012E+06	140.69
800.00	308.93	-1.45453E+06	753.46	-2.05730E+06	134.32
850.00	311.44	-1.43902E+06	772.27	-2.09545E+06	128.77
900.00	313.55	-1.42339E+06	790.13	-2.13451E+06	123.88
950.00	315.35	-1.40767E+06	807.13	-2.17444E+06	119.56
1000.0	316.89	-1.39186E+06	823.35	-2.21521E+06	115.71
1050.0	318.22	-1.37598E+06	838.84	-2.25677E+06	112.27
1100.0	319.38	-1.36004E+06	853.67	-2.29908E+06	109.17
1150.0	320.40	-1.34405E+06	867.89	-2.34212E+06	106.38
1200.0	321.30	-1.32800E+06	881.55	-2.38586E+06	103.85
1250.0	322.10	-1.31192E+06	894.68	-2.43027E+06	101.55
1300.0	322.82	-1.29580E+06	907.33	-2.47532E+06	99.457
1350.0	323.46	-1.27964E+06	919.52	-2.52100E+06	97.541
1400.0	324.03	-1.26345E+06	931.30	-2.56727E+06	95.784
1450.0	324.56	-1.24724E+06	942.68	-2.61412E+06	94.168
1500.0	325.03	-1.23100E+06	953.69	-2.66153E+06	92.680
1550.0	325.47	-1.21473E+06	964.35	-2.70948E+06	91.307
1600.0	325.86	-1.19845E+06	974.69	-2.75796E+06	90.036
1650.0	326.23	-1.18215E+06	984.73	-2.80695E+06	88.858
1700.0	326.57	-1.16583E+06	994.47	-2.85643E+06	87.765
1750.0	326.88	-1.14949E+06	1003.9	-2.90639E+06	86.749
1800.0	327.17	-1.13314E+06	1013.2	-2.95682E+06	85.802
1850.0	327.43	-1.11677E+06	1022.1	-3.00770E+06	84.920
1900.0	327.68	-1.10040E+06	1030.9	-3.05903E+06	84.096
1950.0	327.91	-1.08401E+06	1039.4	-3.11078E+06	83.326
2000.0	328.13	-1.06761E+06	1047.7	-3.16296E+06	82.606
2050.0	328.34	-1.05119E+06	1055.8	-3.21555E+06	81.931
2100.0	328.53	-1.03477E+06	1063.7	-3.26854E+06	81.298
2150.0	328.71	-1.01834E+06	1071.4	-3.32191E+06	80.704
2200.0	328.88	-1.00190E+06	1079.0	-3.37568E+06	80.147
2250.0	329.04	-9.85454E+05	1086.4	-3.42981E+06	79.622
2300.0	329.19	-9.68998E+05	1093.6	-3.48431E+06	79.129
2350.0	329.33	-9.52535E+05	1100.7	-3.53917E+06	78.665
2400.0	329.47	-9.36065E+05	1107.6	-3.59438E+06	78.228
2450.0	329.59	-9.19589E+05	1114.4	-3.64993E+06	77.815
2500.0	329.72	-9.03106E+05	1121.1	-3.70582E+06	77.427
2550.0	329.83	-8.86617E+05	1127.6	-3.76204E+06	77.060
2600.0	329.94	-8.70123E+05	1134.0	-3.81858E+06	76.714
2650.0	330.05	-8.53623E+05	1140.3	-3.87544E+06	76.388
2700.0	330.15	-8.37118E+05	1146.5	-3.93261E+06	76.079
2750.0	330.24	-8.20609E+05	1152.5	-3.99008E+06	75.787
2800.0	330.33	-8.04094E+05	1158.5	-4.04786E+06	75.512
2850.0	330.42	-7.87575E+05	1164.3	-4.10593E+06	75.251
2900.0	330.50	-7.71053E+05	1170.1	-4.16429E+06	75.005
2950.0	330.58	-7.54526E+05	1175.7	-4.22294E+06	74.772
3000.0	330.65	-7.37995E+05	1181.3	-4.28186E+06	74.552

As2O8Pb3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	257.43	-1.78021E+06	324.60	-1.87699E+06	328.83
300.00	258.00	-1.77973E+06	326.19	-1.87759E+06	326.91
350.00	270.79	-1.76649E+06	366.98	-1.89494E+06	282.80
400.00	280.11	-1.75271E+06	403.77	-1.91422E+06	249.97
450.00	287.45	-1.73851E+06	437.21	-1.93526E+06	224.63
500.00	293.60	-1.72398E+06	467.82	-1.95789E+06	204.53
550.00	299.01	-1.70917E+06	496.06	-1.98200E+06	188.23
600.00	303.93	-1.69409E+06	522.29	-2.00747E+06	174.76
650.00	308.47	-1.67878E+06	546.80	-2.03420E+06	163.47
700.00	312.75	-1.66325E+06	569.82	-2.06212E+06	153.87
750.00	316.84	-1.64751E+06	591.53	-2.09116E+06	145.64
800.00	320.77	-1.63157E+06	612.11	-2.12126E+06	138.50
850.00	324.60	-1.61543E+06	631.67	-2.15235E+06	132.26
900.00	328.33	-1.59911E+06	650.33	-2.18441E+06	126.78
950.00	332.00	-1.58260E+06	668.18	-2.21737E+06	121.92
1000.0	335.61	-1.56591E+06	685.30	-2.25121E+06	117.59
1050.0	339.17	-1.54904E+06	701.76	-2.28589E+06	113.71
1100.0	342.69	-1.53199E+06	717.62	-2.32138E+06	110.23
1150.0	346.18	-1.51477E+06	732.93	-2.35765E+06	107.08
1200.0	349.65	-1.49738E+06	747.74	-2.39466E+06	104.23
1250.0	353.09	-1.47981E+06	762.08	-2.43241E+06	101.64
1300.0	356.51	-1.46207E+06	776.00	-2.47087E+06	99.278

AsO4Rb3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	175.28	-1.66900E+06	267.07	-1.74862E+06	306.34
300.00	175.48	-1.66867E+06	268.15	-1.74912E+06	304.54
350.00	180.46	-1.65977E+06	295.58	-1.76323E+06	263.14
400.00	184.87	-1.65064E+06	319.97	-1.77863E+06	232.26
450.00	188.96	-1.64129E+06	341.99	-1.79518E+06	208.37
500.00	192.84	-1.63174E+06	362.10	-1.81279E+06	189.38
550.00	196.59	-1.62201E+06	380.65	-1.83137E+06	173.92
600.00	200.25	-1.61209E+06	397.92	-1.85084E+06	161.13

AsO4Re

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	121.37	-7.71571E+05	170.00	-8.22255E+05	144.05
300.00	121.67	-7.71346E+05	170.75	-8.22570E+05	143.22
350.00	128.49	-7.65082E+05	190.05	-8.31598E+05	124.11
400.00	133.59	-7.58525E+05	207.55	-8.41545E+05	109.89
450.00	137.68	-7.51740E+05	223.53	-8.52328E+05	98.933
500.00	141.14	-7.44767E+05	238.22	-8.63876E+05	90.246
550.00	144.20	-7.37632E+05	251.82	-8.76131E+05	83.206
600.00	146.98	-7.30352E+05	264.48	-8.89042E+05	77.396
650.00	149.57	-7.22937E+05	276.35	-9.02566E+05	72.529
700.00	152.01	-7.15397E+05	287.53	-9.16666E+05	68.401
750.00	154.35	-7.07738E+05	298.09	-9.31309E+05	64.860

AsO4Sc

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.86	-1.43302E+06	155.90	-1.47950E+06	259.20
300.00	120.17	-1.43280E+06	156.64	-1.47979E+06	257.65
350.00	127.19	-1.42660E+06	175.72	-1.48811E+06	222.08
400.00	132.40	-1.42011E+06	193.06	-1.49733E+06	195.53
450.00	136.55	-1.41338E+06	208.90	-1.50739E+06	174.97
500.00	140.05	-1.40646E+06	223.47	-1.51820E+06	158.60
550.00	143.13	-1.39938E+06	236.97	-1.52972E+06	145.28
600.00	145.91	-1.39216E+06	249.54	-1.54188E+06	134.23
650.00	148.49	-1.38480E+06	261.33	-1.55466E+06	124.93
700.00	150.92	-1.37731E+06	272.42	-1.56800E+06	117.00
750.00	153.24	-1.36971E+06	282.91	-1.58189E+06	110.17
800.00	155.47	-1.36199E+06	292.87	-1.59629E+06	104.22

As2O8Sn3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	259.13	-1.78577E+06	303.93	-1.87639E+06	328.73
300.00	259.76	-1.78529E+06	305.53	-1.87695E+06	326.80
350.00	273.94	-1.77193E+06	346.70	-1.89328E+06	282.55
400.00	284.41	-1.75796E+06	383.99	-1.91156E+06	249.62
450.00	292.74	-1.74352E+06	417.99	-1.93162E+06	224.21
500.00	299.74	-1.72871E+06	449.20	-1.95331E+06	204.06
550.00	305.86	-1.71357E+06	478.07	-1.97650E+06	187.71
600.00	311.39	-1.69813E+06	504.92	-2.00108E+06	174.21
650.00	316.50	-1.68243E+06	530.05	-2.02696E+06	162.88
700.00	321.31	-1.66649E+06	553.68	-2.05406E+06	153.27
750.00	325.89	-1.65031E+06	576.01	-2.08231E+06	145.02
800.00	330.30	-1.63390E+06	597.18	-2.11164E+06	137.87
850.00	334.58	-1.61728E+06	617.33	-2.14201E+06	131.63
900.00	338.76	-1.60044E+06	636.58	-2.17336E+06	126.14

As2O8Sr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	257.56	-3.31707E+06	312.13	-3.41014E+06	597.43
300.00	258.13	-3.31660E+06	313.72	-3.41071E+06	593.84
350.00	270.80	-3.30336E+06	354.52	-3.42744E+06	511.50
400.00	279.96	-3.28958E+06	391.31	-3.44610E+06	450.00
450.00	287.08	-3.27539E+06	424.71	-3.46651E+06	402.37
500.00	292.93	-3.26089E+06	455.27	-3.48852E+06	364.43
550.00	297.95	-3.24611E+06	483.43	-3.51200E+06	333.53
600.00	302.40	-3.23110E+06	509.55	-3.53683E+06	307.90
650.00	306.46	-3.21588E+06	533.92	-3.56293E+06	286.31
700.00	310.23	-3.20046E+06	556.77	-3.59020E+06	267.90
750.00	313.79	-3.18486E+06	578.29	-3.61858E+06	252.01
800.00	317.18	-3.16909E+06	598.65	-3.64801E+06	238.18
850.00	320.44	-3.15314E+06	617.98	-3.67843E+06	226.04
900.00	323.61	-3.13704E+06	636.39	-3.70979E+06	215.31
950.00	326.70	-3.12078E+06	653.97	-3.74205E+06	205.75
1000.0	329.73	-3.10437E+06	670.80	-3.77518E+06	197.19
1050.0	332.71	-3.08781E+06	686.96	-3.80912E+06	189.49
1100.0	335.64	-3.07110E+06	702.51	-3.84386E+06	182.53
1150.0	338.54	-3.05425E+06	717.49	-3.87936E+06	176.20
1200.0	341.41	-3.03725E+06	731.96	-3.91560E+06	170.44
1250.0	344.26	-3.02011E+06	745.96	-3.95255E+06	165.16
1300.0	347.09	-3.00282E+06	759.51	-3.99019E+06	160.32
1350.0	349.89	-2.98540E+06	772.67	-4.02850E+06	155.87
1400.0	352.68	-2.96783E+06	785.44	-4.06745E+06	151.75
1450.0	355.46	-2.95013E+06	797.87	-4.10704E+06	147.95
1500.0	358.23	-2.93229E+06	809.96	-4.14723E+06	144.42
1550.0	360.99	-2.91431E+06	821.75	-4.18803E+06	141.13
1600.0	363.74	-2.89619E+06	833.26	-4.22940E+06	138.07
1650.0	366.48	-2.87793E+06	844.49	-4.27135E+06	135.22
1700.0	369.21	-2.85954E+06	855.47	-4.31385E+06	132.55
1750.0	371.94	-2.84101E+06	866.22	-4.35689E+06	130.04
1800.0	374.66	-2.82235E+06	876.73	-4.40047E+06	127.69
1850.0	377.37	-2.80355E+06	887.03	-4.44456E+06	125.49
1900.0	380.09	-2.78461E+06	897.13	-4.48917E+06	123.41

As2O4Ti3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	264.49	-2.61726E+06	339.36	-2.71844E+06	476.25
300.00	265.07	-2.61677E+06	341.00	-2.71907E+06	473.42
350.00	278.30	-2.60317E+06	382.91	-2.73719E+06	408.49
400.00	288.32	-2.58899E+06	420.75	-2.75729E+06	360.06
450.00	296.47	-2.57437E+06	455.20	-2.77920E+06	322.59
500.00	303.46	-2.55936E+06	486.80	-2.80277E+06	292.80
550.00	309.69	-2.54403E+06	516.02	-2.82785E+06	268.56
600.00	315.40	-2.52840E+06	543.22	-2.85433E+06	248.49
650.00	320.75	-2.51250E+06	568.68	-2.88214E+06	231.61
700.00	325.83	-2.49633E+06	592.63	-2.91118E+06	217.23
750.00	330.72	-2.47992E+06	615.28	-2.94138E+06	204.85
800.00	335.46	-2.46326E+06	636.78	-2.97269E+06	194.09

AsO4T1

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	145.69	-9.48555E+05	299.74	-1.03792E+06	181.84
300.00	146.25	-9.48285E+05	300.64	-1.03848E+06	180.81
350.00	159.14	-9.40633E+05	324.21	-1.05411E+06	157.31
400.00	168.84	-9.32423E+05	346.12	-1.07087E+06	139.84
450.00	176.69	-9.23779E+05	366.48	-1.08869E+06	126.37
500.00	183.39	-9.14773E+05	385.45	-1.10750E+06	115.70
550.00	189.34	-9.05453E+05	403.21	-1.12722E+06	107.05
600.00	194.77	-8.95848E+05	419.92	-1.14780E+06	99.922

AsO4Y

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	120.75	-1.51511E+06	160.54	-1.56298E+06	273.82
300.00	121.06	-1.51489E+06	161.29	-1.56327E+06	272.18
350.00	127.94	-1.50865E+06	180.50	-1.57183E+06	234.58
400.00	133.04	-1.50212E+06	197.93	-1.58129E+06	206.49
450.00	137.09	-1.49537E+06	213.84	-1.59159E+06	184.74
500.00	140.49	-1.48842E+06	228.46	-1.60266E+06	167.42
550.00	143.48	-1.48132E+06	242.00	-1.61442E+06	153.32
600.00	146.17	-1.47408E+06	254.60	-1.62684E+06	141.63
650.00	148.66	-1.46671E+06	266.40	-1.63987E+06	131.78
700.00	151.01	-1.45922E+06	277.50	-1.65347E+06	123.38
750.00	153.24	-1.45161E+06	288.00	-1.66761E+06	116.14
800.00	155.40	-1.44389E+06	297.96	-1.68226E+06	109.84

As2O8Zn3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	255.28	-2.13474E+06	281.92	-2.21880E+06	388.71
300.00	255.94	-2.13427E+06	283.50	-2.21932E+06	386.41
350.00	270.87	-2.12108E+06	324.14	-2.23453E+06	333.48
400.00	281.75	-2.10725E+06	361.06	-2.25167E+06	294.03
450.00	290.29	-2.09294E+06	394.75	-2.27058E+06	263.56
500.00	297.37	-2.07825E+06	425.71	-2.29110E+06	239.34
550.00	303.50	-2.06322E+06	454.35	-2.31311E+06	219.68
600.00	308.97	-2.04791E+06	481.00	-2.33650E+06	203.41
650.00	313.99	-2.03233E+06	505.93	-2.36118E+06	189.74
700.00	318.68	-2.01651E+06	529.37	-2.38707E+06	178.12
750.00	323.13	-2.00047E+06	551.51	-2.41410E+06	168.13
800.00	327.38	-1.98420E+06	572.50	-2.44220E+06	159.46
850.00	331.49	-1.96773E+06	592.47	-2.47133E+06	151.87
900.00	335.49	-1.95106E+06	611.53	-2.50144E+06	145.18
950.00	339.41	-1.93418E+06	629.78	-2.53247E+06	139.24
1000.0	343.24	-1.91712E+06	647.28	-2.56440E+06	133.95

ASP<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.452	1.87000E+05	235.29	1.16848E+05	-20.471
300.00	33.491	1.87062E+05	235.50	1.16413E+05	-20.269
350.00	34.363	1.88760E+05	240.73	1.04504E+05	-15.596
400.00	34.962	1.90494E+05	245.36	92349.	-12.059
450.00	35.401	1.92253E+05	249.51	79976.	-9.2831
500.00	35.738	1.94032E+05	253.25	67406.	-7.0416
550.00	36.007	1.95826E+05	256.67	54656.	-5.1907
600.00	36.228	1.97632E+05	259.82	41743.	-3.6340
650.00	36.414	1.99448E+05	262.72	28679.	-2.3046
700.00	36.573	2.01273E+05	265.43	15474.	-1.1547
750.00	36.711	2.03105E+05	267.96	2138.8	-0.14895
800.00	36.831	2.04944E+05	270.33	-11319.	0.73903
850.00	36.936	2.06788E+05	272.56	-24892.	1.5296
900.00	37.029	2.08637E+05	274.68	-38573.	2.2387
950.00	37.111	2.10491E+05	276.68	-52358.	2.8788
1000.0	37.183	2.12348E+05	278.59	-66240.	3.4599
1050.0	37.246	2.14209E+05	280.40	-80215.	3.9904
1100.0	37.300	2.16073E+05	282.14	-94279.	4.4768
1150.0	37.347	2.17939E+05	283.80	-1.08428E+05	4.9248
1200.0	37.387	2.19807E+05	285.39	-1.22658E+05	5.3390
1250.0	37.419	2.21677E+05	286.91	-1.36965E+05	5.7233
1300.0	37.445	2.23549E+05	288.38	-1.51348E+05	6.0811
1350.0	37.479	2.25422E+05	289.80	-1.65803E+05	6.4151
1400.0	37.511	2.27297E+05	291.16	-1.80327E+05	6.7279
1450.0	37.542	2.29173E+05	292.48	-1.94918E+05	7.0215
1500.0	37.570	2.31051E+05	293.75	-2.09574E+05	7.2978
1550.0	37.597	2.32930E+05	294.98	-2.24292E+05	7.5584
1600.0	37.623	2.34811E+05	296.18	-2.39071E+05	7.8047
1650.0	37.647	2.36692E+05	297.33	-2.53909E+05	8.0379
1700.0	37.671	2.38575E+05	298.46	-2.68804E+05	8.2591
1750.0	37.694	2.40460E+05	299.55	-2.83754E+05	8.4694
1800.0	37.716	2.42345E+05	300.61	-2.98759E+05	8.6695
1850.0	37.737	2.44231E+05	301.65	-3.13815E+05	8.8603
1900.0	37.757	2.46118E+05	302.65	-3.28923E+05	9.0425
1950.0	37.777	2.48007E+05	303.63	-3.44080E+05	9.2166
2000.0	37.797	2.49896E+05	304.59	-3.59286E+05	9.3833
2050.0	37.816	2.51786E+05	305.52	-3.74539E+05	9.5431
2100.0	37.834	2.53678E+05	306.44	-3.89838E+05	9.6964
2150.0	37.852	2.55570E+05	307.33	-4.05182E+05	9.8437
2200.0	37.870	2.57463E+05	308.20	-4.20570E+05	9.9854
2250.0	37.888	2.59357E+05	309.05	-4.36002E+05	10.122
2300.0	37.905	2.61252E+05	309.88	-4.51475E+05	10.253
2350.0	37.922	2.63147E+05	310.70	-4.66989E+05	10.380
2400.0	37.938	2.65044E+05	311.50	-4.82544E+05	10.502
2450.0	37.955	2.66941E+05	312.28	-4.98139E+05	10.620
2500.0	37.971	2.68839E+05	313.04	-5.13772E+05	10.734
2550.0	37.987	2.70738E+05	313.80	-5.29443E+05	10.845
2600.0	38.003	2.72638E+05	314.53	-5.45151E+05	10.952
2650.0	38.018	2.74539E+05	315.26	-5.60896E+05	11.056
2700.0	38.034	2.76440E+05	315.97	-5.76677E+05	11.156
2750.0	38.049	2.78342E+05	316.67	-5.92493E+05	11.254
2800.0	38.064	2.80245E+05	317.35	-6.08343E+05	11.348
2850.0	38.080	2.82148E+05	318.03	-6.24228E+05	11.441
2900.0	38.095	2.84053E+05	318.69	-6.40146E+05	11.530
2950.0	38.109	2.85958E+05	319.34	-6.56097E+05	11.617
3000.0	38.124	2.87864E+05	319.98	-6.72080E+05	11.702

AsP3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	71.432	97700.	303.17	7309.3	-1.2805
300.00	71.562	97832.	303.61	6748.0	-1.1749
350.00	74.359	1.01485E+05	314.87	-8719.6	1.3013
400.00	76.208	1.05253E+05	324.93	-24719.	3.2279
450.00	77.504	1.09097E+05	333.98	-41196.	4.7818
500.00	78.455	1.12997E+05	342.20	-58104.	6.0699
550.00	79.178	1.16939E+05	349.71	-75404.	7.1611
600.00	79.745	1.20912E+05	356.63	-93065.	8.1018
650.00	80.201	1.24912E+05	363.03	-1.11059E+05	8.9246
700.00	80.575	1.28931E+05	368.99	-1.29361E+05	9.6528
750.00	80.887	1.32968E+05	374.56	-1.47951E+05	10.304
800.00	81.150	1.37019E+05	379.79	-1.66811E+05	10.891
850.00	81.375	1.41082E+05	384.71	-1.85925E+05	11.425
900.00	81.569	1.45156E+05	389.37	-2.05278E+05	11.914
950.00	81.737	1.49239E+05	393.79	-2.24858E+05	12.363
1000.0	81.884	1.53330E+05	397.98	-2.44653E+05	12.779
1050.0	82.012	1.57427E+05	401.98	-2.64653E+05	13.165
1100.0	82.125	1.61530E+05	405.80	-2.84848E+05	13.526
1150.0	82.223	1.65639E+05	409.45	-3.05230E+05	13.864
1200.0	82.308	1.69753E+05	412.95	-3.25791E+05	14.181
1250.0	82.382	1.73870E+05	416.31	-3.46523E+05	14.480
1300.0	82.446	1.77991E+05	419.55	-3.67420E+05	14.763
1350.0	82.501	1.82114E+05	422.66	-3.88476E+05	15.031
1400.0	82.546	1.86241E+05	425.66	-4.09684E+05	15.285
1450.0	82.583	1.90369E+05	428.56	-4.31040E+05	15.527
1500.0	82.613	1.94499E+05	431.36	-4.52538E+05	15.758
1550.0	82.635	1.98630E+05	434.07	-4.74174E+05	15.979
1600.0	82.650	2.02762E+05	436.69	-4.95944E+05	16.190
1650.0	82.679	2.06895E+05	439.23	-5.17842E+05	16.393
1700.0	82.706	2.11030E+05	441.70	-5.39866E+05	16.588
1750.0	82.731	2.15166E+05	444.10	-5.62011E+05	16.775
1800.0	82.753	2.19303E+05	446.43	-5.84275E+05	16.955
1850.0	82.774	2.23441E+05	448.70	-6.06653E+05	17.128
1900.0	82.793	2.27580E+05	450.91	-6.29144E+05	17.296
1950.0	82.811	2.31720E+05	453.06	-6.51743E+05	17.458
2000.0	82.827	2.35861E+05	455.16	-6.74449E+05	17.614
2050.0	82.842	2.40003E+05	457.20	-6.97258E+05	17.766
2100.0	82.857	2.44146E+05	459.20	-7.20168E+05	17.913
2150.0	82.870	2.48289E+05	461.15	-7.43177E+05	18.055
2200.0	82.882	2.52433E+05	463.05	-7.66282E+05	18.193
2250.0	82.894	2.56577E+05	464.91	-7.89481E+05	18.328
2300.0	82.905	2.60722E+05	466.74	-8.12773E+05	18.458
2350.0	82.915	2.64867E+05	468.52	-8.36154E+05	18.585
2400.0	82.924	2.69013E+05	470.27	-8.59624E+05	18.709
2450.0	82.933	2.73160E+05	471.98	-8.83180E+05	18.829
2500.0	82.941	2.77307E+05	473.65	-9.06821E+05	18.947
2550.0	82.949	2.81454E+05	475.29	-9.30545E+05	19.061
2600.0	82.957	2.85602E+05	476.90	-9.54350E+05	19.173
2650.0	82.964	2.89750E+05	478.48	-9.78235E+05	19.282
2700.0	82.970	2.93898E+05	480.04	-1.00220E+06	19.388
2750.0	82.977	2.98047E+05	481.56	-1.02624E+06	19.492
2800.0	82.983	3.02196E+05	483.05	-1.05035E+06	19.594
2850.0	82.988	3.06345E+05	484.52	-1.07454E+06	19.694
2900.0	82.994	3.10495E+05	485.97	-1.09881E+06	19.791
2950.0	82.999	3.14644E+05	487.38	-1.12314E+06	19.887
3000.0	83.003	3.18794E+05	488.78	-1.14754E+06	19.980

As2P2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	66.287	1.06700E+05	310.03	14264.	-2.4989
300.00	66.384	1.06823E+05	310.44	13690.	-2.3836
350.00	68.459	1.10198E+05	320.84	-2097.5	0.31302
400.00	69.822	1.13657E+05	330.08	-18375.	2.3995
450.00	70.771	1.17173E+05	338.36	-35090.	4.0730
500.00	71.462	1.20730E+05	345.86	-52198.	5.4529
550.00	71.983	1.24316E+05	352.69	-69664.	6.6160
600.00	72.388	1.27926E+05	358.97	-87458.	7.6137
650.00	72.712	1.31554E+05	364.78	-1.05554E+05	8.4822
700.00	72.975	1.35196E+05	370.18	-1.23929E+05	9.2475
750.00	73.193	1.38851E+05	375.22	-1.42566E+05	9.9289
800.00	73.377	1.42515E+05	379.95	-1.61446E+05	10.541
850.00	73.533	1.46188E+05	384.40	-1.80556E+05	11.095
900.00	73.668	1.49868E+05	388.61	-1.99883E+05	11.601
950.00	73.786	1.53554E+05	392.60	-2.19414E+05	12.064
1000.0	73.889	1.57246E+05	396.39	-2.39139E+05	12.491
1050.0	73.979	1.60943E+05	399.99	-2.59049E+05	12.887
1100.0	74.060	1.64644E+05	403.44	-2.79136E+05	13.255
1150.0	74.131	1.68349E+05	406.73	-2.99390E+05	13.598
1200.0	74.195	1.72057E+05	409.89	-3.19806E+05	13.920
1250.0	74.252	1.75768E+05	412.92	-3.40377E+05	14.223
1300.0	74.303	1.79482E+05	415.83	-3.61096E+05	14.509
1350.0	74.349	1.83199E+05	418.63	-3.81958E+05	14.778
1400.0	74.390	1.86917E+05	421.34	-4.02958E+05	15.034
1450.0	74.426	1.90637E+05	423.95	-4.24090E+05	15.277
1500.0	74.458	1.94360E+05	426.47	-4.45351E+05	15.508
1550.0	74.487	1.98083E+05	428.92	-4.66736E+05	15.729
1600.0	74.511	2.01808E+05	431.28	-4.88242E+05	15.939
1650.0	74.533	2.05534E+05	433.57	-5.09863E+05	16.141
1700.0	74.551	2.09261E+05	435.80	-5.31598E+05	16.334
1750.0	74.566	2.12989E+05	437.96	-5.53442E+05	16.519
1800.0	74.578	2.16718E+05	440.06	-5.75393E+05	16.697
1850.0	74.588	2.20447E+05	442.11	-5.97447E+05	16.868
1900.0	74.594	2.24177E+05	444.09	-6.19602E+05	17.034
1950.0	74.599	2.27907E+05	446.03	-6.41856E+05	17.193
2000.0	74.601	2.31637E+05	447.92	-6.64205E+05	17.347
2050.0	74.612	2.35367E+05	449.76	-6.86647E+05	17.496
2100.0	74.622	2.39098E+05	451.56	-7.09180E+05	17.639
2150.0	74.632	2.42829E+05	453.32	-7.31803E+05	17.779
2200.0	74.641	2.46561E+05	455.03	-7.54511E+05	17.914
2250.0	74.649	2.50293E+05	456.71	-7.77305E+05	18.045
2300.0	74.657	2.54026E+05	458.35	-8.00182E+05	18.172
2350.0	74.664	2.57759E+05	459.96	-8.23140E+05	18.296
2400.0	74.671	2.61492E+05	461.53	-8.46177E+05	18.416
2450.0	74.677	2.65226E+05	463.07	-8.69292E+05	18.533
2500.0	74.683	2.68960E+05	464.58	-8.92483E+05	18.647
2550.0	74.689	2.72694E+05	466.06	-9.15749E+05	18.758
2600.0	74.694	2.76429E+05	467.51	-9.39088E+05	18.866
2650.0	74.699	2.80164E+05	468.93	-9.62500E+05	18.972
2700.0	74.704	2.83899E+05	470.33	-9.85981E+05	19.074
2750.0	74.709	2.87634E+05	471.70	-1.00953E+06	19.175
2800.0	74.713	2.91370E+05	473.04	-1.03315E+06	19.273
2850.0	74.717	2.95105E+05	474.37	-1.05684E+06	19.369
2900.0	74.721	2.98841E+05	475.66	-1.08059E+06	19.463
2950.0	74.725	3.02577E+05	476.94	-1.10440E+06	19.555
3000.0	74.728	3.06314E+05	478.20	-1.12828E+06	19.645

As3P<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.146	1.43200E+05	325.96	46014.	-8.0613
300.00	75.240	1.43339E+05	326.43	45411.	-7.9066
350.00	77.254	1.47155E+05	338.19	28789.	-4.2965
400.00	78.567	1.51053E+05	348.60	11615.	-1.5167
450.00	79.473	1.55005E+05	357.91	-6052.0	0.70248
500.00	80.125	1.58996E+05	366.31	-24161.	2.5240
550.00	80.612	1.63015E+05	373.97	-42671.	4.0524
600.00	80.986	1.67055E+05	381.01	-61548.	5.3581
650.00	81.280	1.71112E+05	387.50	-80763.	6.4900
700.00	81.516	1.75183E+05	393.53	-1.00290E+05	7.4836
750.00	81.709	1.79263E+05	399.16	-1.20109E+05	8.3649
800.00	81.870	1.83353E+05	404.44	-1.40201E+05	9.1539
850.00	82.004	1.87450E+05	409.41	-1.60548E+05	9.8658
900.00	82.119	1.91553E+05	414.10	-1.81137E+05	10.513
950.00	82.218	1.95661E+05	418.54	-2.01954E+05	11.104
1000.0	82.304	1.99775E+05	422.76	-2.22988E+05	11.647
1050.0	82.379	2.03892E+05	426.78	-2.44227E+05	12.149
1100.0	82.445	2.08012E+05	430.61	-2.65662E+05	12.615
1150.0	82.504	2.12136E+05	434.28	-2.87285E+05	13.049
1200.0	82.556	2.16263E+05	437.79	-3.09088E+05	13.454
1250.0	82.603	2.20392E+05	441.16	-3.31062E+05	13.834
1300.0	82.646	2.24523E+05	444.40	-3.53202E+05	14.191
1350.0	82.684	2.28656E+05	447.52	-3.75501E+05	14.529
1400.0	82.719	2.32791E+05	450.53	-3.97952E+05	14.847
1450.0	82.751	2.36928E+05	453.43	-4.20552E+05	15.150
1500.0	82.780	2.41066E+05	456.24	-4.43294E+05	15.436
1550.0	82.806	2.45206E+05	458.96	-4.66174E+05	15.710
1600.0	82.831	2.49347E+05	461.58	-4.89188E+05	15.970
1650.0	82.853	2.53489E+05	464.13	-5.12332E+05	16.219
1700.0	82.873	2.57632E+05	466.61	-5.35600E+05	16.457
1750.0	82.892	2.61776E+05	469.01	-5.58991E+05	16.685
1800.0	82.909	2.65921E+05	471.35	-5.82500E+05	16.903
1850.0	82.925	2.70067E+05	473.62	-6.06125E+05	17.113
1900.0	82.939	2.74214E+05	475.83	-6.29861E+05	17.316
1950.0	82.952	2.78361E+05	477.98	-6.53707E+05	17.510
2000.0	82.964	2.82509E+05	480.08	-6.77658E+05	17.698
2050.0	82.975	2.86657E+05	482.13	-7.01714E+05	17.879
2100.0	82.984	2.90806E+05	484.13	-7.25871E+05	18.055
2150.0	82.993	2.94956E+05	486.08	-7.50126E+05	18.224
2200.0	83.001	2.99106E+05	487.99	-7.74479E+05	18.388
2250.0	83.008	3.03256E+05	489.86	-7.98925E+05	18.547
2300.0	83.014	3.07406E+05	491.68	-8.23464E+05	18.701
2350.0	83.019	3.11557E+05	493.47	-8.48093E+05	18.851
2400.0	83.023	3.15708E+05	495.22	-8.72810E+05	18.996
2450.0	83.027	3.19860E+05	496.93	-8.97614E+05	19.137
2500.0	83.030	3.24011E+05	498.61	-9.22502E+05	19.274
2550.0	83.032	3.28163E+05	500.25	-9.47474E+05	19.408
2600.0	83.033	3.32314E+05	501.86	-9.72527E+05	19.538
2650.0	83.034	3.36466E+05	503.44	-9.97659E+05	19.665
2700.0	83.034	3.40618E+05	505.00	-1.02287E+06	19.788
2750.0	83.033	3.44769E+05	506.52	-1.04816E+06	19.909
2800.0	83.032	3.48921E+05	508.02	-1.07352E+06	20.026
2850.0	83.030	3.53072E+05	509.48	-1.09896E+06	20.141
2900.0	83.027	3.57224E+05	510.93	-1.12447E+06	20.253
2950.0	83.024	3.61375E+05	512.35	-1.15005E+06	20.363
3000.0	83.020	3.65526E+05	513.74	-1.17570E+06	20.470

Ass<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.865	1.81396E+05	242.06	1.09226E+05	-19.135
300.00	34.931	1.81461E+05	242.27	1.08778E+05	-18.939
350.00	36.425	1.83246E+05	247.78	96524.	-14.405
400.00	37.535	1.85097E+05	252.72	84010.	-10.970
450.00	38.388	1.86996E+05	257.19	71260.	-8.2715
500.00	39.052	1.88932E+05	261.27	58297.	-6.0901
550.00	39.565	1.90898E+05	265.02	45139.	-4.2868
600.00	39.950	1.92887E+05	268.48	31800.	-2.7684
650.00	40.222	1.94892E+05	271.69	18295.	-1.4702
700.00	40.389	1.96907E+05	274.67	4635.3	-0.34588
750.00	40.414	1.98927E+05	277.46	-9168.9	0.63856
800.00	40.411	2.00948E+05	280.07	-23108.	1.5088
850.00	40.387	2.02968E+05	282.52	-37173.	2.2843
900.00	40.349	2.04987E+05	284.83	-51357.	2.9806
950.00	40.299	2.07003E+05	287.01	-65654.	3.6098
1000.0	40.242	2.09016E+05	289.07	-80056.	4.1816
1050.0	40.178	2.11027E+05	291.03	-94559.	4.7040
1100.0	40.111	2.13034E+05	292.90	-1.09158E+05	5.1834
1150.0	40.042	2.15038E+05	294.68	-1.23848E+05	5.6252
1200.0	39.971	2.17038E+05	296.39	-1.38625E+05	6.0340
1250.0	39.900	2.19035E+05	298.02	-1.53486E+05	6.4136
1300.0	39.829	2.21028E+05	299.58	-1.68426E+05	6.7673
1350.0	39.759	2.23018E+05	301.08	-1.83443E+05	7.0976
1400.0	39.691	2.25004E+05	302.53	-1.98533E+05	7.4072
1450.0	39.624	2.26987E+05	303.92	-2.13694E+05	7.6979
1500.0	39.560	2.28967E+05	305.26	-2.28924E+05	7.9716
1550.0	39.499	2.30943E+05	306.56	-2.44220E+05	8.2299
1600.0	39.440	2.32917E+05	307.81	-2.59579E+05	8.4742
1650.0	39.384	2.34887E+05	309.02	-2.75000E+05	8.7055
1700.0	39.331	2.36855E+05	310.20	-2.90481E+05	8.9252
1750.0	39.282	2.38820E+05	311.34	-3.06019E+05	9.1339
1800.0	39.236	2.40783E+05	312.44	-3.21614E+05	9.3327
1850.0	39.194	2.42744E+05	313.52	-3.37263E+05	9.5224
1900.0	39.156	2.44703E+05	314.56	-3.52965E+05	9.7034
1950.0	39.121	2.46660E+05	315.58	-3.68718E+05	9.8766
2000.0	39.091	2.48615E+05	316.57	-3.84522E+05	10.042
2050.0	39.064	2.50569E+05	317.53	-4.00375E+05	10.201
2100.0	39.041	2.52521E+05	318.47	-4.16275E+05	10.354
2150.0	39.022	2.54473E+05	319.39	-4.32222E+05	10.501
2200.0	39.007	2.56424E+05	320.29	-4.48214E+05	10.642
2250.0	38.997	2.58374E+05	321.17	-4.64251E+05	10.777
2300.0	38.991	2.60324E+05	322.02	-4.80330E+05	10.908
2350.0	38.988	2.62273E+05	322.86	-4.96453E+05	11.035
2400.0	38.991	2.64222E+05	323.68	-5.12616E+05	11.157
2450.0	38.997	2.66172E+05	324.49	-5.28821E+05	11.274
2500.0	39.008	2.68122E+05	325.27	-5.45065E+05	11.388
2550.0	38.999	2.70072E+05	326.05	-5.61348E+05	11.498
2600.0	38.994	2.72022E+05	326.80	-5.77669E+05	11.605
2650.0	38.992	2.73972E+05	327.55	-5.94028E+05	11.709
2700.0	38.994	2.75921E+05	328.28	-6.10424E+05	11.809
2750.0	38.998	2.77871E+05	328.99	-6.26855E+05	11.906
2800.0	39.006	2.79821E+05	329.69	-6.43323E+05	12.001
2850.0	39.016	2.81772E+05	330.38	-6.59825E+05	12.093
2900.0	39.028	2.83723E+05	331.06	-6.76361E+05	12.182
2950.0	39.043	2.85675E+05	331.73	-6.92931E+05	12.269
3000.0	39.060	2.87627E+05	332.39	-7.09534E+05	12.354

As2S3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	115.40	-92700.	163.40	-1.41418E+05	24.775
300.00	115.52	-92486.	164.11	-1.41721E+05	24.675
350.00	118.03	-86643.	182.13	-1.50387E+05	22.443
400.00	119.93	-80693.	198.01	-1.59898E+05	20.880
450.00	122.00	-74647.	212.25	-1.70160E+05	19.751
500.00	124.67	-68483.	225.24	-1.81102E+05	18.919
550.00	128.15	-62167.	237.28	-1.92668E+05	18.298
585.00	131.16	-57630.	245.27	-2.01114E+05	17.957
585.00	185.00	-28930.	294.33	-2.01114E+05	17.957
600.00	185.00	-26155.	299.01	-2.05564E+05	17.895
650.00	185.00	-16905.	313.82	-2.20890E+05	17.750
700.00	185.00	-7655.2	327.53	-2.36928E+05	17.679
750.00	185.00	1594.8	340.30	-2.53627E+05	17.664
800.00	185.00	10845.	352.24	-2.70944E+05	17.690
850.00	185.00	20095.	363.45	-2.88839E+05	17.749
900.00	185.00	29345.	374.03	-3.07278E+05	17.834
950.00	185.00	38595.	384.03	-3.26232E+05	17.937
1000.0	185.00	47845.	393.52	-3.45673E+05	18.056
1050.0	185.00	57095.	402.54	-3.65576E+05	18.186
1100.0	185.00	66345.	411.15	-3.85920E+05	18.325
1150.0	185.00	75595.	419.37	-4.06685E+05	18.472
1200.0	185.00	84845.	427.25	-4.27852E+05	18.623
1250.0	185.00	94095.	434.80	-4.49404E+05	18.779
1300.0	185.00	1.03345E+05	442.05	-4.71327E+05	18.938
1350.0	185.00	1.12595E+05	449.04	-4.93605E+05	19.098
1400.0	185.00	1.21845E+05	455.76	-5.16226E+05	19.260
1450.0	185.00	1.31095E+05	462.26	-5.39178E+05	19.423
1500.0	185.00	1.40345E+05	468.53	-5.62448E+05	19.586
1550.0	185.00	1.49595E+05	474.59	-5.86027E+05	19.748
1600.0	185.00	1.58845E+05	480.47	-6.09904E+05	19.911
1650.0	185.00	1.68095E+05	486.16	-6.34071E+05	20.073
1700.0	185.00	1.77345E+05	491.68	-6.58518E+05	20.233
1750.0	185.00	1.86595E+05	497.05	-6.83237E+05	20.393
1800.0	185.00	1.95845E+05	502.26	-7.08220E+05	20.551
1850.0	185.00	2.05095E+05	507.33	-7.33460E+05	20.709
1900.0	185.00	2.14345E+05	512.26	-7.58950E+05	20.864
1950.0	185.00	2.23595E+05	517.07	-7.84684E+05	21.019
2000.0	185.00	2.32845E+05	521.75	-8.10655E+05	21.172

As4S4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	190.25	-1.40300E+05	245.50	-2.13496E+05	37.403
300.00	190.57	-1.39948E+05	246.68	-2.13951E+05	37.251
350.00	197.45	-1.30234E+05	276.61	-2.27048E+05	33.884
400.00	201.90	-1.20243E+05	303.29	-2.41558E+05	31.543
450.00	204.95	-1.10067E+05	327.26	-2.57332E+05	29.870
500.00	207.13	-99762.	348.97	-2.74246E+05	28.650
540.00	208.46	-91449.	364.96	-2.88528E+05	27.909
540.00	290.00	-88029.	371.30	-2.88529E+05	27.909
550.00	290.00	-85129.	376.62	-2.92268E+05	27.757
600.00	290.00	-70629.	401.85	-3.11739E+05	27.139
650.00	290.00	-56129.	425.06	-3.32419E+05	26.713
700.00	290.00	-41629.	446.55	-3.54216E+05	26.431
750.00	290.00	-27129.	466.56	-3.77050E+05	26.259
800.00	290.00	-12629.	485.28	-4.00851E+05	26.172
850.00	290.00	1870.9	502.86	-4.25559E+05	26.151
900.00	290.00	16371.	519.43	-4.51120E+05	26.182
950.00	290.00	30871.	535.11	-4.77487E+05	26.253
1000.0	290.00	45371.	549.99	-5.04618E+05	26.358
1050.0	290.00	59871.	564.14	-5.32474E+05	26.488
1100.0	290.00	74371.	577.63	-5.61021E+05	26.640
1150.0	290.00	88871.	590.52	-5.90227E+05	26.808
1200.0	290.00	1.03371E+05	602.86	-6.20064E+05	26.990
1250.0	290.00	1.17871E+05	614.70	-6.50505E+05	27.182
1300.0	290.00	1.32371E+05	626.07	-6.81526E+05	27.383
1350.0	290.00	1.46871E+05	637.02	-7.13105E+05	27.591
1400.0	290.00	1.61371E+05	647.57	-7.45221E+05	27.804
1450.0	290.00	1.75871E+05	657.74	-7.77855E+05	28.021
1500.0	290.00	1.90371E+05	667.57	-8.10990E+05	28.240
1550.0	290.00	2.04871E+05	677.08	-8.44608E+05	28.462
1600.0	290.00	2.19371E+05	686.29	-8.78693E+05	28.686
1650.0	290.00	2.33871E+05	695.21	-9.13232E+05	28.910
1700.0	290.00	2.48371E+05	703.87	-9.48210E+05	29.134
1750.0	290.00	2.62871E+05	712.28	-9.83615E+05	29.359
1800.0	290.00	2.77371E+05	720.45	-1.01943E+06	29.582
1850.0	290.00	2.91871E+05	728.39	-1.05566E+06	29.806
1900.0	290.00	3.06371E+05	736.13	-1.09227E+06	30.028
1950.0	290.00	3.20871E+05	743.66	-1.12927E+06	30.249
2000.0	290.00	3.35371E+05	751.00	-1.16663E+06	30.469

As4S4<AS4S4_BETA>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	188.11	-1.36100E+05	253.90	-2.11800E+05	37.106
300.00	188.56	-1.35752E+05	255.07	-2.12271E+05	36.959
350.00	194.76	-1.26129E+05	284.72	-2.25781E+05	33.695
400.00	196.04	-1.16354E+05	310.82	-2.40683E+05	31.429
450.00	198.37	-1.06506E+05	334.02	-2.56815E+05	29.810
500.00	204.91	-96446.	355.21	-2.74052E+05	28.629
550.00	217.45	-85915.	375.28	-2.92317E+05	27.761
580.00	228.32	-79235.	387.10	-3.03753E+05	27.355
580.00	290.00	-53836.	430.89	-3.03753E+05	27.355
600.00	290.00	-48036.	440.72	-3.12469E+05	27.202
650.00	290.00	-33536.	463.93	-3.35094E+05	26.928
700.00	290.00	-19036.	485.43	-3.58834E+05	26.776
750.00	290.00	-4536.0	505.43	-3.83611E+05	26.716
800.00	290.00	9964.0	524.15	-4.09356E+05	26.728
850.00	290.00	24464.	541.73	-4.36008E+05	26.793
900.00	290.00	38964.	558.31	-4.63512E+05	26.901
950.00	290.00	53464.	573.99	-4.91823E+05	27.042
1000.0	290.00	67964.	588.86	-5.20898E+05	27.208
1050.0	290.00	82464.	603.01	-5.50697E+05	27.395
1100.0	290.00	96964.	616.50	-5.81188E+05	27.598
1150.0	290.00	1.11464E+05	629.39	-6.12338E+05	27.813
1200.0	290.00	1.25964E+05	641.74	-6.44118E+05	28.037
1250.0	290.00	1.40464E+05	653.57	-6.76503E+05	28.269
1300.0	290.00	1.54964E+05	664.95	-7.09468E+05	28.506
1350.0	290.00	1.69464E+05	675.89	-7.42990E+05	28.747
1400.0	290.00	1.83964E+05	686.44	-7.77050E+05	28.991
1450.0	290.00	1.98464E+05	696.62	-8.11628E+05	29.237
1500.0	290.00	2.12964E+05	706.45	-8.46706E+05	29.484
1550.0	290.00	2.27464E+05	715.96	-8.82267E+05	29.731
1600.0	290.00	2.41964E+05	725.16	-9.18297E+05	29.979
1650.0	290.00	2.56464E+05	734.09	-9.54779E+05	30.225
1700.0	290.00	2.70964E+05	742.74	-9.91701E+05	30.470
1750.0	290.00	2.85464E+05	751.15	-1.02905E+06	30.715
1800.0	290.00	2.99964E+05	759.32	-1.06681E+06	30.957
1850.0	290.00	3.14464E+05	767.27	-1.10498E+06	31.198
1900.0	290.00	3.28964E+05	775.00	-1.14353E+06	31.437
1950.0	290.00	3.43464E+05	782.53	-1.18247E+06	31.674
2000.0	290.00	3.57964E+05	789.87	-1.22178E+06	31.909

As4S4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	163.08	-8000.0	442.17	-1.39832E+05	24.497
300.00	163.32	-7698.1	443.18	-1.40651E+05	24.489
350.00	168.42	605.30	468.77	-1.63463E+05	24.395
400.00	171.74	9114.9	491.49	-1.87480E+05	24.482
450.00	174.02	17762.	511.86	-2.12573E+05	24.674
500.00	175.65	26506.	530.28	-2.38633E+05	24.929
550.00	176.86	35320.	547.08	-2.65574E+05	25.221
600.00	177.78	44187.	562.51	-2.93319E+05	25.535
650.00	178.50	53095.	576.77	-3.21805E+05	25.860
700.00	179.08	62035.	590.02	-3.50979E+05	26.190
750.00	179.54	71001.	602.39	-3.80792E+05	26.520
800.00	179.92	79988.	613.99	-4.11205E+05	26.848
850.00	180.24	88992.	624.91	-4.42180E+05	27.172
900.00	180.51	98011.	635.22	-4.73686E+05	27.491
950.00	180.73	1.07042E+05	644.98	-5.05693E+05	27.804
1000.0	180.93	1.16084E+05	654.26	-5.38176E+05	28.111
1050.0	181.10	1.25134E+05	663.09	-5.71112E+05	28.411
1100.0	181.25	1.34193E+05	671.52	-6.04478E+05	28.704
1150.0	181.38	1.43259E+05	679.58	-6.38257E+05	28.990
1200.0	181.49	1.52331E+05	687.30	-6.72431E+05	29.269
1250.0	181.60	1.61408E+05	694.71	-7.06982E+05	29.542
1300.0	181.69	1.70490E+05	701.84	-7.41897E+05	29.809
1350.0	181.77	1.79577E+05	708.69	-7.77161E+05	30.069
1400.0	181.84	1.88667E+05	715.31	-8.12763E+05	30.324
1450.0	181.91	1.97761E+05	721.69	-8.48688E+05	30.572
1500.0	181.97	2.06858E+05	727.86	-8.84928E+05	30.815
1550.0	182.03	2.15958E+05	733.82	-9.21471E+05	31.053
1600.0	182.08	2.25061E+05	739.60	-9.58307E+05	31.285
1650.0	182.13	2.34166E+05	745.21	-9.95428E+05	31.512
1700.0	182.17	2.43274E+05	750.65	-1.03283E+06	31.734
1750.0	182.21	2.52383E+05	755.93	-1.07049E+06	31.952
1800.0	182.25	2.61495E+05	761.06	-1.10842E+06	32.165
1850.0	182.29	2.70608E+05	766.06	-1.14659E+06	32.373
1900.0	182.32	2.79723E+05	770.92	-1.18502E+06	32.578
1950.0	182.35	2.88840E+05	775.65	-1.22368E+06	32.778
2000.0	182.38	2.97958E+05	780.27	-1.26258E+06	32.974
2050.0	182.40	3.07078E+05	784.77	-1.30171E+06	33.167
2100.0	182.43	3.16198E+05	789.17	-1.34106E+06	33.356
2150.0	182.45	3.25321E+05	793.46	-1.38062E+06	33.542
2200.0	182.48	3.34444E+05	797.66	-1.42040E+06	33.724
2250.0	182.50	3.43568E+05	801.76	-1.46039E+06	33.903
2300.0	182.52	3.52693E+05	805.77	-1.50058E+06	34.078
2350.0	182.54	3.61820E+05	809.70	-1.54096E+06	34.251
2400.0	182.55	3.70947E+05	813.54	-1.58154E+06	34.421
2450.0	182.57	3.80075E+05	817.30	-1.62232E+06	34.587
2500.0	182.59	3.89204E+05	820.99	-1.66327E+06	34.751
2550.0	182.60	3.98334E+05	824.61	-1.70441E+06	34.913
2600.0	182.62	4.07464E+05	828.15	-1.74573E+06	35.071
2650.0	182.63	4.16596E+05	831.63	-1.78723E+06	35.228
2700.0	182.64	4.25727E+05	835.05	-1.82890E+06	35.381
2750.0	182.66	4.34860E+05	838.40	-1.87073E+06	35.533
2800.0	182.67	4.43993E+05	841.69	-1.91273E+06	35.682
2850.0	182.68	4.53127E+05	844.92	-1.95490E+06	35.828
2900.0	182.69	4.62261E+05	848.10	-1.99723E+06	35.973
2950.0	182.70	4.71396E+05	851.22	-2.03971E+06	36.116
3000.0	182.71	4.80531E+05	854.29	-2.08235E+06	36.256

AsSb<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.759	2.23400E+05	254.57	1.47500E+05	-25.841
300.00	35.781	2.23466E+05	254.79	1.47029E+05	-25.599
350.00	36.251	2.25268E+05	260.35	1.34147E+05	-20.020
400.00	36.558	2.27089E+05	265.21	1.21006E+05	-15.801
450.00	36.771	2.28922E+05	269.53	1.07635E+05	-12.494
500.00	36.926	2.30765E+05	273.41	94060.	-9.8262
550.00	37.044	2.32614E+05	276.93	80301.	-7.6261
600.00	37.137	2.34469E+05	280.16	66372.	-5.7781
650.00	37.213	2.36327E+05	283.14	52289.	-4.2019
700.00	37.278	2.38190E+05	285.90	38062.	-2.8401
750.00	37.334	2.40055E+05	288.47	23702.	-1.6507
800.00	37.385	2.41923E+05	290.88	9217.6	-0.60183
850.00	37.432	2.43794E+05	293.15	-5383.8	0.33084
900.00	37.476	2.45666E+05	295.29	-20095.	1.1663
950.00	37.518	2.47541E+05	297.32	-34911.	1.9195
1000.0	37.559	2.49418E+05	299.24	-49825.	2.6025
1050.0	37.600	2.51297E+05	301.08	-64834.	3.2252
1100.0	37.640	2.53178E+05	302.83	-79932.	3.7955
1150.0	37.681	2.55061E+05	304.50	-95115.	4.3202
1200.0	37.722	2.56946E+05	306.11	-1.10381E+05	4.8046
1250.0	37.764	2.58833E+05	307.65	-1.25725E+05	5.2536
1300.0	37.807	2.60723E+05	309.13	-1.41144E+05	5.6711
1350.0	37.851	2.62614E+05	310.56	-1.56637E+05	6.0605
1400.0	37.896	2.64508E+05	311.93	-1.72199E+05	6.4247
1450.0	37.942	2.66404E+05	313.26	-1.87829E+05	6.7662
1500.0	37.990	2.68302E+05	314.55	-2.03525E+05	7.0872
1550.0	38.039	2.70203E+05	315.80	-2.19284E+05	7.3896
1600.0	38.089	2.72106E+05	317.01	-2.35104E+05	7.6752
1650.0	38.141	2.74012E+05	318.18	-2.50984E+05	7.9453
1700.0	38.195	2.75920E+05	319.32	-2.66921E+05	8.2013
1750.0	38.253	2.77831E+05	320.43	-2.82915E+05	8.4443
1800.0	38.321	2.79746E+05	321.50	-2.98963E+05	8.6755
1850.0	38.398	2.81663E+05	322.56	-3.15065E+05	8.8956
1900.0	38.485	2.83585E+05	323.58	-3.31219E+05	9.1056
1950.0	38.581	2.85512E+05	324.58	-3.47423E+05	9.3062
2000.0	38.686	2.87444E+05	325.56	-3.63676E+05	9.4980

AsSb3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.694	2.02100E+05	363.96	93585.	-16.395
300.00	79.735	2.02247E+05	364.45	92912.	-16.177
350.00	80.628	2.06258E+05	376.82	74372.	-11.099
400.00	81.207	2.10305E+05	387.62	55256.	-7.2155
450.00	81.606	2.14376E+05	397.21	35630.	-4.1358
500.00	81.891	2.18464E+05	405.83	15551.	-1.6245
550.00	82.103	2.22564E+05	413.64	-4939.0	0.46905
600.00	82.264	2.26673E+05	420.79	-25802.	2.2462
650.00	82.390	2.30790E+05	427.38	-47009.	3.7776
700.00	82.491	2.34912E+05	433.49	-68533.	5.1138
750.00	82.572	2.39038E+05	439.19	-90351.	6.2925
800.00	82.639	2.43169E+05	444.52	-1.12445E+05	7.3417
850.00	82.694	2.47302E+05	449.53	-1.34798E+05	8.2834
900.00	82.741	2.51438E+05	454.26	-1.57393E+05	9.1346
950.00	82.781	2.55576E+05	458.73	-1.80219E+05	9.9089
1000.0	82.816	2.59716E+05	462.98	-2.03263E+05	10.617
1050.0	82.845	2.63858E+05	467.02	-2.26514E+05	11.268
1100.0	82.871	2.68001E+05	470.87	-2.49962E+05	11.869
1150.0	82.894	2.72145E+05	474.56	-2.73598E+05	12.427
1200.0	82.914	2.76290E+05	478.09	-2.97415E+05	12.946
1250.0	82.932	2.80436E+05	481.47	-3.21405E+05	13.430
1300.0	82.948	2.84583E+05	484.73	-3.45560E+05	13.884
1350.0	82.962	2.88731E+05	487.86	-3.69875E+05	14.311
1400.0	82.975	2.92879E+05	490.87	-3.94344E+05	14.713
1450.0	82.986	2.97028E+05	493.79	-4.18961E+05	15.092
1500.0	82.997	3.01178E+05	496.60	-4.43721E+05	15.451
1550.0	83.007	3.05328E+05	499.32	-4.68619E+05	15.792
1600.0	83.015	3.09479E+05	501.96	-4.93651E+05	16.116
1650.0	83.023	3.13630E+05	504.51	-5.18813E+05	16.424
1700.0	83.031	3.17781E+05	506.99	-5.44101E+05	16.718
1750.0	83.038	3.21933E+05	509.40	-5.69511E+05	16.999
1800.0	83.044	3.26085E+05	511.74	-5.95040E+05	17.267
1850.0	83.050	3.30237E+05	514.01	-6.20684E+05	17.525
1900.0	83.055	3.34390E+05	516.23	-6.46440E+05	17.771
1950.0	83.060	3.38542E+05	518.38	-6.72305E+05	18.009
2000.0	83.064	3.42696E+05	520.49	-6.98277E+05	18.237
2050.0	83.068	3.46849E+05	522.54	-7.24353E+05	18.456
2100.0	83.072	3.51002E+05	524.54	-7.50530E+05	18.668
2150.0	83.076	3.55156E+05	526.49	-7.76806E+05	18.872
2200.0	83.079	3.59310E+05	528.40	-8.03179E+05	19.069
2250.0	83.082	3.63464E+05	530.27	-8.29646E+05	19.260
2300.0	83.085	3.67618E+05	532.10	-8.56205E+05	19.445
2350.0	83.088	3.71773E+05	533.88	-8.82855E+05	19.623
2400.0	83.090	3.75927E+05	535.63	-9.09593E+05	19.796
2450.0	83.093	3.80082E+05	537.35	-9.36418E+05	19.964
2500.0	83.095	3.84236E+05	539.03	-9.63327E+05	20.127
2550.0	83.097	3.88391E+05	540.67	-9.90320E+05	20.285
2600.0	83.098	3.92546E+05	542.28	-1.01739E+06	20.439
2650.0	83.100	3.96701E+05	543.87	-1.04455E+06	20.589
2700.0	83.101	4.00856E+05	545.42	-1.07178E+06	20.734
2750.0	83.103	4.05011E+05	546.95	-1.09909E+06	20.876
2800.0	83.104	4.09166E+05	548.44	-1.12647E+06	21.014
2850.0	83.105	4.13321E+05	549.91	-1.15393E+06	21.149
2900.0	83.106	4.17477E+05	551.36	-1.18146E+06	21.280
2950.0	83.107	4.21632E+05	552.78	-1.20907E+06	21.408
3000.0	83.107	4.25787E+05	554.18	-1.23674E+06	21.533

As2Sb2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.865	1.89900E+05	359.00	82864.	-14.517
300.00	78.916	1.90046E+05	359.49	82200.	-14.312
350.00	80.018	1.94021E+05	371.74	63912.	-9.5380
400.00	80.734	1.98041E+05	382.48	45051.	-5.8829
450.00	81.226	2.02091E+05	392.02	25684.	-2.9812
500.00	81.579	2.06162E+05	400.59	5864.9	-0.61269
550.00	81.842	2.10248E+05	408.38	-14362.	1.3640
600.00	82.042	2.14345E+05	415.51	-34962.	3.0437
650.00	82.198	2.18451E+05	422.09	-55904.	4.4924
700.00	82.323	2.22564E+05	428.18	-77163.	5.7578
750.00	82.425	2.26683E+05	433.86	-98716.	6.8750
800.00	82.508	2.30806E+05	439.19	-1.20543E+05	7.8705
850.00	82.578	2.34934E+05	444.19	-1.42629E+05	8.7647
900.00	82.636	2.39064E+05	448.91	-1.64958E+05	9.5737
950.00	82.687	2.43197E+05	453.38	-1.87516E+05	10.310
1000.0	82.730	2.47332E+05	457.62	-2.10292E+05	10.984
1050.0	82.767	2.51470E+05	461.66	-2.33275E+05	11.605
1100.0	82.800	2.55609E+05	465.51	-2.56455E+05	12.178
1150.0	82.829	2.59750E+05	469.19	-2.79824E+05	12.710
1200.0	82.854	2.63892E+05	472.72	-3.03372E+05	13.205
1250.0	82.877	2.68035E+05	476.10	-3.27093E+05	13.668
1300.0	82.897	2.72180E+05	479.35	-3.50980E+05	14.102
1350.0	82.915	2.76325E+05	482.48	-3.75027E+05	14.510
1400.0	82.932	2.80471E+05	485.50	-3.99227E+05	14.895
1450.0	82.947	2.84618E+05	488.41	-4.23575E+05	15.258
1500.0	82.960	2.88766E+05	491.22	-4.48066E+05	15.603
1550.0	82.973	2.92914E+05	493.94	-4.72695E+05	15.929
1600.0	82.984	2.97063E+05	496.58	-4.97459E+05	16.240
1650.0	82.994	3.01213E+05	499.13	-5.22352E+05	16.536
1700.0	83.004	3.05362E+05	501.61	-5.47370E+05	16.818
1750.0	83.013	3.09513E+05	504.01	-5.72511E+05	17.088
1800.0	83.021	3.13664E+05	506.35	-5.97771E+05	17.346
1850.0	83.028	3.17815E+05	508.63	-6.23145E+05	17.594
1900.0	83.035	3.21967E+05	510.84	-6.48632E+05	17.832
1950.0	83.041	3.26118E+05	513.00	-6.74228E+05	18.060
2000.0	83.047	3.30271E+05	515.10	-6.99931E+05	18.280
2050.0	83.052	3.34423E+05	517.15	-7.25738E+05	18.492
2100.0	83.057	3.38576E+05	519.15	-7.51646E+05	18.696
2150.0	83.062	3.42729E+05	521.11	-7.77652E+05	18.893
2200.0	83.066	3.46882E+05	523.02	-8.03755E+05	19.083
2250.0	83.070	3.51035E+05	524.88	-8.29953E+05	19.267
2300.0	83.073	3.55189E+05	526.71	-8.56243E+05	19.445
2350.0	83.077	3.59343E+05	528.50	-8.82623E+05	19.618
2400.0	83.079	3.63497E+05	530.25	-9.09092E+05	19.785
2450.0	83.082	3.67651E+05	531.96	-9.35647E+05	19.948
2500.0	83.085	3.71805E+05	533.64	-9.62287E+05	20.105
2550.0	83.087	3.75959E+05	535.28	-9.89011E+05	20.259
2600.0	83.089	3.80113E+05	536.90	-1.01582E+06	20.407
2650.0	83.090	3.84268E+05	538.48	-1.04270E+06	20.552
2700.0	83.092	3.88423E+05	540.03	-1.06966E+06	20.693
2750.0	83.093	3.92577E+05	541.56	-1.09670E+06	20.831
2800.0	83.094	3.96732E+05	543.05	-1.12382E+06	20.965
2850.0	83.095	4.00887E+05	544.52	-1.15101E+06	21.095
2900.0	83.096	4.05041E+05	545.97	-1.17827E+06	21.222
2950.0	83.097	4.09196E+05	547.39	-1.20560E+06	21.347
3000.0	83.097	4.13351E+05	548.79	-1.23301E+06	21.468

As3Sb<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.036	1.74000E+05	347.29	70455.	-12.343
300.00	78.098	1.74144E+05	347.77	69813.	-12.155
350.00	79.408	1.78085E+05	359.92	52113.	-7.7773
400.00	80.261	1.82078E+05	370.58	33845.	-4.4196
450.00	80.847	1.86106E+05	380.07	15075.	-1.7498
500.00	81.268	1.90160E+05	388.61	-4145.8	0.43310
550.00	81.581	1.94231E+05	396.37	-23773.	2.2577
600.00	81.820	1.98317E+05	403.48	-43772.	3.8106
650.00	82.007	2.02412E+05	410.04	-64112.	5.1520
700.00	82.156	2.06517E+05	416.12	-84768.	6.3253
750.00	82.277	2.10627E+05	421.79	-1.05718E+05	7.3626
800.00	82.377	2.14744E+05	427.11	-1.26941E+05	8.2882
850.00	82.461	2.18865E+05	432.10	-1.48423E+05	9.1207
900.00	82.532	2.22990E+05	436.82	-1.70147E+05	9.8748
950.00	82.592	2.27118E+05	441.28	-1.92101E+05	10.562
1000.0	82.644	2.31249E+05	445.52	-2.14272E+05	11.192
1050.0	82.689	2.35382E+05	449.55	-2.36649E+05	11.772
1100.0	82.729	2.39518E+05	453.40	-2.59224E+05	12.309
1150.0	82.764	2.43655E+05	457.08	-2.81987E+05	12.808
1200.0	82.795	2.47794E+05	460.60	-3.04929E+05	13.273
1250.0	82.822	2.51934E+05	463.98	-3.28044E+05	13.708
1300.0	82.847	2.56076E+05	467.23	-3.51325E+05	14.116
1350.0	82.869	2.60219E+05	470.36	-3.74766E+05	14.500
1400.0	82.889	2.64363E+05	473.37	-3.98359E+05	14.863
1450.0	82.907	2.68508E+05	476.28	-4.22101E+05	15.205
1500.0	82.924	2.72654E+05	479.09	-4.45986E+05	15.530
1550.0	82.939	2.76800E+05	481.81	-4.70009E+05	15.839
1600.0	82.953	2.80948E+05	484.45	-4.94166E+05	16.132
1650.0	82.965	2.85096E+05	487.00	-5.18452E+05	16.412
1700.0	82.977	2.89244E+05	489.48	-5.42864E+05	16.680
1750.0	82.988	2.93393E+05	491.88	-5.67399E+05	16.935
1800.0	82.997	2.97543E+05	494.22	-5.92051E+05	17.180
1850.0	83.007	3.01693E+05	496.49	-6.16819E+05	17.415
1900.0	83.015	3.05843E+05	498.71	-6.41700E+05	17.641
1950.0	83.022	3.09994E+05	500.86	-6.66689E+05	17.858
2000.0	83.030	3.14146E+05	502.97	-6.91785E+05	18.067
2050.0	83.036	3.18297E+05	505.02	-7.16985E+05	18.269
2100.0	83.042	3.22449E+05	507.02	-7.42286E+05	18.463
2150.0	83.047	3.26602E+05	508.97	-7.67686E+05	18.651
2200.0	83.053	3.30754E+05	510.88	-7.93182E+05	18.832
2250.0	83.057	3.34907E+05	512.75	-8.18773E+05	19.008
2300.0	83.061	3.39060E+05	514.57	-8.44456E+05	19.178
2350.0	83.065	3.43213E+05	516.36	-8.70229E+05	19.343
2400.0	83.069	3.47366E+05	518.11	-8.96091E+05	19.502
2450.0	83.072	3.51520E+05	519.82	-9.22040E+05	19.658
2500.0	83.074	3.55673E+05	521.50	-9.48073E+05	19.808
2550.0	83.077	3.59827E+05	523.14	-9.74189E+05	19.955
2600.0	83.079	3.63981E+05	524.76	-1.00039E+06	20.098
2650.0	83.081	3.68135E+05	526.34	-1.02666E+06	20.236
2700.0	83.083	3.72289E+05	527.89	-1.05302E+06	20.371
2750.0	83.084	3.76443E+05	529.42	-1.07945E+06	20.503
2800.0	83.085	3.80598E+05	530.91	-1.10596E+06	20.631
2850.0	83.086	3.84752E+05	532.38	-1.13254E+06	20.757
2900.0	83.086	3.88906E+05	533.83	-1.15920E+06	20.879
2950.0	83.087	3.93061E+05	535.25	-1.18593E+06	20.998
3000.0	83.087	3.97215E+05	536.65	-1.21272E+06	21.115

AsSe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.469	1.85084E+05	253.37	1.09541E+05	-19.191
300.00	35.494	1.85150E+05	253.59	1.09072E+05	-18.991
350.00	36.169	1.86941E+05	259.12	96251.	-14.364
400.00	36.823	1.88766E+05	263.99	83171.	-10.861
450.00	37.444	1.90623E+05	268.36	69860.	-8.1090
500.00	38.025	1.92510E+05	272.34	56341.	-5.8858
550.00	38.563	1.94425E+05	275.99	42632.	-4.0487
600.00	39.055	1.96365E+05	279.36	28747.	-2.5026
650.00	39.500	1.98329E+05	282.51	14699.	-1.1812
700.00	39.897	2.00315E+05	285.45	499.65	-3.7E-02
750.00	40.245	2.02318E+05	288.21	-13843.	0.96406
800.00	40.545	2.04338E+05	290.82	-28319.	1.8490
850.00	40.794	2.06372E+05	293.29	-42922.	2.6376
900.00	40.994	2.08417E+05	295.63	-57646.	3.3456
950.00	41.145	2.10471E+05	297.85	-72483.	3.9853
1000.0	41.245	2.12531E+05	299.96	-87429.	4.5667
1050.0	41.290	2.14594E+05	301.97	-1.02477E+05	5.0978
1100.0	41.315	2.16659E+05	303.89	-1.17624E+05	5.5854
1150.0	41.325	2.18725E+05	305.73	-1.32865E+05	6.0348
1200.0	41.323	2.20792E+05	307.49	-1.48196E+05	6.4506
1250.0	41.311	2.22857E+05	309.18	-1.63613E+05	6.8368
1300.0	41.291	2.24922E+05	310.80	-1.79113E+05	7.1967
1350.0	41.264	2.26986E+05	312.35	-1.94692E+05	7.5329
1400.0	41.233	2.29049E+05	313.85	-2.10347E+05	7.8479
1450.0	41.198	2.31110E+05	315.30	-2.26076E+05	8.1439
1500.0	41.160	2.33169E+05	316.70	-2.41876E+05	8.4227
1550.0	41.121	2.35226E+05	318.05	-2.57745E+05	8.6857
1600.0	41.079	2.37281E+05	319.35	-2.73680E+05	8.9345
1650.0	41.037	2.39334E+05	320.61	-2.89679E+05	9.1703
1700.0	40.995	2.41384E+05	321.84	-3.05741E+05	9.3940
1750.0	40.953	2.43433E+05	323.03	-3.21863E+05	9.6068
1800.0	40.911	2.45480E+05	324.18	-3.38043E+05	9.8095
1850.0	40.870	2.47524E+05	325.30	-3.54280E+05	10.003
1900.0	40.829	2.49567E+05	326.39	-3.70572E+05	10.187
1950.0	40.791	2.51607E+05	327.45	-3.86918E+05	10.364
2000.0	40.753	2.53646E+05	328.48	-4.03317E+05	10.533
2050.0	40.718	2.55683E+05	329.49	-4.19766E+05	10.696
2100.0	40.684	2.57718E+05	330.47	-4.36265E+05	10.851
2150.0	40.652	2.59751E+05	331.42	-4.52813E+05	11.001
2200.0	40.622	2.61783E+05	332.36	-4.69407E+05	11.145
2250.0	40.594	2.63813E+05	333.27	-4.86048E+05	11.284
2300.0	40.569	2.65842E+05	334.16	-5.02734E+05	11.417
2350.0	40.546	2.67870E+05	335.04	-5.19464E+05	11.546
2400.0	40.526	2.69897E+05	335.89	-5.36237E+05	11.671
2450.0	40.508	2.71923E+05	336.72	-5.53053E+05	11.791
2500.0	40.492	2.73948E+05	337.54	-5.69910E+05	11.907
2550.0	40.480	2.75972E+05	338.34	-5.86807E+05	12.020
2600.0	40.470	2.77996E+05	339.13	-6.03744E+05	12.129
2650.0	40.462	2.80019E+05	339.90	-6.20720E+05	12.235
2700.0	40.458	2.82042E+05	340.66	-6.37734E+05	12.337
2750.0	40.457	2.84065E+05	341.40	-6.54785E+05	12.437
2800.0	40.458	2.86088E+05	342.13	-6.71873E+05	12.534
2850.0	40.462	2.88111E+05	342.85	-6.88998E+05	12.628
2900.0	40.469	2.90134E+05	343.55	-7.06158E+05	12.719
2950.0	40.480	2.92158E+05	344.24	-7.23353E+05	12.808
3000.0	40.493	2.94182E+05	344.92	-7.40582E+05	12.894

As₂Se₃

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	121.39	-1.02508E+05	194.56	-1.60515E+05	28.121
300.00	121.55	-1.02283E+05	195.31	-1.60876E+05	28.010
350.00	125.83	-96099.	214.37	-1.71127E+05	25.539
400.00	130.12	-89700.	231.45	-1.82279E+05	23.803
450.00	134.41	-83087.	247.02	-1.94247E+05	22.547
500.00	138.70	-76259.	261.41	-2.06962E+05	21.621
550.00	142.99	-69217.	274.83	-2.20371E+05	20.929
600.00	147.28	-61960.	287.45	-2.34431E+05	20.409
650.00	151.57	-54489.	299.41	-2.49105E+05	20.018
650.00	195.39	-13695.	362.17	-2.49105E+05	20.018
650.00	195.39	-13695.	362.17	-2.49105E+05	20.018
700.00	195.39	-3925.3	376.65	-2.67580E+05	19.967
750.00	195.39	5844.3	390.13	-2.86754E+05	19.971
800.00	195.39	15614.	402.74	-3.06579E+05	20.017

As2SiZn

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	92.799	-1.46440E+05	124.47	-1.83552E+05	32.157
300.00	92.822	-1.46268E+05	125.05	-1.83783E+05	31.999
350.00	93.439	-1.41612E+05	139.40	-1.90403E+05	28.415
400.00	94.056	-1.36924E+05	151.92	-1.97693E+05	25.815
450.00	94.673	-1.32206E+05	163.03	-2.05572E+05	23.862
500.00	95.291	-1.27457E+05	173.04	-2.13978E+05	22.354
550.00	95.908	-1.22677E+05	182.15	-2.22861E+05	21.165
600.00	96.525	-1.17866E+05	190.52	-2.32180E+05	20.213
650.00	97.142	-1.13025E+05	198.27	-2.41903E+05	19.439
700.00	97.759	-1.08152E+05	205.50	-2.51999E+05	18.804
750.00	98.376	-1.03249E+05	212.26	-2.62445E+05	18.278
800.00	98.993	-98314.	218.63	-2.73219E+05	17.839
850.00	99.611	-93349.	224.65	-2.84302E+05	17.471
900.00	100.23	-88353.	230.36	-2.95678E+05	17.160
950.00	100.84	-83327.	235.80	-3.07334E+05	16.898
1000.0	101.46	-78269.	240.99	-3.19254E+05	16.676
1050.0	102.08	-73180.	245.95	-3.31428E+05	16.487
1100.0	102.70	-68061.	250.71	-3.43846E+05	16.327
1150.0	103.31	-62911.	255.29	-3.56497E+05	16.192
1200.0	103.93	-57730.	259.70	-3.69372E+05	16.078
1250.0	104.55	-52518.	263.96	-3.82464E+05	15.982
1300.0	105.16	-47275.	268.07	-3.95765E+05	15.902
1350.0	105.78	-42001.	272.05	-4.09269E+05	15.835
1400.0	106.40	-36697.	275.91	-4.22968E+05	15.781

AsTe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.842	2.05090E+05	260.86	1.27313E+05	-22.304
300.00	35.857	2.05156E+05	261.09	1.26831E+05	-22.083
350.00	36.239	2.06959E+05	266.64	1.13634E+05	-16.959
400.00	36.572	2.08779E+05	271.50	1.00178E+05	-13.082
450.00	36.879	2.10616E+05	275.83	86493.	-10.040
500.00	37.173	2.12467E+05	279.73	72602.	-7.5845
550.00	37.461	2.14333E+05	283.29	58525.	-5.5581
600.00	37.747	2.16213E+05	286.56	44278.	-3.8547
650.00	38.034	2.18108E+05	289.59	29873.	-2.4006
700.00	38.324	2.20017E+05	292.42	15322.	-1.1433
750.00	38.618	2.21940E+05	295.07	634.32	-4.4E-02
800.00	38.916	2.23879E+05	297.58	-14183.	0.92600
850.00	39.220	2.25832E+05	299.94	-29121.	1.7895
900.00	39.530	2.27801E+05	302.20	-44175.	2.5638
950.00	39.870	2.29786E+05	304.34	-59339.	3.2626
1000.0	40.165	2.31787E+05	306.39	-74608.	3.8970
1050.0	40.423	2.33802E+05	308.36	-89977.	4.4760
1100.0	40.649	2.35829E+05	310.25	-1.05442E+05	5.0069
1150.0	40.849	2.37866E+05	312.06	-1.21000E+05	5.4959
1200.0	41.027	2.39913E+05	313.80	-1.36647E+05	5.9479
1250.0	41.184	2.41969E+05	315.48	-1.52379E+05	6.3674
1300.0	41.325	2.44031E+05	317.10	-1.68194E+05	6.7579
1350.0	41.451	2.46101E+05	318.66	-1.84088E+05	7.1226
1400.0	41.563	2.48176E+05	320.17	-2.00059E+05	7.4641
1450.0	41.663	2.50257E+05	321.63	-2.16104E+05	7.7847
1500.0	41.752	2.52342E+05	323.04	-2.32221E+05	8.0864
1550.0	41.832	2.54432E+05	324.41	-2.48407E+05	8.3711
1600.0	41.902	2.56525E+05	325.74	-2.64661E+05	8.6401
1650.0	41.964	2.58622E+05	327.03	-2.80981E+05	8.8949
1700.0	42.019	2.60722E+05	328.29	-2.97364E+05	9.1367
1750.0	42.066	2.62824E+05	329.50	-3.13809E+05	9.3664
1800.0	42.106	2.64928E+05	330.69	-3.30314E+05	9.5852
1850.0	42.140	2.67034E+05	331.84	-3.46877E+05	9.7938
1900.0	42.168	2.69142E+05	332.97	-3.63498E+05	9.9930
1950.0	42.190	2.71251E+05	334.06	-3.80174E+05	10.183
2000.0	42.206	2.73361E+05	335.13	-3.96904E+05	10.366
2050.0	42.217	2.75472E+05	336.17	-4.13687E+05	10.541
2100.0	42.224	2.77583E+05	337.19	-4.30521E+05	10.708
2150.0	42.225	2.79694E+05	338.19	-4.47405E+05	10.870
2200.0	42.222	2.81805E+05	339.16	-4.64339E+05	11.025
2250.0	42.213	2.83916E+05	340.11	-4.81321E+05	11.174
2300.0	42.202	2.86026E+05	341.03	-4.98349E+05	11.318
2350.0	42.190	2.88136E+05	341.94	-5.15424E+05	11.456
2400.0	42.184	2.90245E+05	342.83	-5.32543E+05	11.590
2450.0	42.184	2.92355E+05	343.70	-5.49706E+05	11.720
2500.0	42.189	2.94464E+05	344.55	-5.66912E+05	11.845
2550.0	42.198	2.96574E+05	345.39	-5.84161E+05	11.966
2600.0	42.212	2.98684E+05	346.21	-6.01451E+05	12.083
2650.0	42.230	3.00795E+05	347.01	-6.18781E+05	12.197
2700.0	42.250	3.02907E+05	347.80	-6.36152E+05	12.307
2750.0	42.274	3.05020E+05	348.57	-6.53561E+05	12.414
2800.0	42.301	3.07134E+05	349.34	-6.71009E+05	12.518
2850.0	42.330	3.09250E+05	350.09	-6.88494E+05	12.618
2900.0	42.361	3.11367E+05	350.82	-7.06017E+05	12.716
2950.0	42.394	3.13486E+05	351.55	-7.23576E+05	12.812
3000.0	42.429	3.15607E+05	352.26	-7.41172E+05	12.905

As₂Te₃

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	127.49	-37656.	226.35	-1.05143E+05	18.420
300.00	127.83	-37420.	227.14	-1.05563E+05	18.380
350.00	135.53	-30825.	247.46	-1.17436E+05	17.526
400.00	141.30	-23899.	265.95	-1.30278E+05	17.012
450.00	145.96	-16713.	282.87	-1.44005E+05	16.715
500.00	149.92	-9314.0	298.46	-1.58543E+05	16.562
550.00	153.43	-1728.6	312.92	-1.73832E+05	16.509
600.00	156.63	6024.0	326.40	-1.89819E+05	16.525
648.00	159.50	13612.	338.57	-2.05781E+05	16.587
648.00	167.36	59636.	409.59	-2.05781E+05	16.587
650.00	167.36	59970.	410.11	-2.06601E+05	16.602
700.00	167.36	68338.	422.51	-2.27420E+05	16.970
750.00	167.36	76706.	434.06	-2.48838E+05	17.330
800.00	167.36	85074.	444.86	-2.70813E+05	17.682

At<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.786	1.13449E+05	187.07	57675.	-10.104
300.00	20.786	1.13487E+05	187.20	57329.	-9.9816
350.00	20.786	1.14527E+05	190.40	47887.	-7.1465
400.00	20.786	1.15566E+05	193.18	38296.	-5.0008
450.00	20.786	1.16605E+05	195.62	28575.	-3.3168
500.00	20.786	1.17645E+05	197.81	18738.	-1.9575
550.00	20.786	1.18684E+05	199.79	8796.9	-0.83543
600.00	20.786	1.19723E+05	201.60	-1238.7	0.10784
650.00	20.786	1.20763E+05	203.27	-11361.	0.91296
700.00	20.786	1.21802E+05	204.81	-21563.	1.6090
750.00	20.786	1.22841E+05	206.24	-31840.	2.2175
800.00	20.786	1.23880E+05	207.58	-42186.	2.7544
850.00	20.786	1.24920E+05	208.84	-52597.	3.2321
900.00	20.786	1.25959E+05	210.03	-63069.	3.6603
950.00	20.786	1.26998E+05	211.16	-73599.	4.0467
1000.0	20.786	1.28038E+05	212.22	-84184.	4.3972
1050.0	20.786	1.29077E+05	213.24	-94820.	4.7169
1100.0	20.786	1.30116E+05	214.20	-1.05506E+05	5.0100
1150.0	20.786	1.31156E+05	215.13	-1.16240E+05	5.2796
1200.0	20.786	1.32195E+05	216.01	-1.27018E+05	5.5288
1250.0	20.786	1.33234E+05	216.86	-1.37840E+05	5.7599
1300.0	20.786	1.34273E+05	217.67	-1.48704E+05	5.9748
1350.0	20.786	1.35313E+05	218.46	-1.59607E+05	6.1754
1400.0	20.786	1.36352E+05	219.22	-1.70549E+05	6.3631
1450.0	20.786	1.37391E+05	219.94	-1.81528E+05	6.5392
1500.0	20.786	1.38431E+05	220.65	-1.92543E+05	6.7048
1550.0	20.786	1.39470E+05	221.33	-2.03593E+05	6.8609
1600.0	20.786	1.40509E+05	221.99	-2.14676E+05	7.0083
1650.0	20.786	1.41549E+05	222.63	-2.25792E+05	7.1478
1700.0	20.786	1.42588E+05	223.25	-2.36939E+05	7.2801
1750.0	20.786	1.43627E+05	223.85	-2.48117E+05	7.4057
1800.0	20.786	1.44666E+05	224.44	-2.59324E+05	7.5252
1850.0	20.786	1.45706E+05	225.01	-2.70560E+05	7.6391
1900.0	20.786	1.46745E+05	225.56	-2.81825E+05	7.7477
1950.0	20.786	1.47784E+05	226.10	-2.93116E+05	7.8515
2000.0	20.786	1.48824E+05	226.63	-3.04435E+05	7.9508
2050.0	20.786	1.49863E+05	227.14	-3.15779E+05	8.0459
2100.0	20.786	1.50902E+05	227.64	-3.27149E+05	8.1372
2150.0	20.786	1.51942E+05	228.13	-3.38543E+05	8.2248
2200.0	20.789	1.52981E+05	228.61	-3.49962E+05	8.3089
2250.0	20.788	1.54020E+05	229.08	-3.61404E+05	8.3899
2300.0	20.787	1.55060E+05	229.53	-3.72869E+05	8.4679
2350.0	20.786	1.56099E+05	229.98	-3.84357E+05	8.5431
2400.0	20.785	1.57138E+05	230.42	-3.95867E+05	8.6156
2450.0	20.785	1.58178E+05	230.85	-4.07399E+05	8.6856
2500.0	20.785	1.59217E+05	231.27	-4.18952E+05	8.7533
2550.0	20.785	1.60256E+05	231.68	-4.30526E+05	8.8187
2600.0	20.785	1.61295E+05	232.08	-4.42120E+05	8.8821
2650.0	20.785	1.62334E+05	232.48	-4.53734E+05	8.9434
2700.0	20.786	1.63374E+05	232.87	-4.65367E+05	9.0028
2750.0	20.787	1.64413E+05	233.25	-4.77020E+05	9.0605
2800.0	20.788	1.65452E+05	233.62	-4.88692E+05	9.1164
2850.0	20.789	1.66492E+05	233.99	-5.00382E+05	9.1707
2900.0	20.791	1.67531E+05	234.35	-5.12091E+05	9.2235
2950.0	20.792	1.68571E+05	234.71	-5.23818E+05	9.2748
3000.0	20.794	1.69611E+05	235.06	-5.35562E+05	9.3247

At2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.000	0.00000E+00	54.000	-16100.	2.8206
300.00	54.055	99.952	54.334	-16200.	2.8207
350.00	55.541	2839.9	62.778	-19133.	2.8553
400.00	57.027	5654.1	70.292	-22463.	2.9333
450.00	58.513	8542.6	77.095	-26150.	3.0353
500.00	59.999	11505.	83.336	-30163.	3.1510
500.00	80.000	31505.	123.34	-30163.	3.1510
500.00	80.000	31505.	123.34	-30163.	3.1510
550.00	80.000	35505.	130.96	-36523.	3.4686
600.00	80.000	39505.	137.92	-43248.	3.7650
650.00	80.000	43505.	144.33	-50306.	4.0426
700.00	80.000	47505.	150.25	-57673.	4.3035
750.00	80.000	51505.	155.77	-65325.	4.5495
800.00	80.000	55505.	160.94	-73244.	4.7822
850.00	80.000	59505.	165.79	-81413.	5.0029
900.00	80.000	63505.	170.36	-89818.	5.2128
950.00	80.000	67505.	174.68	-98445.	5.4128
1000.0	80.000	71505.	178.79	-1.07283E+05	5.6037

Au

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.298	0.00000E+00	47.488	-14159.	2.4805
300.00	25.303	46.806	47.645	-14247.	2.4805
350.00	25.480	1316.2	51.558	-16729.	2.4966
400.00	25.694	2595.4	54.974	-19394.	2.5325
450.00	25.924	3885.8	58.013	-22220.	2.5792
500.00	26.158	5187.9	60.757	-25190.	2.6316
550.00	26.388	6501.6	63.261	-28292.	2.6869
600.00	26.612	7826.6	65.566	-31513.	2.7434
650.00	26.826	9162.6	67.705	-34846.	2.8002
700.00	27.029	10509.	69.700	-38281.	2.8565
750.00	27.231	11866.	71.572	-41814.	2.9121
800.00	27.427	13232.	73.336	-45437.	2.9666
850.00	27.635	14608.	75.005	-49146.	3.0200
900.00	27.872	15996.	76.591	-52936.	3.0722
950.00	28.148	17396.	78.105	-56804.	3.1232
1000.0	28.472	18812.	79.557	-60745.	3.1729
1050.0	28.850	20244.	80.955	-64758.	3.2215
1100.0	29.288	21698.	82.307	-68840.	3.2689
1150.0	29.809	23175.	83.620	-72988.	3.3152
1200.0	30.430	24680.	84.901	-77202.	3.3604
1250.0	31.212	26220.	86.159	-81478.	3.4047
1300.0	32.216	27804.	87.401	-85817.	3.4481
1337.3	33.403	29027.	88.329	-89097.	3.4799
1337.3	33.358	41579.	97.715	-89097.	3.4799
1350.0	33.083	42000.	98.028	-90337.	3.4953
1400.0	32.218	43631.	99.214	-95269.	3.5544
1450.0	31.644	45227.	100.33	-1.00257E+05	3.6116
1500.0	31.288	46799.	101.40	-1.05301E+05	3.6668
1550.0	31.090	48358.	102.42	-1.10397E+05	3.7203
1600.0	30.996	49910.	103.41	-1.15543E+05	3.7720
1650.0	30.962	51459.	104.36	-1.20737E+05	3.8221
1700.0	30.962	53007.	105.29	-1.25978E+05	3.8707
1750.0	30.962	54555.	106.18	-1.31265E+05	3.9180
1800.0	30.962	56103.	107.06	-1.36596E+05	3.9638
1850.0	30.962	57651.	107.90	-1.41970E+05	4.0084
1900.0	30.962	59199.	108.73	-1.47386E+05	4.0518
1950.0	30.962	60747.	109.53	-1.52843E+05	4.0941
2000.0	30.962	62296.	110.32	-1.58339E+05	4.1353
2050.0	30.962	63844.	111.08	-1.63874E+05	4.1755
2100.0	30.962	65392.	111.83	-1.69447E+05	4.2147
2150.0	30.962	66940.	112.56	-1.75057E+05	4.2529
2200.0	30.962	68488.	113.27	-1.80702E+05	4.2903
2250.0	30.962	70036.	113.96	-1.86383E+05	4.3269
2300.0	30.962	71584.	114.64	-1.92099E+05	4.3626
2350.0	30.962	73132.	115.31	-1.97848E+05	4.3975
2400.0	30.962	74680.	115.96	-2.03629E+05	4.4318
2450.0	30.962	76228.	116.60	-2.09444E+05	4.4653
2500.0	30.962	77777.	117.23	-2.15289E+05	4.4981
2550.0	30.962	79325.	117.84	-2.21166E+05	4.5303
2600.0	30.962	80873.	118.44	-2.27073E+05	4.5618
2650.0	30.962	82421.	119.03	-2.33010E+05	4.5928
2700.0	30.962	83969.	119.61	-2.38976E+05	4.6232
2750.0	30.962	85517.	120.18	-2.44971E+05	4.6530
2800.0	30.962	87065.	120.74	-2.50993E+05	4.6822
2850.0	30.962	88613.	121.28	-2.57044E+05	4.7110
2900.0	30.962	90161.	121.82	-2.63122E+05	4.7392
2950.0	30.962	91709.	122.35	-2.69226E+05	4.7670
3000.0	30.962	93258.	122.87	-2.75357E+05	4.7943

Au2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.006	5.10815E+05	269.45	4.30480E+05	-75.416
300.00	37.014	5.10883E+05	269.67	4.29981E+05	-74.864
350.00	37.180	5.12739E+05	275.39	4.16351E+05	-62.135
400.00	37.299	5.14601E+05	280.37	4.02454E+05	-52.554
450.00	37.391	5.16468E+05	284.77	3.88324E+05	-45.074
500.00	37.466	5.18340E+05	288.71	3.73985E+05	-39.069
550.00	37.530	5.20215E+05	292.28	3.59459E+05	-34.138
600.00	37.587	5.22092E+05	295.55	3.44762E+05	-30.013
650.00	37.638	5.23973E+05	298.56	3.29908E+05	-26.511
700.00	37.687	5.25856E+05	301.35	3.14909E+05	-23.498
750.00	37.732	5.27742E+05	303.95	2.99776E+05	-20.878
800.00	37.776	5.29629E+05	306.39	2.84517E+05	-18.577
850.00	37.819	5.31519E+05	308.68	2.69139E+05	-16.539
900.00	37.861	5.33411E+05	310.85	2.53650E+05	-14.721
950.00	37.902	5.35305E+05	312.89	2.38057E+05	-13.089
1000.0	37.943	5.37202E+05	314.84	2.22363E+05	-11.615
1050.0	37.983	5.39100E+05	316.69	2.06574E+05	-10.276
1100.0	38.024	5.41000E+05	318.46	1.90695E+05	-9.0551
1150.0	38.064	5.42902E+05	320.15	1.74730E+05	-7.9363
1200.0	38.104	5.44806E+05	321.77	1.58681E+05	-6.9070
1250.0	38.145	5.46712E+05	323.33	1.42554E+05	-5.9568
1300.0	38.185	5.48621E+05	324.82	1.26350E+05	-5.0767
1350.0	38.226	5.50531E+05	326.27	1.10072E+05	-4.2588
1400.0	38.267	5.52443E+05	327.66	93724.	-3.4968
1450.0	38.308	5.54358E+05	329.00	77307.	-2.7848
1500.0	38.350	5.56274E+05	330.30	60825.	-2.1180
1550.0	38.392	5.58193E+05	331.56	44278.	-1.4921
1600.0	38.434	5.60113E+05	332.78	27669.	-0.90329
1650.0	38.476	5.62036E+05	333.96	11001.	-0.34825
1700.0	38.519	5.63961E+05	335.11	-5726.1	0.17594
1750.0	38.562	5.65888E+05	336.23	-22510.	0.67186
1800.0	38.606	5.67817E+05	337.31	-39348.	1.1418
1850.0	38.650	5.69749E+05	338.37	-56241.	1.5879
1900.0	38.694	5.71682E+05	339.40	-73185.	2.0119
1950.0	38.739	5.73618E+05	340.41	-90181.	2.4156
2000.0	38.784	5.75556E+05	341.39	-1.07226E+05	2.8004
2050.0	38.829	5.77496E+05	342.35	-1.24319E+05	3.1676
2100.0	38.875	5.79439E+05	343.29	-1.41460E+05	3.5185
2150.0	38.921	5.81384E+05	344.20	-1.58647E+05	3.8543
2200.0	38.968	5.83331E+05	345.10	-1.75880E+05	4.1758
2250.0	39.015	5.85281E+05	345.97	-1.93157E+05	4.4841
2300.0	39.063	5.87233E+05	346.83	-2.10477E+05	4.7800
2350.0	39.110	5.89187E+05	347.67	-2.27839E+05	5.0642
2400.0	39.159	5.91144E+05	348.49	-2.45244E+05	5.3375
2450.0	39.207	5.93103E+05	349.30	-2.62689E+05	5.6004
2500.0	39.255	5.95064E+05	350.10	-2.80174E+05	5.8538
2550.0	39.307	5.97029E+05	350.87	-2.97698E+05	6.0979
2600.0	39.352	5.98995E+05	351.64	-3.15261E+05	6.3335
2650.0	39.391	6.00964E+05	352.39	-3.32861E+05	6.5609
2700.0	39.425	6.02934E+05	353.12	-3.50499E+05	6.7806
2750.0	39.453	6.04906E+05	353.85	-3.68174E+05	6.9931
2800.0	39.477	6.06879E+05	354.56	-3.85884E+05	7.1986
2850.0	39.496	6.08854E+05	355.26	-4.03629E+05	7.3975
2900.0	39.510	6.10829E+05	355.94	-4.21409E+05	7.5902
2950.0	39.520	6.12805E+05	356.62	-4.39223E+05	7.7770
3000.0	39.525	6.14781E+05	357.28	-4.57071E+05	7.9581

AuBr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.165	-14226.	98.253	-43520.	7.6243
300.00	52.216	-14129.	98.576	-43702.	7.6090
350.00	53.597	-11484.	106.73	-48839.	7.2886
400.00	54.978	-8769.3	113.98	-54360.	7.0985

AuC<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.020	7.17054E+05	242.36	6.44793E+05	-112.96
300.00	33.088	7.17115E+05	242.57	6.44345E+05	-112.19
350.00	34.682	7.18811E+05	247.79	6.32083E+05	-94.331
400.00	35.932	7.20578E+05	252.51	6.19574E+05	-80.906
450.00	36.925	7.22400E+05	256.80	6.06840E+05	-70.438
500.00	37.706	7.24266E+05	260.73	5.93900E+05	-62.043
550.00	38.303	7.26167E+05	264.36	5.80771E+05	-55.156
600.00	38.730	7.28094E+05	267.71	5.67469E+05	-49.401
650.00	38.998	7.30038E+05	270.82	5.54005E+05	-44.519
700.00	39.112	7.31991E+05	273.72	5.40390E+05	-40.323
750.00	39.179	7.33949E+05	276.42	5.26636E+05	-36.677
800.00	39.209	7.35908E+05	278.95	5.12752E+05	-33.478
850.00	39.211	7.37869E+05	281.32	4.98744E+05	-30.648
900.00	39.193	7.39829E+05	283.56	4.84622E+05	-28.126
950.00	39.160	7.41788E+05	285.68	4.70390E+05	-25.863
1000.0	39.116	7.43745E+05	287.69	4.56055E+05	-23.821
1050.0	39.064	7.45700E+05	289.60	4.41623E+05	-21.969
1100.0	39.006	7.47651E+05	291.41	4.27097E+05	-20.281
1150.0	38.944	7.49600E+05	293.15	4.12483E+05	-18.735
1200.0	38.880	7.51546E+05	294.80	3.97784E+05	-17.315
1250.0	38.816	7.53488E+05	296.39	3.83004E+05	-16.004
1300.0	38.751	7.55427E+05	297.91	3.68146E+05	-14.792
1350.0	38.686	7.57363E+05	299.37	3.53214E+05	-13.666
1400.0	38.623	7.59296E+05	300.78	3.38210E+05	-12.618
1450.0	38.562	7.61225E+05	302.13	3.23137E+05	-11.640
1500.0	38.503	7.63152E+05	303.44	3.07998E+05	-10.725
1550.0	38.447	7.65076E+05	304.70	2.92794E+05	-9.8668
1600.0	38.395	7.66997E+05	305.92	2.77529E+05	-9.0602
1650.0	38.345	7.68915E+05	307.10	2.62203E+05	-8.3004
1700.0	38.299	7.70831E+05	308.24	2.46819E+05	-7.5836
1750.0	38.257	7.72745E+05	309.35	2.31379E+05	-6.9061
1800.0	38.218	7.74657E+05	310.43	2.15885E+05	-6.2647
1850.0	38.184	7.76567E+05	311.48	2.00337E+05	-5.6564
1900.0	38.154	7.78476E+05	312.49	1.84738E+05	-5.0787
1950.0	38.129	7.80383E+05	313.48	1.69088E+05	-4.5292
2000.0	38.108	7.82289E+05	314.45	1.53390E+05	-4.0060
2050.0	38.091	7.84194E+05	315.39	1.37644E+05	-3.5071
2100.0	38.079	7.86098E+05	316.31	1.21851E+05	-3.0308
2150.0	38.059	7.88001E+05	317.20	1.06013E+05	-2.5755
2200.0	38.039	7.89904E+05	318.08	90131.	-2.1399
2250.0	38.018	7.91805E+05	318.93	74206.	-1.7227
2300.0	37.998	7.93706E+05	319.77	58238.	-1.3226
2350.0	37.978	7.95605E+05	320.59	42229.	-0.93862
2400.0	37.957	7.97503E+05	321.38	26180.	-0.56977
2450.0	37.937	7.99401E+05	322.17	10091.	-0.21514
2500.0	37.917	8.01297E+05	322.93	-6036.7	0.12613
2550.0	37.896	8.03192E+05	323.68	-22202.	0.45478
2600.0	37.876	8.05087E+05	324.42	-38405.	0.77154
2650.0	37.856	8.06980E+05	325.14	-54644.	1.0771
2700.0	37.835	8.08872E+05	325.85	-70919.	1.3720
2750.0	37.815	8.10763E+05	326.54	-87229.	1.6568
2800.0	37.795	8.12654E+05	327.22	-1.03573E+05	1.9321
2850.0	37.774	8.14543E+05	327.89	-1.19951E+05	2.1984
2900.0	37.754	8.16431E+05	328.55	-1.36362E+05	2.4561
2950.0	37.734	8.18318E+05	329.19	-1.52805E+05	2.7056
3000.0	37.713	8.20204E+05	329.83	-1.69281E+05	2.9474

AuCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.492	1.50000E+05	252.37	74757.	-13.097
300.00	35.518	1.50066E+05	252.59	74290.	-12.935
350.00	36.068	1.51856E+05	258.11	61520.	-9.1811
400.00	36.425	1.53669E+05	262.95	48491.	-6.3321
450.00	36.670	1.55497E+05	267.25	35234.	-4.0897
500.00	36.846	1.57335E+05	271.13	21773.	-2.2745
550.00	36.977	1.59181E+05	274.64	8127.2	-0.77184
600.00	37.078	1.61032E+05	277.87	-5686.7	0.49506
650.00	37.157	1.62888E+05	280.84	-19655.	1.5795
700.00	37.221	1.64748E+05	283.59	-33767.	2.5196
750.00	37.275	1.66610E+05	286.16	-48011.	3.3437
800.00	37.320	1.68475E+05	288.57	-62380.	4.0729
850.00	37.359	1.70342E+05	290.83	-76866.	4.7235
900.00	37.393	1.72211E+05	292.97	-91461.	5.3081
950.00	37.424	1.74082E+05	294.99	-1.06161E+05	5.8370
1000.0	37.452	1.75953E+05	296.91	-1.20959E+05	6.3181
1050.0	37.479	1.77827E+05	298.74	-1.35851E+05	6.7580
1100.0	37.503	1.79701E+05	300.48	-1.50832E+05	7.1622
1150.0	37.527	1.81577E+05	302.15	-1.65898E+05	7.5351
1200.0	37.550	1.83454E+05	303.75	-1.81046E+05	7.8805
1250.0	37.572	1.85332E+05	305.28	-1.96272E+05	8.2015
1300.0	37.594	1.87211E+05	306.76	-2.11573E+05	8.5009
1350.0	37.616	1.89091E+05	308.18	-2.26946E+05	8.7809
1400.0	37.637	1.90973E+05	309.54	-2.42390E+05	9.0434
1450.0	37.659	1.92855E+05	310.87	-2.57900E+05	9.2903
1500.0	37.681	1.94739E+05	312.14	-2.73475E+05	9.5230
1550.0	37.703	1.96623E+05	313.38	-2.89114E+05	9.7428
1600.0	37.725	1.98509E+05	314.58	-3.04813E+05	9.9509
1650.0	37.748	2.00396E+05	315.74	-3.20571E+05	10.148
1700.0	37.772	2.02284E+05	316.86	-3.36386E+05	10.336
1750.0	37.795	2.04173E+05	317.96	-3.52257E+05	10.514
1800.0	37.820	2.06063E+05	319.02	-3.68181E+05	10.684
1850.0	37.844	2.07955E+05	320.06	-3.84159E+05	10.846
1900.0	37.870	2.09848E+05	321.07	-4.00187E+05	11.002
1950.0	37.896	2.11742E+05	322.05	-4.16265E+05	11.150
2000.0	37.922	2.13637E+05	323.01	-4.32392E+05	11.293
2050.0	37.949	2.15534E+05	323.95	-4.48566E+05	11.429
2100.0	37.977	2.17432E+05	324.87	-4.64787E+05	11.561
2150.0	38.006	2.19332E+05	325.76	-4.81053E+05	11.687
2200.0	38.035	2.21233E+05	326.63	-4.97363E+05	11.809
2250.0	38.065	2.23135E+05	327.49	-5.13716E+05	11.926
2300.0	38.095	2.25039E+05	328.33	-5.30111E+05	12.039
2350.0	38.126	2.26945E+05	329.15	-5.46548E+05	12.148
2400.0	38.158	2.28852E+05	329.95	-5.63026E+05	12.254
2450.0	38.191	2.30761E+05	330.74	-5.79543E+05	12.356
2500.0	38.224	2.32671E+05	331.51	-5.96099E+05	12.454
2550.0	38.259	2.34583E+05	332.27	-6.12693E+05	12.550
2600.0	38.293	2.36497E+05	333.01	-6.29325E+05	12.643
2650.0	38.329	2.38412E+05	333.74	-6.45994E+05	12.733
2700.0	38.365	2.40330E+05	334.46	-6.62699E+05	12.820
2750.0	38.402	2.42249E+05	335.16	-6.79439E+05	12.905
2800.0	38.440	2.44170E+05	335.85	-6.96215E+05	12.988
2850.0	38.479	2.46093E+05	336.53	-7.13024E+05	13.068
2900.0	38.518	2.48018E+05	337.20	-7.29868E+05	13.146
2950.0	38.559	2.49945E+05	337.86	-7.46744E+05	13.222
3000.0	38.599	2.51874E+05	338.51	-7.63653E+05	13.296

AuCl3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	100.32	-1.18407E+05	164.36	-1.67411E+05	29.329
300.00	100.42	-1.18222E+05	164.98	-1.67716E+05	29.201
350.00	103.03	-1.13135E+05	180.66	-1.76365E+05	26.320
400.00	105.65	-1.07918E+05	194.59	-1.85752E+05	24.256
450.00	108.26	-1.02571E+05	207.18	-1.95801E+05	22.727
500.00	110.88	-97092.	218.72	-2.06453E+05	21.567

AuD<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.370	3.00000E+05	216.95	2.35317E+05	-41.226
300.00	29.378	3.00054E+05	217.13	2.34915E+05	-40.901
350.00	29.701	3.01531E+05	221.68	2.23942E+05	-33.421
400.00	30.122	3.03026E+05	225.67	2.12757E+05	-27.782
450.00	30.586	3.04544E+05	229.25	2.01382E+05	-23.375
500.00	31.067	3.06085E+05	232.50	1.89837E+05	-19.832
550.00	31.547	3.07650E+05	235.48	1.78137E+05	-16.918
600.00	32.017	3.09239E+05	238.24	1.66293E+05	-14.477
650.00	32.471	3.10852E+05	240.82	1.54316E+05	-12.401
700.00	32.905	3.12486E+05	243.25	1.42213E+05	-10.612
750.00	33.315	3.14142E+05	245.53	1.29993E+05	-9.0533
800.00	33.701	3.15817E+05	247.69	1.17662E+05	-7.6823
850.00	34.061	3.17512E+05	249.75	1.05225E+05	-6.4662
900.00	34.393	3.19223E+05	251.70	92689.	-5.3794
950.00	34.697	3.20950E+05	253.57	80057.	-4.4017
1000.0	34.973	3.22692E+05	255.36	67333.	-3.5170
1050.0	35.219	3.24447E+05	257.07	54522.	-2.7122
1100.0	35.437	3.26214E+05	258.72	41627.	-1.9766
1150.0	35.625	3.27990E+05	260.29	28651.	-1.3014
1200.0	35.780	3.29776E+05	261.81	15598.	-0.67896
1250.0	35.981	3.31570E+05	263.28	2470.8	-0.10325
1300.0	36.160	3.33373E+05	264.69	-10729.	0.43107
1350.0	36.320	3.35185E+05	266.06	-23998.	0.92851
1400.0	36.463	3.37005E+05	267.39	-37334.	1.3929
1450.0	36.593	3.38832E+05	268.67	-50736.	1.8276
1500.0	36.711	3.40664E+05	269.91	-64200.	2.2356
1550.0	36.819	3.42502E+05	271.12	-77726.	2.6193
1600.0	36.918	3.44346E+05	272.29	-91311.	2.9809
1650.0	37.008	3.46194E+05	273.42	-1.04954E+05	3.3225
1700.0	37.093	3.48047E+05	274.53	-1.18653E+05	3.6457
1750.0	37.171	3.49903E+05	275.61	-1.32406E+05	3.9520
1800.0	37.244	3.51764E+05	276.65	-1.46213E+05	4.2429
1850.0	37.312	3.53628E+05	277.68	-1.60071E+05	4.5195
1900.0	37.376	3.55495E+05	278.67	-1.73980E+05	4.7829
1950.0	37.437	3.57365E+05	279.64	-1.87938E+05	5.0342
2000.0	37.495	3.59238E+05	280.59	-2.01944E+05	5.2741
2050.0	37.550	3.61115E+05	281.52	-2.15997E+05	5.5035
2100.0	37.603	3.62993E+05	282.42	-2.30095E+05	5.7232
2150.0	37.653	3.64875E+05	283.31	-2.44239E+05	5.9337
2200.0	37.702	3.66759E+05	284.17	-2.58426E+05	6.1357
2250.0	37.749	3.68645E+05	285.02	-2.72656E+05	6.3297
2300.0	37.794	3.70534E+05	285.85	-2.86928E+05	6.5162
2350.0	37.839	3.72424E+05	286.67	-3.01241E+05	6.6957
2400.0	37.882	3.74317E+05	287.46	-3.15594E+05	6.8686
2450.0	37.924	3.76213E+05	288.24	-3.29987E+05	7.0352
2500.0	37.966	3.78110E+05	289.01	-3.44418E+05	7.1960
2550.0	38.007	3.80009E+05	289.76	-3.58888E+05	7.3513
2600.0	38.047	3.81910E+05	290.50	-3.73395E+05	7.5014
2650.0	38.087	3.83814E+05	291.23	-3.87938E+05	7.6465
2700.0	38.127	3.85719E+05	291.94	-4.02517E+05	7.7870
2750.0	38.166	3.87626E+05	292.64	-4.17132E+05	7.9230
2800.0	38.205	3.89536E+05	293.33	-4.31781E+05	8.0548
2850.0	38.244	3.91447E+05	294.00	-4.46464E+05	8.1826
2900.0	38.283	3.93360E+05	294.67	-4.61181E+05	8.3066
2950.0	38.322	3.95275E+05	295.32	-4.75931E+05	8.4269
3000.0	38.360	3.97192E+05	295.97	-4.90713E+05	8.5439

AuF3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	91.280	-3.48527E+05	114.22	-3.82583E+05	67.025
300.00	91.365	-3.48358E+05	114.79	-3.82795E+05	66.649
350.00	93.242	-3.43740E+05	129.02	-3.88898E+05	58.038
400.00	94.600	-3.39043E+05	141.57	-3.95669E+05	51.668
450.00	95.656	-3.34285E+05	152.77	-4.03032E+05	46.782
500.00	96.525	-3.29480E+05	162.90	-4.10928E+05	42.928
550.00	97.271	-3.24635E+05	172.13	-4.19307E+05	39.821
600.00	97.933	-3.19754E+05	180.62	-4.28129E+05	37.271

AuH<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.161	2.96000E+05	211.18	2.33038E+05	-40.826
300.00	29.156	2.96054E+05	211.36	2.32647E+05	-40.506
350.00	29.143	2.97511E+05	215.85	2.21964E+05	-33.125
400.00	29.293	2.98971E+05	219.75	2.11072E+05	-27.562
450.00	29.532	3.00441E+05	223.21	1.99997E+05	-23.214
500.00	29.822	3.01925E+05	226.34	1.88757E+05	-19.719
550.00	30.141	3.03424E+05	229.19	1.77367E+05	-16.845
600.00	30.475	3.04939E+05	231.83	1.65841E+05	-14.437
650.00	30.816	3.06472E+05	234.28	1.54187E+05	-12.390
700.00	31.159	3.08021E+05	236.58	1.42415E+05	-10.627
750.00	31.499	3.09587E+05	238.74	1.30532E+05	-9.0908
800.00	31.835	3.11171E+05	240.78	1.18543E+05	-7.7399
850.00	32.165	3.12771E+05	242.72	1.06455E+05	-6.5418
900.00	32.487	3.14387E+05	244.57	94272.	-5.4713
950.00	32.799	3.16019E+05	246.34	81999.	-4.5085
1000.0	33.102	3.17667E+05	248.03	69640.	-3.6375
1050.0	33.395	3.19329E+05	249.65	57198.	-2.8453
1100.0	33.678	3.21006E+05	251.21	44676.	-2.1214
1150.0	33.949	3.22697E+05	252.71	32078.	-1.4570
1200.0	34.209	3.24401E+05	254.16	19405.	-0.84467
1250.0	34.457	3.26118E+05	255.56	6662.0	-0.27838
1300.0	34.694	3.27847E+05	256.92	-6150.3	0.24712
1350.0	34.918	3.29587E+05	258.23	-19029.	0.73627
1400.0	35.131	3.31338E+05	259.51	-31973.	1.1929
1450.0	35.332	3.33100E+05	260.74	-44980.	1.6203
1500.0	35.520	3.34871E+05	261.95	-58047.	2.0213
1550.0	35.696	3.36652E+05	263.11	-71173.	2.3985
1600.0	35.860	3.38441E+05	264.25	-84358.	2.7539
1650.0	36.012	3.40237E+05	265.35	-97598.	3.0896
1700.0	36.151	3.42042E+05	266.43	-1.10893E+05	3.4072
1750.0	36.277	3.43852E+05	267.48	-1.24241E+05	3.7083
1800.0	36.391	3.45669E+05	268.51	-1.37640E+05	3.9941
1850.0	36.493	3.47491E+05	269.50	-1.51091E+05	4.2659
1900.0	36.582	3.49318E+05	270.48	-1.64590E+05	4.5248
1950.0	36.658	3.51149E+05	271.43	-1.78138E+05	4.7717
2000.0	36.720	3.52984E+05	272.36	-1.91733E+05	5.0074
2050.0	36.839	3.54823E+05	273.27	-2.05374E+05	5.2329
2100.0	36.948	3.56668E+05	274.16	-2.19059E+05	5.4487
2150.0	37.048	3.58517E+05	275.03	-2.32789E+05	5.6555
2200.0	37.140	3.60372E+05	275.88	-2.46562E+05	5.8540
2250.0	37.226	3.62231E+05	276.71	-2.60377E+05	6.0446
2300.0	37.305	3.64095E+05	277.53	-2.74233E+05	6.2279
2350.0	37.379	3.65962E+05	278.34	-2.88130E+05	6.4042
2400.0	37.449	3.67833E+05	279.12	-3.02066E+05	6.5741
2450.0	37.513	3.69707E+05	279.90	-3.16042E+05	6.7379
2500.0	37.574	3.71584E+05	280.66	-3.30056E+05	6.8960
2550.0	37.632	3.73464E+05	281.40	-3.44107E+05	7.0486
2600.0	37.687	3.75347E+05	282.13	-3.58196E+05	7.1961
2650.0	37.739	3.77233E+05	282.85	-3.72320E+05	7.3387
2700.0	37.789	3.79121E+05	283.56	-3.86480E+05	7.4767
2750.0	37.837	3.81011E+05	284.25	-4.00676E+05	7.6104
2800.0	37.883	3.82904E+05	284.93	-4.14905E+05	7.7400
2850.0	37.927	3.84800E+05	285.60	-4.29169E+05	7.8656
2900.0	37.971	3.86697E+05	286.26	-4.43465E+05	7.9875
2950.0	38.013	3.88597E+05	286.91	-4.57795E+05	8.1058
3000.0	38.055	3.90498E+05	287.55	-4.72156E+05	8.2208

AuH3O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	94.000	-4.24701E+05	189.50	-4.81201E+05	84.302
300.00	94.375	-4.24527E+05	190.08	-4.81552E+05	83.844
350.00	104.50	-4.19555E+05	205.39	-4.91442E+05	73.342
400.00	114.63	-4.14076E+05	220.01	-5.02080E+05	65.563

AuI

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.157	1255.2	111.09	-31867.	5.5829
300.00	52.216	1351.7	111.42	-32073.	5.5843
350.00	53.806	4002.3	119.59	-37853.	5.6490
400.00	55.396	6732.4	126.87	-44017.	5.7479

AuO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.242	3.84635E+05	249.77	3.10166E+05	-54.339
300.00	36.256	3.84702E+05	249.99	3.09704E+05	-53.923
350.00	36.550	3.86523E+05	255.61	2.97061E+05	-44.333
400.00	36.743	3.88356E+05	260.50	2.84156E+05	-37.106
450.00	36.875	3.90196E+05	264.84	2.71020E+05	-31.458
500.00	36.971	3.92042E+05	268.73	2.57679E+05	-26.919
550.00	37.042	3.93893E+05	272.25	2.44154E+05	-23.187
600.00	37.097	3.95746E+05	275.48	2.30459E+05	-20.063
650.00	37.140	3.97602E+05	278.45	2.16610E+05	-17.407
700.00	37.175	3.99460E+05	281.20	2.02618E+05	-15.119
750.00	37.203	4.01320E+05	283.77	1.88493E+05	-13.127
800.00	37.227	4.03180E+05	286.17	1.74243E+05	-11.377
850.00	37.246	4.05042E+05	288.43	1.59878E+05	-9.8247
900.00	37.263	4.06905E+05	290.56	1.45403E+05	-8.4387
950.00	37.278	4.08769E+05	292.57	1.30824E+05	-7.1930
1000.0	37.291	4.10633E+05	294.49	1.16147E+05	-6.0668
1050.0	37.302	4.12498E+05	296.31	1.01377E+05	-5.0431
1100.0	37.311	4.14363E+05	298.04	86518.	-4.1083
1150.0	37.320	4.16229E+05	299.70	71574.	-3.2509
1200.0	37.328	4.18095E+05	301.29	56549.	-2.4615
1250.0	37.335	4.19961E+05	302.81	41446.	-1.7319
1300.0	37.341	4.21828E+05	304.28	26269.	-1.0555
1350.0	37.347	4.23696E+05	305.69	11020.	-0.42637
1400.0	37.352	4.25563E+05	307.04	-4298.7	0.16038
1450.0	37.357	4.27431E+05	308.35	-19684.	0.70907
1500.0	37.361	4.29299E+05	309.62	-35133.	1.2234
1550.0	37.365	4.31167E+05	310.85	-50645.	1.7067
1600.0	37.368	4.33035E+05	312.03	-66217.	2.1617
1650.0	37.372	4.34904E+05	313.18	-81848.	2.5910
1700.0	37.375	4.36772E+05	314.30	-97535.	2.9968
1750.0	37.377	4.38641E+05	315.38	-1.13277E+05	3.3811
1800.0	37.380	4.40510E+05	316.43	-1.29073E+05	3.7455
1850.0	37.382	4.42379E+05	317.46	-1.44920E+05	4.0917
1900.0	37.384	4.44248E+05	318.46	-1.60818E+05	4.4211
1950.0	37.386	4.46118E+05	319.43	-1.76766E+05	4.7349
2000.0	37.388	4.47987E+05	320.37	-1.92761E+05	5.0343
2050.0	37.390	4.49856E+05	321.30	-2.08803E+05	5.3202
2100.0	37.391	4.51726E+05	322.20	-2.24890E+05	5.5937
2150.0	37.392	4.53596E+05	323.08	-2.41022E+05	5.8555
2200.0	37.394	4.55465E+05	323.94	-2.57197E+05	6.1065
2250.0	37.395	4.57335E+05	324.78	-2.73415E+05	6.3473
2300.0	37.395	4.59205E+05	325.60	-2.89675E+05	6.5786
2350.0	37.396	4.61074E+05	326.40	-3.05975E+05	6.8009
2400.0	37.397	4.62944E+05	327.19	-3.22315E+05	7.0148
2450.0	37.397	4.64814E+05	327.96	-3.38694E+05	7.2209
2500.0	37.398	4.66684E+05	328.72	-3.55111E+05	7.4195
2550.0	37.398	4.68554E+05	329.46	-3.71566E+05	7.6110
2600.0	37.398	4.70424E+05	330.18	-3.88057E+05	7.7960
2650.0	37.398	4.72294E+05	330.90	-4.04584E+05	7.9746
2700.0	37.398	4.74164E+05	331.60	-4.21146E+05	8.1474
2750.0	37.398	4.76033E+05	332.28	-4.37743E+05	8.3145
2800.0	37.398	4.77903E+05	332.96	-4.54374E+05	8.4762
2850.0	37.397	4.79773E+05	333.62	-4.71039E+05	8.6330
2900.0	37.397	4.81643E+05	334.27	-4.87736E+05	8.7848
2950.0	37.396	4.83513E+05	334.91	-5.04465E+05	8.9322
3000.0	37.396	4.85383E+05	335.54	-5.21226E+05	9.0751

Au2O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	114.02	-3430.9	130.33	-42289.	7.4087
300.00	114.06	-3219.9	131.04	-42531.	7.4051
350.00	115.14	2510.1	148.70	-49535.	7.3925
400.00	116.23	8294.4	164.15	-57364.	7.4908
450.00	117.32	14133.	177.90	-65922.	7.6518
500.00	118.41	20026.	190.32	-75132.	7.8488

Au2P3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.59	-97487.	150.62	-1.42396E+05	24.947
300.00	119.66	-97266.	151.36	-1.42675E+05	24.841
350.00	121.55	-91236.	169.95	-1.50719E+05	22.493
400.00	123.43	-85111.	186.30	-1.59633E+05	20.845
450.00	125.31	-78893.	200.95	-1.69321E+05	19.654
500.00	127.19	-72580.	214.25	-1.79706E+05	18.773
550.00	129.08	-66174.	226.46	-1.90728E+05	18.113
600.00	130.96	-59673.	237.77	-2.02337E+05	17.615
650.00	132.84	-53078.	248.33	-2.14493E+05	17.236
700.00	134.72	-46388.	258.24	-2.27159E+05	16.950
750.00	136.61	-39605.	267.60	-2.40308E+05	16.736
800.00	138.49	-32728.	276.48	-2.53912E+05	16.578
850.00	140.37	-25756.	284.93	-2.67949E+05	16.466
900.00	142.26	-18690.	293.01	-2.82399E+05	16.390
950.00	144.14	-11531.	300.75	-2.97244E+05	16.343
1000.0	146.02	-4276.5	308.19	-3.12469E+05	16.321

AuS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.515	2.30538E+05	267.68	1.50731E+05	-26.407
300.00	35.537	2.30604E+05	267.90	1.50235E+05	-26.158
350.00	36.017	2.32394E+05	273.41	1.36699E+05	-20.401
400.00	36.329	2.34203E+05	278.24	1.22906E+05	-16.049
450.00	36.544	2.36025E+05	282.54	1.08884E+05	-12.639
500.00	36.699	2.37857E+05	286.39	94659.	-9.8887
550.00	36.814	2.39694E+05	289.90	80250.	-7.6214
600.00	36.902	2.41537E+05	293.11	65674.	-5.7173
650.00	36.971	2.43384E+05	296.06	50944.	-4.0938
700.00	37.026	2.45234E+05	298.80	36072.	-2.6916
750.00	37.071	2.47087E+05	301.36	21067.	-1.4672
800.00	37.108	2.48941E+05	303.75	5938.4	-0.38773
850.00	37.140	2.50797E+05	306.00	-9306.1	0.57187
900.00	37.167	2.52655E+05	308.13	-24660.	1.4312
950.00	37.190	2.54514E+05	310.14	-40117.	2.2057
1000.0	37.210	2.56374E+05	312.05	-55672.	2.9079
1050.0	37.227	2.58235E+05	313.86	-71320.	3.5479
1100.0	37.243	2.60097E+05	315.59	-87057.	4.1339
1150.0	37.257	2.61959E+05	317.25	-1.02878E+05	4.6728
1200.0	37.269	2.63822E+05	318.84	-1.18781E+05	5.1703
1250.0	37.280	2.65686E+05	320.36	-1.34761E+05	5.6312
1300.0	37.291	2.67550E+05	321.82	-1.50815E+05	6.0597
1350.0	37.300	2.69415E+05	323.23	-1.66942E+05	6.4592
1400.0	37.309	2.71280E+05	324.58	-1.83137E+05	6.8328
1450.0	37.317	2.73146E+05	325.89	-1.99399E+05	7.1830
1500.0	37.325	2.75012E+05	327.16	-2.15726E+05	7.5121
1550.0	37.332	2.76879E+05	328.38	-2.32115E+05	7.8220
1600.0	37.338	2.78745E+05	329.57	-2.48564E+05	8.1146
1650.0	37.345	2.80612E+05	330.72	-2.65071E+05	8.3912
1700.0	37.351	2.82480E+05	331.83	-2.81635E+05	8.6534
1750.0	37.356	2.84347E+05	332.91	-2.98254E+05	8.9022
1800.0	37.362	2.86215E+05	333.97	-3.14926E+05	9.1387
1850.0	37.367	2.88084E+05	334.99	-3.31650E+05	9.3639
1900.0	37.372	2.89952E+05	335.99	-3.48424E+05	9.5786
1950.0	37.377	2.91821E+05	336.96	-3.65248E+05	9.7837
2000.0	37.381	2.93690E+05	337.90	-3.82120E+05	9.9797

AuSe<AU1SE1_ALPHA>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.161	-7949.6	80.751	-32026.	5.6106
300.00	50.212	-7856.8	81.061	-32175.	5.6021
350.00	51.608	-5311.3	88.906	-36429.	5.4365
400.00	53.003	-2696.0	95.889	-41052.	5.3606
450.00	54.398	-10.971	102.21	-46006.	5.3402
500.00	55.794	2743.8	108.02	-51264.	5.3554
550.00	57.189	5568.4	113.40	-56801.	5.3944
600.00	58.584	8462.7	118.43	-62598.	5.4495
650.00	59.980	11427.	123.18	-68640.	5.5158
700.00	61.375	14461.	127.68	-74912.	5.5899

AuSe<AU1SE1_BETA>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.161	-3765.6	86.609	-29588.	5.1836
300.00	50.212	-3672.8	86.919	-29749.	5.1796
350.00	51.608	-1127.3	94.764	-34295.	5.1181
400.00	53.003	1488.0	101.75	-39211.	5.1203
450.00	54.398	4173.0	108.07	-44459.	5.1605
500.00	55.794	6927.8	113.87	-50009.	5.2243
550.00	57.189	9752.4	119.26	-55839.	5.3030
600.00	58.584	12647.	124.29	-61929.	5.3913

AuSe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.551	3.55975E+05	267.59	2.76192E+05	-48.386
300.00	36.571	3.56042E+05	267.82	2.75697E+05	-48.002
350.00	37.119	3.57884E+05	273.50	2.62160E+05	-39.124
400.00	37.683	3.59755E+05	278.49	2.48358E+05	-32.431
450.00	38.229	3.61652E+05	282.96	2.34320E+05	-27.198
500.00	38.741	3.63577E+05	287.02	2.20069E+05	-22.990
550.00	39.209	3.65526E+05	290.73	2.05624E+05	-19.528
600.00	39.627	3.67497E+05	294.16	1.91001E+05	-16.628
650.00	39.992	3.69488E+05	297.35	1.76212E+05	-14.160
700.00	40.302	3.71495E+05	300.32	1.61270E+05	-12.034
750.00	40.554	3.73517E+05	303.11	1.46183E+05	-10.181
800.00	40.748	3.75550E+05	305.74	1.30961E+05	-8.5507
850.00	40.882	3.77591E+05	308.21	1.15612E+05	-7.1045
900.00	40.956	3.79637E+05	310.55	1.00142E+05	-5.8120
950.00	40.971	3.81685E+05	312.76	84559.	-4.6493
1000.0	40.924	3.83733E+05	314.86	68868.	-3.5972
1050.0	40.894	3.85778E+05	316.86	53074.	-2.6402
1100.0	40.850	3.87822E+05	318.76	37183.	-1.7656
1150.0	40.793	3.89863E+05	320.58	21200.	-0.96289
1200.0	40.728	3.91901E+05	322.31	5127.0	-0.22317
1250.0	40.656	3.93936E+05	323.97	-11030.	0.46093
1300.0	40.578	3.95967E+05	325.57	-27269.	1.0957
1350.0	40.496	3.97994E+05	327.10	-43586.	1.6864
1400.0	40.412	4.00016E+05	328.57	-59978.	2.2377
1450.0	40.325	4.02035E+05	329.98	-76442.	2.7537
1500.0	40.238	4.04049E+05	331.35	-92975.	3.2376
1550.0	40.150	4.06059E+05	332.67	-1.09576E+05	3.6926
1600.0	40.062	4.08064E+05	333.94	-1.26241E+05	4.1213
1650.0	39.974	4.10065E+05	335.17	-1.42969E+05	4.5259
1700.0	39.888	4.12061E+05	336.36	-1.59758E+05	4.9086
1750.0	39.802	4.14054E+05	337.52	-1.76605E+05	5.2712
1800.0	39.719	4.16042E+05	338.64	-1.93509E+05	5.6154
1850.0	39.637	4.18025E+05	339.73	-2.10469E+05	5.9424
1900.0	39.557	4.20005E+05	340.78	-2.27481E+05	6.2537
1950.0	39.480	4.21981E+05	341.81	-2.44546E+05	6.5505
2000.0	39.405	4.23953E+05	342.81	-2.61662E+05	6.8337
2050.0	39.332	4.25922E+05	343.78	-2.78827E+05	7.1044
2100.0	39.263	4.27887E+05	344.73	-2.96039E+05	7.3634
2150.0	39.196	4.29848E+05	345.65	-3.13299E+05	7.6115
2200.0	39.132	4.31806E+05	346.55	-3.30604E+05	7.8493
2250.0	39.072	4.33761E+05	347.43	-3.47954E+05	8.0777
2300.0	39.014	4.35713E+05	348.29	-3.65347E+05	8.2971
2350.0	38.960	4.37663E+05	349.13	-3.82782E+05	8.5081
2400.0	38.909	4.39609E+05	349.95	-4.00259E+05	8.7112
2450.0	38.861	4.41554E+05	350.75	-4.17776E+05	8.9069
2500.0	38.816	4.43496E+05	351.53	-4.35333E+05	9.0956
2550.0	38.776	4.45435E+05	352.30	-4.52929E+05	9.2776
2600.0	38.738	4.47373E+05	353.05	-4.70563E+05	9.4535
2650.0	38.704	4.49309E+05	353.79	-4.88234E+05	9.6234
2700.0	38.674	4.51244E+05	354.51	-5.05942E+05	9.7878
2750.0	38.647	4.53177E+05	355.22	-5.23685E+05	9.9468
2800.0	38.624	4.55109E+05	355.92	-5.41464E+05	10.101

AuTe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.825	3.35658E+05	275.63	2.53479E+05	-44.407
300.00	36.832	3.35726E+05	275.86	2.52969E+05	-44.045
350.00	36.997	3.37572E+05	281.55	2.39030E+05	-35.672
400.00	37.127	3.39425E+05	286.50	2.24826E+05	-29.359
450.00	37.243	3.41285E+05	290.88	2.10390E+05	-24.421
500.00	37.357	3.43150E+05	294.81	1.95746E+05	-20.449
550.00	37.475	3.45020E+05	298.37	1.80915E+05	-17.181
600.00	37.600	3.46897E+05	301.64	1.65914E+05	-14.444
650.00	37.736	3.48781E+05	304.65	1.50755E+05	-12.115
700.00	37.882	3.50671E+05	307.46	1.35452E+05	-10.107
750.00	38.041	3.52569E+05	310.07	1.20013E+05	-8.3582
800.00	38.214	3.54475E+05	312.54	1.04447E+05	-6.8195
850.00	38.400	3.56391E+05	314.86	88762.	-5.4545
900.00	38.601	3.58316E+05	317.06	72963.	-4.2346
950.00	38.815	3.60251E+05	319.15	57058.	-3.1372
1000.0	39.045	3.62197E+05	321.15	41050.	-2.1442
1050.0	39.314	3.64156E+05	323.06	24944.	-1.2409
1100.0	39.558	3.66128E+05	324.89	8745.2	-0.41526
1150.0	39.778	3.68112E+05	326.66	-7543.9	0.34265
1200.0	39.979	3.70106E+05	328.35	-23919.	1.0412
1250.0	40.162	3.72109E+05	329.99	-40378.	1.6873
1300.0	40.330	3.74122E+05	331.57	-56918.	2.2869
1350.0	40.484	3.76142E+05	333.09	-73534.	2.8451
1400.0	40.626	3.78170E+05	334.57	-90226.	3.3663
1450.0	40.755	3.80205E+05	336.00	-1.06990E+05	3.8541
1500.0	40.874	3.82245E+05	337.38	-1.23825E+05	4.3119
1550.0	40.983	3.84292E+05	338.72	-1.40728E+05	4.7424
1600.0	41.083	3.86344E+05	340.03	-1.57697E+05	5.1481
1650.0	41.174	3.88400E+05	341.29	-1.74730E+05	5.5313
1700.0	41.256	3.90461E+05	342.52	-1.91825E+05	5.8939
1750.0	41.330	3.92526E+05	343.72	-2.08981E+05	6.2376
1800.0	41.397	3.94594E+05	344.88	-2.26196E+05	6.5639
1850.0	41.456	3.96665E+05	346.02	-2.43469E+05	6.8742
1900.0	41.508	3.98739E+05	347.12	-2.60798E+05	7.1696
1950.0	41.554	4.00816E+05	348.20	-2.78181E+05	7.4514
2000.0	41.592	4.02894E+05	349.26	-2.95618E+05	7.7205
2050.0	41.624	4.04975E+05	350.28	-3.13106E+05	7.9778
2100.0	41.650	4.07057E+05	351.29	-3.30646E+05	8.2241
2150.0	41.669	4.09140E+05	352.27	-3.48234E+05	8.4602
2200.0	41.683	4.11224E+05	353.23	-3.65872E+05	8.6867
2250.0	41.690	4.13308E+05	354.16	-3.83557E+05	8.9042
2300.0	41.691	4.15393E+05	355.08	-4.01288E+05	9.1133
2350.0	41.687	4.17477E+05	355.97	-4.19064E+05	9.3145
2400.0	41.677	4.19561E+05	356.85	-4.36885E+05	9.5083
2450.0	41.661	4.21645E+05	357.71	-4.54749E+05	9.6951
2500.0	41.640	4.23727E+05	358.55	-4.72656E+05	9.8754
2550.0	41.613	4.25808E+05	359.38	-4.90604E+05	10.049
2600.0	41.580	4.27888E+05	360.19	-5.08593E+05	10.218
2650.0	41.542	4.29966E+05	360.98	-5.26622E+05	10.380
2700.0	41.499	4.32042E+05	361.75	-5.44691E+05	10.537
2750.0	41.472	4.34117E+05	362.51	-5.62797E+05	10.690
2800.0	41.445	4.36190E+05	363.26	-5.80942E+05	10.837
2850.0	41.417	4.38261E+05	363.99	-5.99123E+05	10.980
2900.0	41.388	4.40331E+05	364.71	-6.17341E+05	11.119
2950.0	41.359	4.42400E+05	365.42	-6.35595E+05	11.254
3000.0	41.330	4.44467E+05	366.12	-6.53883E+05	11.385

AuTe2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	76.676	-18619.	141.71	-60870.	10.664
300.00	76.721	-18477.	142.19	-61133.	10.644
350.00	78.081	-14608.	154.11	-68547.	10.230
400.00	79.619	-10666.	164.64	-76521.	9.9923
450.00	81.261	-6644.2	174.11	-84993.	9.8655
500.00	82.968	-2538.7	182.76	-93918.	9.8113
550.00	84.716	1653.3	190.75	-1.03258E+05	9.8064
600.00	86.494	5933.5	198.20	-1.12984E+05	9.8359
650.00	88.291	10303.	205.19	-1.23070E+05	9.8898
700.00	90.103	14763.	211.80	-1.33496E+05	9.9614

B

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	11.084	0.00000E+00	5.9000	-1759.1	0.30818
300.00	11.208	20.620	5.9689	-1770.1	0.30819
350.00	13.960	654.09	7.9165	-2116.7	0.31589
400.00	15.926	1403.7	9.9155	-2562.5	0.33462
450.00	17.428	2239.0	11.882	-3107.7	0.36072
500.00	18.634	3141.5	13.782	-3749.6	0.39170
550.00	19.640	4099.1	15.607	-4484.6	0.42590
600.00	20.505	5103.2	17.354	-5308.9	0.46217
650.00	21.264	6147.8	19.025	-6218.7	0.49973
700.00	21.941	7228.2	20.626	-7210.3	0.53802
750.00	22.554	8340.8	22.161	-8280.2	0.57667
800.00	23.112	9482.7	23.635	-9425.4	0.61540
850.00	23.624	10651.	25.052	-10643.	0.65401
900.00	24.097	11844.	26.416	-11930.	0.69236
950.00	24.534	13060.	27.730	-13284.	0.73036
1000.0	24.938	14297.	28.999	-14702.	0.76793
1050.0	25.313	15554.	30.225	-16183.	0.80503
1100.0	25.656	16828.	31.411	-17724.	0.84161
1150.0	25.999	18120.	32.559	-19323.	0.87767
1200.0	26.313	19428.	33.672	-20979.	0.91318
1250.0	26.602	20750.	34.752	-22690.	0.94813
1300.0	26.870	22087.	35.801	-24454.	0.98254
1350.0	27.121	23437.	36.820	-26269.	1.0164
1400.0	27.356	24799.	37.810	-28135.	1.0497
1450.0	27.579	26173.	38.774	-30050.	1.0825
1500.0	27.790	27557.	39.713	-32012.	1.1147
1550.0	27.992	28951.	40.627	-34021.	1.1465
1600.0	28.185	30356.	41.519	-36075.	1.1777
1650.0	28.372	31770.	42.389	-38173.	1.2084
1700.0	28.552	33193.	43.239	-40313.	1.2386
1750.0	28.726	34625.	44.069	-42496.	1.2684
1800.0	28.896	36065.	44.881	-44720.	1.2977
1850.0	29.061	37514.	45.675	-46984.	1.3266
1900.0	29.223	38971.	46.452	-49287.	1.3550
1950.0	29.381	40437.	47.213	-51629.	1.3829
2000.0	29.536	41910.	47.959	-54008.	1.4105
2050.0	29.689	43390.	48.690	-56424.	1.4377
2100.0	29.840	44878.	49.407	-58877.	1.4644
2150.0	29.989	46374.	50.111	-61365.	1.4908
2200.0	30.136	47877.	50.802	-63888.	1.5169
2250.0	30.282	49388.	51.481	-66445.	1.5425
2300.0	30.426	50905.	52.148	-69036.	1.5678
2348.0	30.564	52369.	52.778	-71554.	1.5918
2348.0	31.400	1.02569E+05	74.158	-71554.	1.5918
2350.0	31.400	1.02632E+05	74.185	-71702.	1.5937
2400.0	31.400	1.04202E+05	74.846	-75428.	1.6416
2450.0	31.400	1.05772E+05	75.493	-79187.	1.6882
2500.0	31.400	1.07342E+05	76.128	-82977.	1.7337
2550.0	31.400	1.08912E+05	76.750	-86799.	1.7780
2600.0	31.400	1.10482E+05	77.359	-90652.	1.8212
2650.0	31.400	1.12052E+05	77.957	-94535.	1.8634
2700.0	31.400	1.13622E+05	78.544	-98448.	1.9045
2750.0	31.400	1.15192E+05	79.120	-1.02389E+05	1.9448
2800.0	31.400	1.16762E+05	79.686	-1.06360E+05	1.9841
2850.0	31.400	1.18332E+05	80.242	-1.10358E+05	2.0226
2900.0	31.400	1.19902E+05	80.788	-1.14384E+05	2.0602
2950.0	31.400	1.21472E+05	81.325	-1.18436E+05	2.0971
3000.0	31.400	1.23042E+05	81.853	-1.22516E+05	2.1331

B2H6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.558	36600.	232.49	-32717.	5.7318
300.00	57.877	36707.	232.85	-33148.	5.7714
350.00	66.245	39812.	242.40	-45030.	6.7201
400.00	74.138	43323.	251.77	-57385.	7.4935
450.00	81.580	47218.	260.94	-70203.	8.1488
500.00	88.584	51474.	269.90	-83475.	8.7204
550.00	95.157	56069.	278.65	-97190.	9.2301
600.00	101.30	60983.	287.20	-1.11337E+05	9.6925
650.00	107.02	66193.	295.54	-1.25906E+05	10.118
700.00	112.32	71678.	303.66	-1.40887E+05	10.513
750.00	117.29	77420.	311.59	-1.56269E+05	10.883
800.00	121.79	83399.	319.30	-1.72042E+05	11.233
850.00	125.90	89593.	326.81	-1.88196E+05	11.565
900.00	129.68	95984.	334.12	-2.04720E+05	11.881
950.00	133.16	1.02556E+05	341.22	-2.21604E+05	12.184
1000.0	136.38	1.09296E+05	348.13	-2.38839E+05	12.475
1050.0	139.35	1.16190E+05	354.86	-2.56415E+05	12.756
1100.0	142.10	1.23227E+05	361.41	-2.74322E+05	13.026
1150.0	144.64	1.30396E+05	367.78	-2.92553E+05	13.288
1200.0	146.98	1.37687E+05	373.99	-3.11098E+05	13.541
1250.0	149.13	1.45091E+05	380.03	-3.29949E+05	13.787
1300.0	151.09	1.52597E+05	385.92	-3.49098E+05	14.027
1350.0	152.97	1.60199E+05	391.66	-3.68538E+05	14.259
1400.0	154.69	1.67892E+05	397.25	-3.88261E+05	14.486
1450.0	156.25	1.75666E+05	402.71	-4.08261E+05	14.707
1500.0	157.69	1.83515E+05	408.03	-4.28530E+05	14.922
1550.0	159.00	1.91432E+05	413.22	-4.49062E+05	15.133
1600.0	160.22	1.99413E+05	418.29	-4.69850E+05	15.339
1650.0	161.35	2.07453E+05	423.24	-4.90889E+05	15.540
1700.0	162.39	2.15547E+05	428.07	-5.12172E+05	15.737
1750.0	163.37	2.23691E+05	432.79	-5.33694E+05	15.929
1800.0	164.28	2.31883E+05	437.41	-5.55449E+05	16.118
1850.0	165.13	2.40118E+05	441.92	-5.77433E+05	16.303
1900.0	165.92	2.48394E+05	446.33	-5.99640E+05	16.485
1950.0	166.67	2.56709E+05	450.65	-6.22065E+05	16.663
2000.0	167.37	2.65061E+05	454.88	-6.44703E+05	16.837
2050.0	168.04	2.73446E+05	459.02	-6.67551E+05	17.009
2100.0	168.66	2.81864E+05	463.08	-6.90604E+05	17.177
2150.0	169.25	2.90312E+05	467.06	-7.13858E+05	17.343
2200.0	169.81	2.98789E+05	470.95	-7.37309E+05	17.505
2250.0	170.34	3.07292E+05	474.78	-7.60952E+05	17.665
2300.0	170.84	3.15822E+05	478.52	-7.84785E+05	17.823
2350.0	171.31	3.24376E+05	482.20	-8.08803E+05	17.977
2400.0	171.76	3.32953E+05	485.82	-8.33004E+05	18.129
2450.0	172.19	3.41552E+05	489.36	-8.57384E+05	18.279
2500.0	172.59	3.50171E+05	492.84	-8.81939E+05	18.427
2550.0	172.98	3.58811E+05	496.27	-9.06667E+05	18.572
2600.0	173.34	3.67469E+05	499.63	-9.31565E+05	18.715
2650.0	173.69	3.76145E+05	502.93	-9.56629E+05	18.856
2700.0	174.02	3.84837E+05	506.18	-9.81857E+05	18.995
2750.0	174.33	3.93546E+05	509.38	-1.00725E+06	19.132
2800.0	174.62	4.02270E+05	512.52	-1.03279E+06	19.267
2850.0	174.90	4.11008E+05	515.62	-1.05850E+06	19.400
2900.0	175.17	4.19759E+05	518.66	-1.08436E+06	19.531
2950.0	175.42	4.28524E+05	521.66	-1.11036E+06	19.660
3000.0	175.65	4.37301E+05	524.61	-1.13652E+06	19.788

B5H9

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	151.51	42844.	184.33	-12114.	2.1223
300.00	152.00	43125.	185.27	-12456.	2.1687
350.00	165.46	51060.	209.71	-22337.	3.3336
400.00	178.88	59670.	232.68	-33402.	4.3618
450.00	191.83	68940.	254.50	-45586.	5.2914
500.00	204.09	78841.	275.36	-58836.	6.1464
550.00	215.51	89335.	295.35	-73107.	6.9430
600.00	226.02	1.00377E+05	314.56	-88358.	7.6921
650.00	235.58	1.11921E+05	333.03	-1.04551E+05	8.4016
700.00	244.14	1.23918E+05	350.81	-1.21650E+05	9.0774
750.00	251.69	1.36318E+05	367.92	-1.39621E+05	9.7238
800.00	258.21	1.49070E+05	384.38	-1.58431E+05	10.344
850.00	263.69	1.62122E+05	400.20	-1.78048E+05	10.941
900.00	268.13	1.75422E+05	415.40	-1.98441E+05	11.517
950.00	271.73	1.88921E+05	430.00	-2.19578E+05	12.073
1000.0	274.87	2.02587E+05	444.02	-2.41431E+05	12.611
1050.0	277.63	2.16401E+05	457.50	-2.63971E+05	13.132
1100.0	280.06	2.30345E+05	470.47	-2.87173E+05	13.636
1150.0	282.22	2.44403E+05	482.97	-3.11010E+05	14.126
1200.0	284.14	2.58563E+05	495.02	-3.35462E+05	14.602
1250.0	285.85	2.72813E+05	506.65	-3.60506E+05	15.064
1300.0	287.38	2.87145E+05	517.90	-3.86121E+05	15.514
1350.0	288.75	3.01549E+05	528.77	-4.12289E+05	15.952
1400.0	289.97	3.16017E+05	539.29	-4.38992E+05	16.379
1450.0	291.06	3.30544E+05	549.49	-4.66213E+05	16.794
1500.0	292.03	3.45122E+05	559.37	-4.93935E+05	17.200

B5H9<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	93.822	73220.	275.43	-8899.2	1.5591
300.00	94.503	73394.	276.01	-9409.2	1.6383
350.00	112.65	78575.	291.95	-23607.	3.5230
400.00	130.21	84650.	308.14	-38608.	5.0416
450.00	146.48	91573.	324.44	-54423.	6.3171
500.00	161.37	99274.	340.65	-71051.	7.4224
550.00	175.05	1.07690E+05	356.68	-88485.	8.4034
600.00	187.61	1.16761E+05	372.46	-1.06714E+05	9.2901
650.00	199.07	1.26433E+05	387.94	-1.25726E+05	10.103
700.00	209.41	1.36649E+05	403.07	-1.45502E+05	10.857
750.00	218.80	1.47358E+05	417.85	-1.66027E+05	11.563
800.00	227.34	1.58515E+05	432.24	-1.87281E+05	12.228
850.00	235.12	1.70079E+05	446.26	-2.09245E+05	12.858
900.00	242.20	1.82015E+05	459.91	-2.31901E+05	13.459
950.00	248.62	1.94288E+05	473.18	-2.55230E+05	14.033
1000.0	254.41	2.06866E+05	486.08	-2.79212E+05	14.584
1050.0	259.74	2.19722E+05	498.62	-3.03831E+05	15.114
1100.0	264.56	2.32832E+05	510.82	-3.29069E+05	15.626
1150.0	268.96	2.46171E+05	522.68	-3.54908E+05	16.120
1200.0	272.98	2.59721E+05	534.21	-3.81331E+05	16.598
1250.0	276.66	2.73464E+05	545.43	-4.08324E+05	17.062
1300.0	280.04	2.87382E+05	556.35	-4.35869E+05	17.513
1350.0	283.16	3.01463E+05	566.98	-4.63953E+05	17.951
1400.0	286.02	3.15694E+05	577.33	-4.92562E+05	18.377
1450.0	288.67	3.30062E+05	587.41	-5.21682E+05	18.793
1500.0	291.10	3.44557E+05	597.24	-5.51299E+05	19.197
1550.0	293.34	3.59168E+05	606.82	-5.81401E+05	19.593
1600.0	295.39	3.73887E+05	616.17	-6.11977E+05	19.978
1650.0	297.34	3.88706E+05	625.28	-6.43014E+05	20.356
1700.0	299.13	4.03618E+05	634.19	-6.74502E+05	20.724
1750.0	300.79	4.18617E+05	642.88	-7.06429E+05	21.085
1800.0	302.33	4.33695E+05	651.38	-7.38787E+05	21.438
1850.0	303.76	4.48848E+05	659.68	-7.71564E+05	21.785
1900.0	305.09	4.64070E+05	667.80	-8.04752E+05	22.124
1950.0	306.33	4.79355E+05	675.74	-8.38341E+05	22.456
2000.0	307.50	4.94702E+05	683.51	-8.72323E+05	22.782
2050.0	308.59	5.10104E+05	691.12	-9.06690E+05	23.102
2100.0	309.61	5.25559E+05	698.57	-9.41432E+05	23.416
2150.0	310.57	5.41064E+05	705.86	-9.76544E+05	23.725
2200.0	311.48	5.56616E+05	713.01	-1.01202E+06	24.028
2250.0	312.33	5.72211E+05	720.02	-1.04784E+06	24.325
2300.0	313.14	5.87848E+05	726.90	-1.08402E+06	24.618
2350.0	313.90	6.03524E+05	733.64	-1.12053E+06	24.906
2400.0	314.61	6.19237E+05	740.26	-1.15738E+06	25.189
2450.0	315.30	6.34985E+05	746.75	-1.19455E+06	25.468
2500.0	315.94	6.50766E+05	753.13	-1.23205E+06	25.742
2550.0	316.55	6.66578E+05	759.39	-1.26986E+06	26.011
2600.0	317.13	6.82420E+05	765.54	-1.30799E+06	26.277
2650.0	317.68	6.98291E+05	771.59	-1.34642E+06	26.539
2700.0	318.20	7.14188E+05	777.53	-1.38515E+06	26.797
2750.0	318.70	7.30110E+05	783.37	-1.42417E+06	27.051
2800.0	319.17	7.46057E+05	789.12	-1.46348E+06	27.301
2850.0	319.62	7.62027E+05	794.77	-1.50308E+06	27.548
2900.0	320.04	7.78018E+05	800.34	-1.54296E+06	27.791
2950.0	320.44	7.94031E+05	805.81	-1.58311E+06	28.031
3000.0	320.83	8.10062E+05	811.20	-1.62354E+06	28.268

B10H14

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	217.95	-28870.	176.57	-81513.	14.280
300.00	219.71	-28465.	177.92	-81841.	14.249
350.00	269.83	-16249.	215.48	-91668.	13.680
371.93	293.48	-10074.	232.59	-96580.	13.564
371.93	293.48	11892.	291.65	-96580.	13.564
400.00	305.01	20306.	313.45	-1.05074E+05	13.721
450.00	316.11	35863.	350.09	-1.21675E+05	14.123
500.00	325.35	51889.	383.85	-1.40035E+05	14.629
550.00	345.79	68672.	415.82	-1.60031E+05	15.198
600.00	364.85	86444.	446.74	-1.81599E+05	15.809
650.00	382.16	1.05127E+05	476.64	-2.04688E+05	16.448
700.00	397.48	1.24627E+05	505.53	-2.29246E+05	17.106
750.00	409.90	1.44815E+05	533.38	-2.55224E+05	17.775
800.00	421.54	1.65604E+05	560.21	-2.82568E+05	18.449
850.00	432.39	1.86955E+05	586.10	-3.11229E+05	19.125
900.00	442.46	2.08830E+05	611.10	-3.41163E+05	19.800
950.00	451.74	2.31188E+05	635.28	-3.72326E+05	20.471
1000.0	460.24	2.53991E+05	658.67	-4.04678E+05	21.138
1050.0	467.95	2.77199E+05	681.31	-4.38180E+05	21.798
1100.0	474.88	3.00773E+05	703.25	-4.72797E+05	22.451
1150.0	481.03	3.24674E+05	724.49	-5.08494E+05	23.096
1200.0	486.39	3.48863E+05	745.08	-5.45236E+05	23.733
1250.0	490.97	3.73300E+05	765.03	-5.82991E+05	24.361
1300.0	494.76	3.97947E+05	784.37	-6.21729E+05	24.981
1350.0	497.77	4.22763E+05	803.10	-6.61418E+05	25.591
1400.0	499.99	4.47710E+05	821.24	-7.02029E+05	26.192
1450.0	501.43	4.72749E+05	838.81	-7.43532E+05	26.784
1500.0	502.08	4.97840E+05	855.83	-7.85901E+05	27.367

B10H14<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	179.59	47279.	352.18	-57724.	10.113
300.00	180.95	47613.	353.30	-58376.	10.164
350.00	216.57	57559.	383.89	-76803.	11.462
400.00	249.94	69232.	415.02	-96774.	12.637
450.00	279.90	82495.	446.22	-1.18306E+05	13.732
500.00	306.43	97165.	477.11	-1.41391E+05	14.771
550.00	330.21	1.13092E+05	507.45	-1.66008E+05	15.766
600.00	351.66	1.30148E+05	537.12	-1.92125E+05	16.726
650.00	370.86	1.48221E+05	566.04	-2.19707E+05	17.655
700.00	387.96	1.67199E+05	594.16	-2.48716E+05	18.559
750.00	403.30	1.86988E+05	621.46	-2.79110E+05	19.438
800.00	417.15	2.07505E+05	647.94	-3.10849E+05	20.296
850.00	429.66	2.28680E+05	673.61	-3.43891E+05	21.132
900.00	440.98	2.50451E+05	698.50	-3.78197E+05	21.949
950.00	451.19	2.72760E+05	722.62	-4.13728E+05	22.748
1000.0	460.37	2.95553E+05	746.00	-4.50447E+05	23.528
1050.0	468.79	3.18785E+05	768.67	-4.88316E+05	24.292
1100.0	476.39	3.42418E+05	790.65	-5.27302E+05	25.039
1150.0	483.30	3.66413E+05	811.99	-5.67371E+05	25.770
1200.0	489.59	3.90737E+05	832.69	-6.08490E+05	26.486
1250.0	495.36	4.15363E+05	852.79	-6.50630E+05	27.188
1300.0	500.64	4.40265E+05	872.33	-6.93760E+05	27.875
1350.0	505.50	4.65420E+05	891.31	-7.37853E+05	28.549
1400.0	509.97	4.90809E+05	909.78	-7.82883E+05	29.209
1450.0	514.08	5.16412E+05	927.75	-8.28823E+05	29.857
1500.0	517.87	5.42212E+05	945.24	-8.75649E+05	30.492
1550.0	521.35	5.68193E+05	962.28	-9.23339E+05	31.116
1600.0	524.55	5.94342E+05	978.88	-9.71870E+05	31.728
1650.0	527.56	6.20645E+05	995.07	-1.02122E+06	32.328
1700.0	530.33	6.47094E+05	1010.9	-1.07137E+06	32.918
1750.0	532.90	6.73675E+05	1026.3	-1.12230E+06	33.498
1800.0	535.29	7.00381E+05	1041.3	-1.17399E+06	34.067
1850.0	537.51	7.27201E+05	1056.0	-1.22643E+06	34.627
1900.0	539.57	7.54129E+05	1070.4	-1.27959E+06	35.177
1950.0	541.50	7.81156E+05	1084.4	-1.33346E+06	35.718
2000.0	543.30	8.08277E+05	1098.2	-1.38802E+06	36.251
2050.0	544.99	8.35485E+05	1111.6	-1.44327E+06	36.774
2100.0	546.58	8.62775E+05	1124.7	-1.49918E+06	37.289
2150.0	548.07	8.90141E+05	1137.6	-1.55574E+06	37.796
2200.0	549.48	9.17580E+05	1150.2	-1.61294E+06	38.295
2250.0	550.80	9.45088E+05	1162.6	-1.67076E+06	38.786
2300.0	552.04	9.72659E+05	1174.7	-1.72919E+06	39.270
2350.0	553.22	1.00029E+06	1186.6	-1.78823E+06	39.747
2400.0	554.34	1.02798E+06	1198.3	-1.84785E+06	40.216
2450.0	555.39	1.05572E+06	1209.7	-1.90805E+06	40.679
2500.0	556.38	1.08352E+06	1220.9	-1.96881E+06	41.135
2550.0	557.33	1.11136E+06	1232.0	-2.03014E+06	41.585
2600.0	558.22	1.13925E+06	1242.8	-2.09201E+06	42.028
2650.0	559.07	1.16718E+06	1253.4	-2.15441E+06	42.465
2700.0	559.87	1.19516E+06	1263.9	-2.21735E+06	42.896
2750.0	560.63	1.22317E+06	1274.2	-2.28080E+06	43.321
2800.0	561.35	1.25122E+06	1284.3	-2.34476E+06	43.741
2850.0	562.03	1.27930E+06	1294.2	-2.40923E+06	44.155
2900.0	562.68	1.30742E+06	1304.0	-2.47418E+06	44.564
2950.0	563.29	1.33557E+06	1313.6	-2.53962E+06	44.967
3000.0	563.87	1.36375E+06	1323.1	-2.60554E+06	45.365

BF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.586	-1.06939E+05	200.45	-1.66703E+05	29.205
300.00	29.602	-1.06884E+05	200.63	-1.67074E+05	29.089
350.00	30.086	-1.05392E+05	205.23	-1.77223E+05	26.448
400.00	30.625	-1.03875E+05	209.28	-1.87588E+05	24.496
450.00	31.178	-1.02330E+05	212.92	-1.98144E+05	22.999
500.00	31.724	-1.00757E+05	216.24	-2.08875E+05	21.820
550.00	32.249	-99158.	219.28	-2.19764E+05	20.871
600.00	32.746	-97533.	222.11	-2.30799E+05	20.092
650.00	33.210	-95884.	224.75	-2.41972E+05	19.445
700.00	33.638	-94212.	227.23	-2.53272E+05	18.899
750.00	34.028	-92520.	229.56	-2.64692E+05	18.434
800.00	34.379	-90810.	231.77	-2.76226E+05	18.035
850.00	34.688	-89083.	233.86	-2.87867E+05	17.690
900.00	34.955	-87342.	235.85	-2.99610E+05	17.388
950.00	35.230	-85587.	237.75	-3.11451E+05	17.124
1000.0	35.468	-83820.	239.56	-3.23384E+05	16.891
1050.0	35.676	-82041.	241.30	-3.35406E+05	16.685
1100.0	35.858	-80252.	242.96	-3.47513E+05	16.502
1150.0	36.021	-78455.	244.56	-3.59701E+05	16.338
1200.0	36.166	-76651.	246.10	-3.71968E+05	16.191
1250.0	36.298	-74839.	247.58	-3.84310E+05	16.059
1300.0	36.417	-73021.	249.00	-3.96725E+05	15.940
1350.0	36.525	-71198.	250.38	-4.09210E+05	15.833
1400.0	36.625	-69369.	251.71	-4.21762E+05	15.736
1450.0	36.717	-67535.	253.00	-4.34380E+05	15.648
1500.0	36.803	-65697.	254.24	-4.47061E+05	15.568
1550.0	36.883	-63855.	255.45	-4.59803E+05	15.495
1600.0	36.958	-62009.	256.62	-4.72605E+05	15.429
1650.0	37.029	-60159.	257.76	-4.85465E+05	15.368
1700.0	37.096	-58306.	258.87	-4.98381E+05	15.313
1750.0	37.160	-56450.	259.94	-5.11351E+05	15.263
1800.0	37.221	-54590.	260.99	-5.24375E+05	15.217
1850.0	37.279	-52728.	262.01	-5.37450E+05	15.174
1900.0	37.335	-50862.	263.01	-5.50576E+05	15.136
1950.0	37.389	-48994.	263.98	-5.63750E+05	15.101
2000.0	37.442	-47123.	264.92	-5.76973E+05	15.069
2050.0	37.492	-45250.	265.85	-5.90243E+05	15.039
2100.0	37.542	-43374.	266.75	-6.03558E+05	15.012
2150.0	37.590	-41496.	267.64	-6.16918E+05	14.988
2200.0	37.637	-39615.	268.50	-6.30321E+05	14.965
2250.0	37.683	-37732.	269.35	-6.43768E+05	14.945
2300.0	37.729	-35847.	270.18	-6.57256E+05	14.926
2350.0	37.773	-33959.	270.99	-6.70785E+05	14.910
2400.0	37.817	-32069.	271.79	-6.84355E+05	14.894
2450.0	37.860	-30177.	272.57	-6.97963E+05	14.880
2500.0	37.903	-28283.	273.33	-7.11611E+05	14.868
2550.0	37.945	-26387.	274.08	-7.25296E+05	14.857
2600.0	37.987	-24489.	274.82	-7.39019E+05	14.847
2650.0	38.029	-22588.	275.54	-7.52778E+05	14.838
2700.0	38.070	-20686.	276.25	-7.66573E+05	14.830
2750.0	38.112	-18781.	276.95	-7.80403E+05	14.823
2800.0	38.152	-16875.	277.64	-7.94268E+05	14.817
2850.0	38.193	-14966.	278.32	-8.08167E+05	14.812
2900.0	38.234	-13056.	278.98	-8.22099E+05	14.807
2950.0	38.275	-11143.	279.63	-8.36065E+05	14.804
3000.0	38.315	-9228.0	280.28	-8.50063E+05	14.801

BF2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	40.048	-4.99435E+05	247.13	-5.73116E+05	100.40
300.00	40.116	-4.99361E+05	247.37	-5.73573E+05	99.865
350.00	41.870	-4.97311E+05	253.69	-5.86103E+05	87.469
400.00	43.495	-4.95176E+05	259.39	-5.98932E+05	78.211
450.00	44.992	-4.92963E+05	264.60	-6.12034E+05	71.041
500.00	46.364	-4.90679E+05	269.41	-6.25386E+05	65.332
550.00	47.610	-4.88329E+05	273.89	-6.38970E+05	60.683
600.00	48.731	-4.85920E+05	278.08	-6.52770E+05	56.827
650.00	49.727	-4.83458E+05	282.02	-6.66774E+05	53.581
700.00	50.596	-4.80949E+05	285.74	-6.80969E+05	50.813
750.00	51.399	-4.78399E+05	289.26	-6.95345E+05	48.427
800.00	52.071	-4.75812E+05	292.60	-7.09892E+05	46.350
850.00	52.641	-4.73193E+05	295.78	-7.24602E+05	44.528
900.00	53.130	-4.70549E+05	298.80	-7.39467E+05	42.916
950.00	53.555	-4.67881E+05	301.68	-7.54480E+05	41.483
1000.0	53.927	-4.65194E+05	304.44	-7.69633E+05	40.201
1050.0	54.256	-4.62489E+05	307.08	-7.84922E+05	39.047
1100.0	54.549	-4.59769E+05	309.61	-8.00339E+05	38.004
1150.0	54.812	-4.57035E+05	312.04	-8.15881E+05	37.058
1200.0	55.049	-4.54288E+05	314.38	-8.31542E+05	36.195
1250.0	55.264	-4.51531E+05	316.63	-8.47317E+05	35.407
1300.0	55.459	-4.48762E+05	318.80	-8.63203E+05	34.683
1350.0	55.638	-4.45985E+05	320.90	-8.79196E+05	34.017
1400.0	55.802	-4.43199E+05	322.92	-8.95292E+05	33.403
1450.0	55.953	-4.40405E+05	324.88	-9.11487E+05	32.834
1500.0	56.092	-4.37604E+05	326.78	-9.27779E+05	32.307
1550.0	56.221	-4.34796E+05	328.63	-9.44165E+05	31.817
1600.0	56.340	-4.31982E+05	330.41	-9.60641E+05	31.361
1650.0	56.450	-4.29162E+05	332.15	-9.77205E+05	30.935
1700.0	56.552	-4.26337E+05	333.83	-9.93855E+05	30.537
1750.0	56.647	-4.23507E+05	335.47	-1.01059E+06	30.164
1800.0	56.735	-4.20673E+05	337.07	-1.02740E+06	29.814
1850.0	56.816	-4.17834E+05	338.63	-1.04429E+06	29.485
1900.0	56.891	-4.14991E+05	340.14	-1.06126E+06	29.175
1950.0	56.961	-4.12145E+05	341.62	-1.07831E+06	28.884
2000.0	57.025	-4.09295E+05	343.07	-1.09543E+06	28.609
2050.0	57.085	-4.06442E+05	344.47	-1.11261E+06	28.349
2100.0	57.139	-4.03587E+05	345.85	-1.12987E+06	28.103
2150.0	57.189	-4.00728E+05	347.20	-1.14720E+06	27.871
2200.0	57.234	-3.97868E+05	348.51	-1.16459E+06	27.650
2250.0	57.275	-3.95005E+05	349.80	-1.18205E+06	27.441
2300.0	57.311	-3.92140E+05	351.06	-1.19957E+06	27.242
2350.0	57.344	-3.89274E+05	352.29	-1.21715E+06	27.054
2400.0	57.373	-3.86406E+05	353.50	-1.23480E+06	26.874
2450.0	57.398	-3.83537E+05	354.68	-1.25250E+06	26.703
2500.0	57.420	-3.80666E+05	355.84	-1.27027E+06	26.540
2550.0	57.450	-3.77795E+05	356.98	-1.28809E+06	26.385
2600.0	57.478	-3.74921E+05	358.09	-1.30596E+06	26.236
2650.0	57.504	-3.72047E+05	359.19	-1.32390E+06	26.095
2700.0	57.529	-3.69171E+05	360.26	-1.34188E+06	25.960
2750.0	57.553	-3.66294E+05	361.32	-1.35992E+06	25.830
2800.0	57.575	-3.63416E+05	362.36	-1.37801E+06	25.707
2850.0	57.596	-3.60536E+05	363.38	-1.39616E+06	25.588
2900.0	57.617	-3.57656E+05	364.38	-1.41435E+06	25.475
2950.0	57.636	-3.54775E+05	365.36	-1.43259E+06	25.366
3000.0	57.654	-3.51893E+05	366.33	-1.45089E+06	25.262

B2F4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	76.914	-1.43176E+06	318.48	-1.52672E+06	267.47
300.00	77.161	-1.43162E+06	318.96	-1.52731E+06	265.92
350.00	83.342	-1.42761E+06	331.33	-1.54357E+06	230.36
400.00	88.715	-1.42330E+06	342.82	-1.56043E+06	203.77
450.00	93.424	-1.41875E+06	353.54	-1.57784E+06	183.15
500.00	97.543	-1.41397E+06	363.61	-1.59577E+06	166.70
550.00	101.11	-1.40900E+06	373.07	-1.61419E+06	153.30
600.00	104.16	-1.40387E+06	382.01	-1.63307E+06	142.17
650.00	106.86	-1.39859E+06	390.45	-1.65238E+06	132.78
700.00	109.14	-1.39319E+06	398.46	-1.67211E+06	124.77
750.00	111.10	-1.38768E+06	406.06	-1.69222E+06	117.85
800.00	112.80	-1.38208E+06	413.28	-1.71271E+06	111.83
850.00	114.30	-1.37640E+06	420.17	-1.73355E+06	106.53
900.00	115.62	-1.37066E+06	426.74	-1.75472E+06	101.84
950.00	116.78	-1.36484E+06	433.02	-1.77621E+06	97.661
1000.0	117.81	-1.35898E+06	439.04	-1.79802E+06	93.916
1050.0	118.73	-1.35307E+06	444.81	-1.82011E+06	90.543
1100.0	119.54	-1.34711E+06	450.35	-1.84249E+06	87.491
1150.0	120.24	-1.34111E+06	455.68	-1.86515E+06	84.715
1200.0	120.86	-1.33509E+06	460.81	-1.88806E+06	82.183
1250.0	121.44	-1.32903E+06	465.76	-1.91122E+06	79.864
1300.0	121.96	-1.32294E+06	470.53	-1.93463E+06	77.732
1350.0	122.43	-1.31683E+06	475.14	-1.95827E+06	75.768
1400.0	122.85	-1.31070E+06	479.60	-1.98214E+06	73.953
1450.0	123.23	-1.30455E+06	483.92	-2.00623E+06	72.270
1500.0	123.57	-1.29838E+06	488.10	-2.03053E+06	70.708
1550.0	123.89	-1.29219E+06	492.16	-2.05504E+06	69.253
1600.0	124.17	-1.28599E+06	496.10	-2.07975E+06	67.895
1650.0	124.44	-1.27977E+06	499.92	-2.10465E+06	66.626
1700.0	124.68	-1.27355E+06	503.64	-2.12974E+06	65.437
1750.0	124.90	-1.26731E+06	507.26	-2.15501E+06	64.322
1800.0	125.10	-1.26106E+06	510.78	-2.18046E+06	63.274
1850.0	125.29	-1.25480E+06	514.21	-2.20609E+06	62.287
1900.0	125.47	-1.24853E+06	517.55	-2.23188E+06	61.357
1950.0	125.63	-1.24225E+06	520.82	-2.25784E+06	60.479
2000.0	125.79	-1.23596E+06	524.00	-2.28396E+06	59.649
2050.0	125.93	-1.22967E+06	527.11	-2.31024E+06	58.864
2100.0	126.06	-1.22337E+06	530.14	-2.33667E+06	58.120
2150.0	126.19	-1.21707E+06	533.11	-2.36325E+06	57.414
2200.0	126.30	-1.21075E+06	536.01	-2.38998E+06	56.744
2250.0	126.41	-1.20444E+06	538.85	-2.41685E+06	56.107
2300.0	126.52	-1.19811E+06	541.63	-2.44387E+06	55.501
2350.0	126.61	-1.19178E+06	544.35	-2.47102E+06	54.923
2400.0	126.71	-1.18545E+06	547.02	-2.49830E+06	54.373
2450.0	126.79	-1.17911E+06	549.63	-2.52572E+06	53.848
2500.0	126.87	-1.17277E+06	552.20	-2.55326E+06	53.346
2550.0	126.95	-1.16643E+06	554.71	-2.58094E+06	52.867
2600.0	127.03	-1.16008E+06	557.18	-2.60873E+06	52.409
2650.0	127.09	-1.15372E+06	559.60	-2.63665E+06	51.970
2700.0	127.16	-1.14737E+06	561.97	-2.66469E+06	51.550
2750.0	127.22	-1.14101E+06	564.31	-2.69285E+06	51.148
2800.0	127.28	-1.13464E+06	566.60	-2.72112E+06	50.762
2850.0	127.34	-1.12828E+06	568.85	-2.74951E+06	50.392
2900.0	127.39	-1.12191E+06	571.07	-2.77801E+06	50.036
2950.0	127.44	-1.11554E+06	573.25	-2.80661E+06	49.694
3000.0	127.49	-1.10917E+06	575.39	-2.83533E+06	49.366

BF3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.450	-1.13600E+06	254.43	-1.21186E+06	212.31
300.00	50.605	-1.13591E+06	254.74	-1.21233E+06	211.08
350.00	54.397	-1.13328E+06	262.83	-1.22527E+06	182.86
400.00	57.613	-1.13048E+06	270.31	-1.23860E+06	161.74
450.00	60.414	-1.12752E+06	277.26	-1.25229E+06	145.36
500.00	62.886	-1.12444E+06	283.76	-1.26632E+06	132.29
550.00	65.076	-1.12124E+06	289.86	-1.28066E+06	121.62
600.00	67.013	-1.11794E+06	295.60	-1.29530E+06	112.76
650.00	68.717	-1.11454E+06	301.04	-1.31022E+06	105.29
700.00	70.195	-1.11107E+06	306.18	-1.32540E+06	98.900
750.00	71.537	-1.10752E+06	311.07	-1.34083E+06	93.381
800.00	72.665	-1.10392E+06	315.73	-1.35650E+06	88.568
850.00	73.627	-1.10026E+06	320.16	-1.37240E+06	84.335
900.00	74.456	-1.09656E+06	324.40	-1.38851E+06	80.585
950.00	75.179	-1.09282E+06	328.44	-1.40484E+06	77.241
1000.0	75.816	-1.08904E+06	332.31	-1.42136E+06	74.242
1050.0	76.381	-1.08524E+06	336.03	-1.43806E+06	71.538
1100.0	76.886	-1.08140E+06	339.59	-1.45496E+06	69.088
1150.0	77.340	-1.07755E+06	343.02	-1.47202E+06	66.860
1200.0	77.750	-1.07367E+06	346.32	-1.48926E+06	64.824
1250.0	78.123	-1.06977E+06	349.50	-1.50665E+06	62.958
1300.0	78.462	-1.06586E+06	352.57	-1.52420E+06	61.242
1350.0	78.773	-1.06193E+06	355.54	-1.54191E+06	59.658
1400.0	79.058	-1.05798E+06	358.41	-1.55976E+06	58.194
1450.0	79.319	-1.05402E+06	361.19	-1.57775E+06	56.835
1500.0	79.560	-1.05005E+06	363.88	-1.59587E+06	55.572
1550.0	79.782	-1.04607E+06	366.49	-1.61413E+06	54.395
1600.0	79.986	-1.04207E+06	369.03	-1.63252E+06	53.295
1650.0	80.174	-1.03807E+06	371.49	-1.65104E+06	52.266
1700.0	80.347	-1.03406E+06	373.89	-1.66967E+06	51.301
1750.0	80.506	-1.03004E+06	376.22	-1.68842E+06	50.395
1800.0	80.653	-1.02601E+06	378.49	-1.70729E+06	49.543
1850.0	80.786	-1.02197E+06	380.70	-1.72627E+06	48.740
1900.0	80.908	-1.01793E+06	382.86	-1.74536E+06	47.982
1950.0	81.019	-1.01388E+06	384.96	-1.76456E+06	47.266
2000.0	81.119	-1.00983E+06	387.02	-1.78386E+06	46.588
2050.0	81.209	-1.00577E+06	389.02	-1.80326E+06	45.946
2100.0	81.290	-1.00171E+06	390.98	-1.82276E+06	45.337
2150.0	81.360	-9.97639E+05	392.89	-1.84235E+06	44.759
2200.0	81.422	-9.93569E+05	394.76	-1.86205E+06	44.209
2250.0	81.496	-9.89496E+05	396.59	-1.88183E+06	43.686
2300.0	81.565	-9.85420E+05	398.38	-1.90170E+06	43.188
2350.0	81.629	-9.81340E+05	400.14	-1.92167E+06	42.713
2400.0	81.690	-9.77257E+05	401.86	-1.94172E+06	42.259
2450.0	81.747	-9.73171E+05	403.54	-1.96185E+06	41.826
2500.0	81.801	-9.69082E+05	405.20	-1.98207E+06	41.412
2550.0	81.852	-9.64991E+05	406.82	-2.00237E+06	41.016
2600.0	81.900	-9.60897E+05	408.41	-2.02275E+06	40.637
2650.0	81.945	-9.56801E+05	409.97	-2.04321E+06	40.273
2700.0	81.988	-9.52702E+05	411.50	-2.06375E+06	39.925
2750.0	82.029	-9.48602E+05	413.00	-2.08436E+06	39.590
2800.0	82.067	-9.44500E+05	414.48	-2.10505E+06	39.269
2850.0	82.104	-9.40395E+05	415.93	-2.12581E+06	38.961
2900.0	82.139	-9.36289E+05	417.36	-2.14664E+06	38.664
2950.0	82.172	-9.32182E+05	418.77	-2.16755E+06	38.379
3000.0	82.203	-9.28072E+05	420.15	-2.18852E+06	38.105

BOF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	41.002	-6.02496E+05	224.81	-6.69523E+05	117.29
300.00	41.092	-6.02420E+05	225.06	-6.69940E+05	116.64
350.00	43.296	-6.00309E+05	231.57	-6.81358E+05	101.68
400.00	45.168	-5.98096E+05	237.48	-6.93087E+05	90.506
450.00	46.807	-5.95796E+05	242.89	-7.05098E+05	81.844
500.00	48.266	-5.93418E+05	247.90	-7.17369E+05	74.941
550.00	49.573	-5.90972E+05	252.56	-7.29882E+05	69.317
600.00	50.747	-5.88463E+05	256.93	-7.42621E+05	64.649
650.00	51.800	-5.85899E+05	261.03	-7.55571E+05	60.717
700.00	52.737	-5.83285E+05	264.91	-7.68720E+05	57.361
750.00	53.565	-5.80627E+05	268.57	-7.82058E+05	54.466
800.00	54.287	-5.77930E+05	272.06	-7.95574E+05	51.944
850.00	54.982	-5.75198E+05	275.37	-8.09261E+05	49.730
900.00	55.584	-5.72434E+05	278.53	-8.23109E+05	47.771
950.00	56.111	-5.69641E+05	281.55	-8.37111E+05	46.026
1000.0	56.578	-5.66824E+05	284.44	-8.51261E+05	44.464
1050.0	56.994	-5.63984E+05	287.21	-8.65553E+05	43.058
1100.0	57.369	-5.61125E+05	289.87	-8.79980E+05	41.786
1150.0	57.707	-5.58248E+05	292.43	-8.94538E+05	40.630
1200.0	58.014	-5.55355E+05	294.89	-9.09221E+05	39.576
1250.0	58.295	-5.52447E+05	297.26	-9.24025E+05	38.612
1300.0	58.552	-5.49526E+05	299.55	-9.38946E+05	37.726
1350.0	58.789	-5.46592E+05	301.77	-9.53980E+05	36.911
1400.0	59.007	-5.43647E+05	303.91	-9.69122E+05	36.157
1450.0	59.208	-5.40692E+05	305.98	-9.84370E+05	35.460
1500.0	59.395	-5.37726E+05	308.00	-9.99719E+05	34.812
1550.0	59.567	-5.34752E+05	309.95	-1.01517E+06	34.210
1600.0	59.727	-5.31770E+05	311.84	-1.03071E+06	33.648
1650.0	59.876	-5.28780E+05	313.68	-1.04635E+06	33.124
1700.0	60.013	-5.25782E+05	315.47	-1.06208E+06	32.633
1750.0	60.140	-5.22779E+05	317.21	-1.07790E+06	32.173
1800.0	60.258	-5.19769E+05	318.91	-1.09380E+06	31.740
1850.0	60.366	-5.16753E+05	320.56	-1.10979E+06	31.334
1900.0	60.466	-5.13732E+05	322.17	-1.12586E+06	30.951
1950.0	60.558	-5.10706E+05	323.74	-1.14200E+06	30.590
2000.0	60.641	-5.07676E+05	325.28	-1.15823E+06	30.249
2050.0	60.717	-5.04642E+05	326.77	-1.17453E+06	29.927
2100.0	60.786	-5.01605E+05	328.24	-1.19091E+06	29.621
2150.0	60.848	-4.98564E+05	329.67	-1.20735E+06	29.332
2200.0	60.902	-4.95520E+05	331.07	-1.22387E+06	29.058
2250.0	60.964	-4.92474E+05	332.44	-1.24046E+06	28.797
2300.0	61.021	-4.89424E+05	333.78	-1.25712E+06	28.549
2350.0	61.075	-4.86371E+05	335.09	-1.27384E+06	28.314
2400.0	61.126	-4.83316E+05	336.38	-1.29062E+06	28.089
2450.0	61.174	-4.80259E+05	337.64	-1.30748E+06	27.875
2500.0	61.219	-4.77199E+05	338.88	-1.32439E+06	27.671
2550.0	61.261	-4.74137E+05	340.09	-1.34136E+06	27.476
2600.0	61.302	-4.71073E+05	341.28	-1.35840E+06	27.290
2650.0	61.340	-4.68007E+05	342.45	-1.37549E+06	27.112
2700.0	61.375	-4.64939E+05	343.59	-1.39264E+06	26.942
2750.0	61.410	-4.61869E+05	344.72	-1.40985E+06	26.779
2800.0	61.442	-4.58798E+05	345.83	-1.42711E+06	26.622
2850.0	61.473	-4.55725E+05	346.91	-1.44443E+06	26.473
2900.0	61.502	-4.52651E+05	347.98	-1.46180E+06	26.329
2950.0	61.530	-4.49575E+05	349.04	-1.47923E+06	26.192
3000.0	61.556	-4.46498E+05	350.07	-1.49671E+06	26.059

(BOF) 3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	115.05	-2.36522E+06	342.46	-2.46732E+06	432.25
300.00	115.48	-2.36500E+06	343.18	-2.46796E+06	429.70
350.00	126.28	-2.35895E+06	361.81	-2.48559E+06	370.94
400.00	135.79	-2.35240E+06	379.30	-2.50412E+06	327.00
450.00	144.19	-2.34539E+06	395.79	-2.52350E+06	292.91
500.00	151.57	-2.33799E+06	411.38	-2.54368E+06	265.73
550.00	157.98	-2.33025E+06	426.13	-2.56462E+06	243.56
600.00	163.45	-2.32221E+06	440.12	-2.58628E+06	225.15
650.00	168.24	-2.31392E+06	453.40	-2.60862E+06	209.63
700.00	172.34	-2.30540E+06	466.02	-2.63161E+06	196.37
750.00	175.89	-2.29669E+06	478.03	-2.65521E+06	184.92
800.00	178.99	-2.28782E+06	489.49	-2.67940E+06	174.94
850.00	181.70	-2.27880E+06	500.42	-2.70415E+06	166.17
900.00	184.08	-2.26965E+06	510.87	-2.72944E+06	158.41
950.00	186.16	-2.26039E+06	520.88	-2.75523E+06	151.49
1000.0	187.97	-2.25104E+06	530.48	-2.78152E+06	145.29
1050.0	189.62	-2.24160E+06	539.69	-2.80828E+06	139.70
1100.0	191.07	-2.23208E+06	548.55	-2.83548E+06	134.64
1150.0	192.35	-2.22249E+06	557.07	-2.86313E+06	130.04
1200.0	193.48	-2.21285E+06	565.28	-2.89119E+06	125.85
1250.0	194.50	-2.20315E+06	573.20	-2.91965E+06	122.00
1300.0	195.41	-2.19340E+06	580.85	-2.94850E+06	118.47
1350.0	196.24	-2.18361E+06	588.24	-2.97773E+06	115.21
1400.0	196.98	-2.17378E+06	595.39	-3.00732E+06	112.20
1450.0	197.66	-2.16391E+06	602.31	-3.03726E+06	109.41
1500.0	198.28	-2.15401E+06	609.02	-3.06755E+06	106.82
1550.0	198.85	-2.14408E+06	615.53	-3.09816E+06	104.40
1600.0	199.37	-2.13413E+06	621.86	-3.12910E+06	102.15
1650.0	199.85	-2.12415E+06	628.00	-3.16035E+06	100.05
1700.0	200.30	-2.11414E+06	633.97	-3.19190E+06	98.073
1750.0	200.71	-2.10412E+06	639.78	-3.22374E+06	96.221
1800.0	201.08	-2.09407E+06	645.44	-3.25587E+06	94.481
1850.0	201.44	-2.08401E+06	650.96	-3.28828E+06	92.842
1900.0	201.76	-2.07393E+06	656.33	-3.32096E+06	91.297
1950.0	202.06	-2.06383E+06	661.58	-3.35391E+06	89.839
2000.0	202.35	-2.05372E+06	666.70	-3.38712E+06	88.460
2050.0	202.61	-2.04360E+06	671.70	-3.42058E+06	87.155
2100.0	202.85	-2.03346E+06	676.58	-3.45429E+06	85.919
2150.0	203.08	-2.02332E+06	681.36	-3.48824E+06	84.745
2200.0	203.28	-2.01316E+06	686.03	-3.52242E+06	83.631
2250.0	203.48	-2.00299E+06	690.60	-3.55684E+06	82.571
2300.0	203.66	-1.99281E+06	695.07	-3.59148E+06	81.563
2350.0	203.82	-1.98262E+06	699.46	-3.62634E+06	80.603
2400.0	203.98	-1.97243E+06	703.75	-3.66143E+06	79.687
2450.0	204.13	-1.96222E+06	707.96	-3.69672E+06	78.813
2500.0	204.28	-1.95201E+06	712.08	-3.73222E+06	77.978
2550.0	204.41	-1.94180E+06	716.13	-3.76793E+06	77.181
2600.0	204.54	-1.93157E+06	720.10	-3.80383E+06	76.418
2650.0	204.66	-1.92134E+06	724.00	-3.83993E+06	75.688
2700.0	204.78	-1.91111E+06	727.82	-3.87623E+06	74.988
2750.0	204.89	-1.90086E+06	731.58	-3.91272E+06	74.318
2800.0	204.99	-1.89062E+06	735.27	-3.94939E+06	73.675
2850.0	205.09	-1.88037E+06	738.90	-3.98624E+06	73.058
2900.0	205.18	-1.87011E+06	742.47	-4.02328E+06	72.465
2950.0	205.27	-1.85985E+06	745.98	-4.06049E+06	71.896
3000.0	205.36	-1.84958E+06	749.43	-4.09787E+06	71.349

BCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	31.644	1.72575E+05	213.24	1.08997E+05	-19.095
300.00	31.686	1.72634E+05	213.44	1.08603E+05	-18.909
350.00	32.652	1.74243E+05	218.40	97804.	-14.596
400.00	33.392	1.75895E+05	222.81	86772.	-11.331
450.00	33.989	1.77580E+05	226.78	75531.	-8.7671
500.00	34.488	1.79292E+05	230.38	64100.	-6.6963
550.00	34.914	1.81028E+05	233.69	52497.	-4.9856
600.00	35.282	1.82783E+05	236.75	40735.	-3.5462
650.00	35.602	1.84555E+05	239.58	28826.	-2.3164
700.00	35.879	1.86342E+05	242.23	16780.	-1.2521
750.00	36.118	1.88142E+05	244.72	4605.9	-0.32077
800.00	36.322	1.89953E+05	247.05	-7688.9	0.50202
850.00	36.493	1.91774E+05	249.26	-20097.	1.2350
900.00	36.631	1.93602E+05	251.35	-32613.	1.8928
950.00	36.789	1.95438E+05	253.34	-45231.	2.4869
1000.0	36.922	1.97281E+05	255.23	-57945.	3.0267
1050.0	37.035	1.99130E+05	257.03	-70752.	3.5196
1100.0	37.133	2.00984E+05	258.76	-83647.	3.9719
1150.0	37.218	2.02843E+05	260.41	-96626.	4.3888
1200.0	37.293	2.04706E+05	261.99	-1.09686E+05	4.7744
1250.0	37.359	2.06572E+05	263.52	-1.22824E+05	5.1324
1300.0	37.419	2.08441E+05	264.98	-1.36037E+05	5.4659
1350.0	37.473	2.10314E+05	266.40	-1.49322E+05	5.7775
1400.0	37.523	2.12189E+05	267.76	-1.62676E+05	6.0694
1450.0	37.569	2.14066E+05	269.08	-1.76097E+05	6.3435
1500.0	37.613	2.15946E+05	270.35	-1.89583E+05	6.6017
1550.0	37.655	2.17827E+05	271.59	-2.03131E+05	6.8453
1600.0	37.694	2.19711E+05	272.78	-2.16741E+05	7.0757
1650.0	37.733	2.21597E+05	273.94	-2.30409E+05	7.2940
1700.0	37.771	2.23484E+05	275.07	-2.44135E+05	7.5012
1750.0	37.809	2.25374E+05	276.17	-2.57916E+05	7.6982
1800.0	37.846	2.27265E+05	277.23	-2.71751E+05	7.8858
1850.0	37.883	2.29158E+05	278.27	-2.85638E+05	8.0648
1900.0	37.921	2.31053E+05	279.28	-2.99577E+05	8.2357
1950.0	37.959	2.32951E+05	280.26	-3.13566E+05	8.3993
2000.0	37.998	2.34849E+05	281.23	-3.27603E+05	8.5559
2050.0	38.038	2.36750E+05	282.17	-3.41688E+05	8.7061
2100.0	38.079	2.38653E+05	283.08	-3.55819E+05	8.8503
2150.0	38.120	2.40558E+05	283.98	-3.69996E+05	8.9889
2200.0	38.163	2.42465E+05	284.86	-3.84217E+05	9.1222
2250.0	38.207	2.44375E+05	285.71	-3.98481E+05	9.2507
2300.0	38.253	2.46286E+05	286.55	-4.12788E+05	9.3745
2350.0	38.299	2.48200E+05	287.38	-4.27136E+05	9.4939
2400.0	38.347	2.50116E+05	288.18	-4.41525E+05	9.6093
2450.0	38.397	2.52035E+05	288.98	-4.55954E+05	9.7208
2500.0	38.448	2.53956E+05	289.75	-4.70423E+05	9.8287
2550.0	38.501	2.55879E+05	290.51	-4.84929E+05	9.9331
2600.0	38.555	2.57806E+05	291.26	-4.99474E+05	10.034
2650.0	38.612	2.59735E+05	292.00	-5.14055E+05	10.132
2700.0	38.669	2.61667E+05	292.72	-5.28673E+05	10.228
2750.0	38.729	2.63602E+05	293.43	-5.43327E+05	10.320
2800.0	38.790	2.65540E+05	294.13	-5.58016E+05	10.410
2850.0	38.854	2.67481E+05	294.81	-5.72739E+05	10.497
2900.0	38.918	2.69425E+05	295.49	-5.87497E+05	10.582
2950.0	38.985	2.71373E+05	296.16	-6.02288E+05	10.664
3000.0	39.054	2.73324E+05	296.81	-6.17112E+05	10.745

BC12<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	45.728	-60890.	271.20	-1.41747E+05	24.833
300.00	45.821	-60805.	271.48	-1.42249E+05	24.767
350.00	47.942	-58458.	278.71	-1.56007E+05	23.282
400.00	49.537	-56020.	285.22	-1.70109E+05	22.213
450.00	50.801	-53510.	291.13	-1.84520E+05	21.418
500.00	51.836	-50943.	296.54	-1.99213E+05	20.811
550.00	52.701	-48329.	301.52	-2.14167E+05	20.339
600.00	53.432	-45676.	306.14	-2.29359E+05	19.967
650.00	54.051	-42988.	310.44	-2.44775E+05	19.670
700.00	54.571	-40272.	314.47	-2.60399E+05	19.431
750.00	55.004	-37532.	318.25	-2.76218E+05	19.237
800.00	55.355	-34773.	321.81	-2.92220E+05	19.080
850.00	55.655	-31998.	325.17	-3.08395E+05	18.951
900.00	55.907	-29208.	328.36	-3.24735E+05	18.847
950.00	56.121	-26408.	331.39	-3.41229E+05	18.762
1000.0	56.304	-23597.	334.27	-3.57871E+05	18.693
1050.0	56.462	-20778.	337.03	-3.74654E+05	18.638
1100.0	56.600	-17951.	339.66	-3.91572E+05	18.594
1150.0	56.721	-15118.	342.17	-4.08618E+05	18.560
1200.0	56.829	-12279.	344.59	-4.25788E+05	18.534
1250.0	56.925	-9435.2	346.91	-4.43075E+05	18.515
1300.0	57.010	-6586.8	349.15	-4.60477E+05	18.502
1350.0	57.088	-3734.3	351.30	-4.77989E+05	18.494
1400.0	57.159	-878.09	353.38	-4.95606E+05	18.491
1450.0	57.223	1981.5	355.38	-5.13325E+05	18.492
1500.0	57.283	4844.2	357.32	-5.31143E+05	18.496
1550.0	57.338	7709.7	359.20	-5.49057E+05	18.503
1600.0	57.390	10578.	361.03	-5.67063E+05	18.512
1650.0	57.438	13449.	362.79	-5.85158E+05	18.524
1700.0	57.483	16322.	364.51	-6.03341E+05	18.538
1750.0	57.526	19197.	366.17	-6.21608E+05	18.554
1800.0	57.567	22074.	367.80	-6.39958E+05	18.571
1850.0	57.606	24954.	369.37	-6.58387E+05	18.589
1900.0	57.643	27835.	370.91	-6.76894E+05	18.609
1950.0	57.679	30718.	372.41	-6.95478E+05	18.629
2000.0	57.714	33603.	373.87	-7.14135E+05	18.651
2050.0	57.748	36489.	375.29	-7.32864E+05	18.673
2100.0	57.781	39377.	376.69	-7.51663E+05	18.696
2150.0	57.814	42267.	378.05	-7.70532E+05	18.720
2200.0	57.846	45159.	379.38	-7.89468E+05	18.744
2250.0	57.877	48052.	380.68	-8.08469E+05	18.768
2300.0	57.908	50946.	381.95	-8.27535E+05	18.793
2350.0	57.939	53843.	383.19	-8.46663E+05	18.819
2400.0	57.969	56740.	384.41	-8.65854E+05	18.844
2450.0	58.000	59640.	385.61	-8.85104E+05	18.870
2500.0	58.030	62540.	386.78	-9.04414E+05	18.896
2550.0	58.060	65443.	387.93	-9.23782E+05	18.922
2600.0	58.091	68346.	389.06	-9.43207E+05	18.949
2650.0	58.121	71252.	390.17	-9.62688E+05	18.975
2700.0	58.151	74158.	391.25	-9.82223E+05	19.002
2750.0	58.182	77067.	392.32	-1.00181E+06	19.028
2800.0	58.213	79977.	393.37	-1.02145E+06	19.055
2850.0	58.244	82888.	394.40	-1.04115E+06	19.082
2900.0	58.275	85801.	395.41	-1.06089E+06	19.108
2950.0	58.306	88716.	396.41	-1.08069E+06	19.135
3000.0	58.338	91632.	397.39	-1.10054E+06	19.162

B2Cl4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	94.857	-4.89110E+05	358.96	-5.96133E+05	104.44
300.00	95.083	-4.88934E+05	359.55	-5.96798E+05	103.91
350.00	100.47	-4.84040E+05	374.62	-6.15158E+05	91.805
400.00	104.80	-4.78904E+05	388.33	-6.34238E+05	82.821
450.00	108.36	-4.73573E+05	400.89	-6.53972E+05	75.909
500.00	111.31	-4.68079E+05	412.46	-6.74310E+05	70.443
550.00	113.73	-4.62450E+05	423.19	-6.95205E+05	66.023
600.00	115.68	-4.56713E+05	433.17	-7.16617E+05	62.385
650.00	117.21	-4.50890E+05	442.49	-7.38511E+05	59.346
700.00	118.54	-4.44996E+05	451.23	-7.60856E+05	56.774
750.00	119.73	-4.39038E+05	459.45	-7.83625E+05	54.575
800.00	120.79	-4.33025E+05	467.21	-8.06794E+05	52.677
850.00	121.55	-4.26966E+05	474.56	-8.30339E+05	51.025
900.00	122.24	-4.20871E+05	481.52	-8.54243E+05	49.578
950.00	122.88	-4.14743E+05	488.15	-8.78486E+05	48.301
1000.0	123.47	-4.08584E+05	494.47	-9.03053E+05	47.169
1050.0	123.83	-4.02401E+05	500.50	-9.27928E+05	46.161
1100.0	124.18	-3.96200E+05	506.27	-9.53099E+05	45.258
1150.0	124.52	-3.89983E+05	511.80	-9.78551E+05	44.446
1200.0	124.85	-3.83748E+05	517.11	-1.00427E+06	43.714
1250.0	125.16	-3.77498E+05	522.21	-1.03026E+06	43.051
1300.0	125.44	-3.71233E+05	527.12	-1.05649E+06	42.449
1350.0	125.71	-3.64954E+05	531.86	-1.08297E+06	41.901
1400.0	125.94	-3.58663E+05	536.44	-1.10968E+06	41.401
1450.0	126.16	-3.52360E+05	540.86	-1.13661E+06	40.944
1500.0	126.34	-3.46048E+05	545.14	-1.16376E+06	40.525
1550.0	126.49	-3.39727E+05	549.29	-1.19112E+06	40.139
1600.0	126.62	-3.33399E+05	553.30	-1.21869E+06	39.785
1650.0	126.75	-3.27064E+05	557.20	-1.24645E+06	39.458
1700.0	126.87	-3.20724E+05	560.99	-1.27440E+06	39.157
1750.0	126.98	-3.14377E+05	564.67	-1.30255E+06	38.878
1800.0	127.08	-3.08026E+05	568.25	-1.33087E+06	38.620
1850.0	127.17	-3.01669E+05	571.73	-1.35937E+06	38.381
1900.0	127.26	-2.95309E+05	575.12	-1.38804E+06	38.159
1950.0	127.34	-2.88944E+05	578.43	-1.41688E+06	37.953
2000.0	127.41	-2.82575E+05	581.65	-1.44588E+06	37.762
2050.0	127.48	-2.76203E+05	584.80	-1.47504E+06	37.584
2100.0	127.54	-2.69827E+05	587.87	-1.50436E+06	37.418
2150.0	127.60	-2.63448E+05	590.88	-1.53383E+06	37.264
2200.0	127.66	-2.57067E+05	593.81	-1.56345E+06	37.120
2250.0	127.71	-2.50682E+05	596.68	-1.59321E+06	36.986
2300.0	127.76	-2.44296E+05	599.49	-1.62312E+06	36.861
2350.0	127.81	-2.37906E+05	602.23	-1.65316E+06	36.745
2400.0	127.85	-2.31515E+05	604.93	-1.68334E+06	36.636
2450.0	127.89	-2.25122E+05	607.56	-1.71365E+06	36.535
2500.0	127.93	-2.18726E+05	610.15	-1.74409E+06	36.440
2550.0	127.96	-2.12329E+05	612.68	-1.77466E+06	36.352
2600.0	128.00	-2.05930E+05	615.17	-1.80536E+06	36.269
2650.0	128.03	-1.99529E+05	617.60	-1.83618E+06	36.192
2700.0	128.06	-1.93127E+05	620.00	-1.86712E+06	36.121
2750.0	128.09	-1.86723E+05	622.35	-1.89818E+06	36.054
2800.0	128.12	-1.80318E+05	624.66	-1.92935E+06	35.992
2850.0	128.14	-1.73911E+05	626.92	-1.96064E+06	35.934
2900.0	128.17	-1.67504E+05	629.15	-1.99205E+06	35.880
2950.0	128.19	-1.61095E+05	631.34	-2.02356E+06	35.830
3000.0	128.21	-1.54685E+05	633.50	-2.05518E+06	35.783

BC13<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.403	-4.02961E+05	290.18	-4.89478E+05	85.752
300.00	62.539	-4.02845E+05	290.56	-4.90015E+05	85.317
350.00	65.797	-3.99634E+05	300.46	-5.04795E+05	75.335
400.00	68.420	-3.96276E+05	309.42	-5.20045E+05	67.909
450.00	70.582	-3.92800E+05	317.61	-5.35724E+05	62.184
500.00	72.376	-3.89224E+05	325.14	-5.51795E+05	57.644
550.00	73.851	-3.85567E+05	332.11	-5.68229E+05	53.965
600.00	75.040	-3.81844E+05	338.59	-5.84998E+05	50.927
650.00	76.071	-3.78065E+05	344.64	-6.02081E+05	48.383
700.00	76.909	-3.74240E+05	350.31	-6.19456E+05	46.223
750.00	77.602	-3.70377E+05	355.64	-6.37106E+05	44.371
800.00	78.185	-3.66482E+05	360.67	-6.55015E+05	42.767
850.00	78.682	-3.62560E+05	365.42	-6.73168E+05	41.367
900.00	79.109	-3.58615E+05	369.93	-6.91553E+05	40.136
950.00	79.481	-3.54650E+05	374.22	-7.10158E+05	39.046
1000.0	79.807	-3.50667E+05	378.30	-7.28971E+05	38.077
1050.0	80.094	-3.46670E+05	382.21	-7.47985E+05	37.209
1100.0	80.349	-3.42658E+05	385.94	-7.67189E+05	36.430
1150.0	80.576	-3.38635E+05	389.51	-7.86576E+05	35.727
1200.0	80.779	-3.34601E+05	392.95	-8.06138E+05	35.089
1250.0	80.960	-3.30558E+05	396.25	-8.25869E+05	34.510
1300.0	81.123	-3.26505E+05	399.43	-8.45761E+05	33.982
1350.0	81.270	-3.22446E+05	402.49	-8.65809E+05	33.499
1400.0	81.401	-3.18379E+05	405.45	-8.86008E+05	33.057
1450.0	81.519	-3.14306E+05	408.31	-9.06353E+05	32.650
1500.0	81.624	-3.10227E+05	411.07	-9.26838E+05	32.275
1550.0	81.717	-3.06143E+05	413.75	-9.47459E+05	31.928
1600.0	81.800	-3.02056E+05	416.35	-9.68211E+05	31.608
1650.0	81.872	-2.97964E+05	418.87	-9.89092E+05	31.311
1700.0	81.935	-2.93868E+05	421.31	-1.01010E+06	31.036
1750.0	82.002	-2.89770E+05	423.69	-1.03122E+06	30.780
1800.0	82.064	-2.85668E+05	426.00	-1.05246E+06	30.541
1850.0	82.121	-2.81564E+05	428.25	-1.07382E+06	30.318
1900.0	82.174	-2.77456E+05	430.44	-1.09529E+06	30.111
1950.0	82.222	-2.73346E+05	432.57	-1.11686E+06	29.917
2000.0	82.267	-2.69234E+05	434.66	-1.13854E+06	29.735
2050.0	82.309	-2.65120E+05	436.69	-1.16033E+06	29.565
2100.0	82.347	-2.61003E+05	438.67	-1.18221E+06	29.405
2150.0	82.384	-2.56885E+05	440.61	-1.20419E+06	29.255
2200.0	82.417	-2.52765E+05	442.50	-1.22627E+06	29.115
2250.0	82.449	-2.48643E+05	444.36	-1.24844E+06	28.982
2300.0	82.478	-2.44520E+05	446.17	-1.27071E+06	28.858
2350.0	82.506	-2.40396E+05	447.94	-1.29306E+06	28.741
2400.0	82.532	-2.36270E+05	449.68	-1.31550E+06	28.630
2450.0	82.556	-2.32142E+05	451.38	-1.33803E+06	28.526
2500.0	82.579	-2.28014E+05	453.05	-1.36064E+06	28.428
2550.0	82.601	-2.23884E+05	454.69	-1.38333E+06	28.336
2600.0	82.621	-2.19754E+05	456.29	-1.40611E+06	28.248
2650.0	82.641	-2.15622E+05	457.86	-1.42896E+06	28.166
2700.0	82.659	-2.11490E+05	459.41	-1.45189E+06	28.088
2750.0	82.676	-2.07356E+05	460.93	-1.47490E+06	28.014
2800.0	82.693	-2.03222E+05	462.42	-1.49798E+06	27.945
2850.0	82.708	-1.99087E+05	463.88	-1.52114E+06	27.879
2900.0	82.723	-1.94951E+05	465.32	-1.54437E+06	27.816
2950.0	82.737	-1.90815E+05	466.73	-1.56767E+06	27.758
3000.0	82.750	-1.86678E+05	468.12	-1.59104E+06	27.702

BOCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	45.048	-3.16310E+05	237.43	-3.87099E+05	67.816
300.00	45.133	-3.16227E+05	237.70	-3.87538E+05	67.475
350.00	47.141	-3.13918E+05	244.82	-3.99605E+05	59.636
400.00	48.734	-3.11520E+05	251.22	-4.12009E+05	53.801
450.00	50.063	-3.09049E+05	257.04	-4.24717E+05	49.299
500.00	51.211	-3.06516E+05	262.38	-4.37705E+05	45.726
550.00	52.223	-3.03930E+05	267.31	-4.50948E+05	42.826
600.00	53.126	-3.01296E+05	271.89	-4.64430E+05	40.431
650.00	53.938	-2.98619E+05	276.17	-4.78132E+05	38.422
700.00	54.670	-2.95903E+05	280.20	-4.92043E+05	36.716
750.00	55.331	-2.93153E+05	283.99	-5.06148E+05	35.250
800.00	55.925	-2.90371E+05	287.58	-5.20439E+05	33.980
850.00	56.456	-2.87562E+05	290.99	-5.34904E+05	32.870
900.00	56.927	-2.84727E+05	294.23	-5.49535E+05	31.893
950.00	57.340	-2.81870E+05	297.32	-5.64324E+05	31.028
1000.0	57.697	-2.78994E+05	300.27	-5.79265E+05	30.257
1050.0	58.061	-2.76100E+05	303.09	-5.94349E+05	29.567
1100.0	58.380	-2.73188E+05	305.80	-6.09572E+05	28.945
1150.0	58.663	-2.70262E+05	308.40	-6.24928E+05	28.384
1200.0	58.914	-2.67323E+05	310.91	-6.40411E+05	27.876
1250.0	59.139	-2.64371E+05	313.32	-6.56017E+05	27.413
1300.0	59.342	-2.61409E+05	315.64	-6.71741E+05	26.990
1350.0	59.526	-2.58437E+05	317.88	-6.87580E+05	26.603
1400.0	59.693	-2.55457E+05	320.05	-7.03528E+05	26.248
1450.0	59.845	-2.52468E+05	322.15	-7.19583E+05	25.922
1500.0	59.985	-2.49473E+05	324.18	-7.35742E+05	25.620
1550.0	60.114	-2.46470E+05	326.15	-7.52000E+05	25.342
1600.0	60.232	-2.43461E+05	328.06	-7.68356E+05	25.084
1650.0	60.342	-2.40447E+05	329.91	-7.84805E+05	24.844
1700.0	60.444	-2.37427E+05	331.72	-8.01346E+05	24.622
1750.0	60.540	-2.34403E+05	333.47	-8.17976E+05	24.415
1800.0	60.628	-2.31373E+05	335.18	-8.34693E+05	24.222
1850.0	60.711	-2.28340E+05	336.84	-8.51493E+05	24.041
1900.0	60.789	-2.25302E+05	338.46	-8.68376E+05	23.873
1950.0	60.862	-2.22261E+05	340.04	-8.85338E+05	23.715
2000.0	60.931	-2.19216E+05	341.58	-9.02379E+05	23.567
2050.0	60.995	-2.16168E+05	343.09	-9.19496E+05	23.428
2100.0	61.056	-2.13117E+05	344.56	-9.36687E+05	23.298
2150.0	61.114	-2.10063E+05	345.99	-9.53951E+05	23.176
2200.0	61.168	-2.07005E+05	347.40	-9.71286E+05	23.061
2250.0	61.219	-2.03946E+05	348.78	-9.88691E+05	22.952
2300.0	61.268	-2.00884E+05	350.12	-1.00616E+06	22.850
2350.0	61.314	-1.97819E+05	351.44	-1.02370E+06	22.754
2400.0	61.357	-1.94752E+05	352.73	-1.04131E+06	22.663
2450.0	61.398	-1.91683E+05	354.00	-1.05898E+06	22.577
2500.0	61.437	-1.88612E+05	355.24	-1.07671E+06	22.496
2550.0	61.474	-1.85540E+05	356.45	-1.09450E+06	22.419
2600.0	61.509	-1.82465E+05	357.65	-1.11235E+06	22.347
2650.0	61.542	-1.79389E+05	358.82	-1.13026E+06	22.278
2700.0	61.574	-1.76311E+05	359.97	-1.14823E+06	22.213
2750.0	61.603	-1.73231E+05	361.10	-1.16626E+06	22.152
2800.0	61.631	-1.70151E+05	362.21	-1.18434E+06	22.094
2850.0	61.657	-1.67068E+05	363.30	-1.20248E+06	22.038
2900.0	61.682	-1.63985E+05	364.38	-1.22067E+06	21.986
2950.0	61.706	-1.60900E+05	365.43	-1.23892E+06	21.937
3000.0	61.727	-1.57814E+05	366.47	-1.25722E+06	21.890

(BOCl)3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	131.56	-1.63176E+06	382.39	-1.74577E+06	305.84
300.00	131.96	-1.63152E+06	383.20	-1.74648E+06	304.08
350.00	142.24	-1.62466E+06	404.33	-1.76617E+06	263.58
400.00	151.71	-1.61731E+06	423.95	-1.78689E+06	233.34
450.00	159.42	-1.60952E+06	442.28	-1.80855E+06	209.93
500.00	165.76	-1.60139E+06	459.41	-1.83109E+06	191.29
550.00	171.09	-1.59296E+06	475.47	-1.85447E+06	176.12
600.00	175.62	-1.58429E+06	490.56	-1.87862E+06	163.54
650.00	179.46	-1.57541E+06	504.77	-1.90351E+06	152.96
700.00	182.65	-1.56636E+06	518.19	-1.92909E+06	143.95
750.00	185.34	-1.55715E+06	530.89	-1.95532E+06	136.18
800.00	187.65	-1.54783E+06	542.92	-1.98217E+06	129.42
850.00	189.65	-1.53839E+06	554.36	-2.00960E+06	123.49
900.00	191.38	-1.52887E+06	565.25	-2.03759E+06	118.26
950.00	192.90	-1.51926E+06	575.64	-2.06612E+06	113.60
1000.0	194.23	-1.50958E+06	585.57	-2.09515E+06	109.44
1050.0	195.40	-1.49984E+06	595.07	-2.12467E+06	105.69
1100.0	196.43	-1.49004E+06	604.19	-2.15465E+06	102.31
1150.0	197.32	-1.48020E+06	612.94	-2.18508E+06	99.247
1200.0	198.10	-1.47031E+06	621.36	-2.21594E+06	96.455
1250.0	198.83	-1.46039E+06	629.46	-2.24721E+06	93.903
1300.0	199.48	-1.45043E+06	637.27	-2.27888E+06	91.564
1350.0	200.05	-1.44044E+06	644.81	-2.31093E+06	89.413
1400.0	200.57	-1.43043E+06	652.09	-2.34336E+06	87.429
1450.0	201.04	-1.42039E+06	659.14	-2.37614E+06	85.596
1500.0	201.47	-1.41032E+06	665.96	-2.40927E+06	83.896
1550.0	201.86	-1.40024E+06	672.57	-2.44273E+06	82.317
1600.0	202.21	-1.39014E+06	678.99	-2.47652E+06	80.848
1650.0	202.53	-1.38002E+06	685.22	-2.51063E+06	79.478
1700.0	202.82	-1.36989E+06	691.27	-2.54504E+06	78.198
1750.0	203.10	-1.35974E+06	697.15	-2.57975E+06	76.999
1800.0	203.35	-1.34958E+06	702.88	-2.61475E+06	75.876
1850.0	203.58	-1.33940E+06	708.45	-2.65003E+06	74.822
1900.0	203.79	-1.32922E+06	713.88	-2.68559E+06	73.830
1950.0	203.99	-1.31902E+06	719.18	-2.72142E+06	72.897
2000.0	204.18	-1.30882E+06	724.34	-2.75751E+06	72.017
2050.0	204.35	-1.29861E+06	729.39	-2.79385E+06	71.186
2100.0	204.51	-1.28839E+06	734.31	-2.83045E+06	70.402
2150.0	204.66	-1.27816E+06	739.13	-2.86728E+06	69.659
2200.0	204.80	-1.26792E+06	743.84	-2.90436E+06	68.956
2250.0	204.93	-1.25768E+06	748.44	-2.94166E+06	68.290
2300.0	205.06	-1.24743E+06	752.94	-2.97920E+06	67.658
2350.0	205.17	-1.23717E+06	757.36	-3.01696E+06	67.058
2400.0	205.28	-1.22691E+06	761.68	-3.05493E+06	66.487
2450.0	205.39	-1.21664E+06	765.91	-3.09312E+06	65.945
2500.0	205.48	-1.20637E+06	770.06	-3.13152E+06	65.428
2550.0	205.58	-1.19609E+06	774.13	-3.17013E+06	64.936
2600.0	205.66	-1.18581E+06	778.12	-3.20894E+06	64.467
2650.0	205.75	-1.17553E+06	782.04	-3.24794E+06	64.019
2700.0	205.83	-1.16524E+06	785.89	-3.28714E+06	63.592
2750.0	205.90	-1.15494E+06	789.67	-3.32653E+06	63.184
2800.0	205.97	-1.14465E+06	793.38	-3.36610E+06	62.794
2850.0	206.04	-1.13435E+06	797.02	-3.40586E+06	62.421
2900.0	206.10	-1.12404E+06	800.61	-3.44580E+06	62.064
2950.0	206.16	-1.11374E+06	804.13	-3.48592E+06	61.722
3000.0	206.22	-1.10343E+06	807.60	-3.52622E+06	61.395

BBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.773	2.30354E+05	224.99	1.63274E+05	-28.604
300.00	32.816	2.30415E+05	225.19	1.62857E+05	-28.355
350.00	33.763	2.32081E+05	230.33	1.51466E+05	-22.605
400.00	34.437	2.33786E+05	234.88	1.39834E+05	-18.260
450.00	34.948	2.35522E+05	238.97	1.27986E+05	-14.856
500.00	35.355	2.37280E+05	242.67	1.15944E+05	-12.112
550.00	35.689	2.39056E+05	246.06	1.03724E+05	-9.8507
600.00	35.970	2.40848E+05	249.18	91342.	-7.9519
650.00	36.211	2.42652E+05	252.06	78811.	-6.3331
700.00	36.420	2.44468E+05	254.76	66139.	-4.9353
750.00	36.602	2.46294E+05	257.27	53338.	-3.7147
800.00	36.761	2.48128E+05	259.64	40414.	-2.6387
850.00	36.901	2.49970E+05	261.87	27376.	-1.6823
900.00	37.022	2.51818E+05	263.99	14229.	-0.82581
950.00	37.127	2.53671E+05	265.99	979.04	-5.3E-02
1000.0	37.216	2.55530E+05	267.90	-12369.	0.64605
1050.0	37.291	2.57393E+05	269.72	-25809.	1.2839
1100.0	37.351	2.59259E+05	271.45	-39339.	1.8680
1150.0	37.449	2.61129E+05	273.12	-52953.	2.4052
1200.0	37.532	2.63004E+05	274.71	-66649.	2.9011
1250.0	37.603	2.64882E+05	276.24	-80423.	3.3606
1300.0	37.664	2.66764E+05	277.72	-94273.	3.7878
1350.0	37.716	2.68648E+05	279.14	-1.08195E+05	4.1862
1400.0	37.763	2.70535E+05	280.52	-1.22186E+05	4.5587
1450.0	37.804	2.72425E+05	281.84	-1.36245E+05	4.9080
1500.0	37.842	2.74316E+05	283.12	-1.50370E+05	5.2362
1550.0	37.877	2.76209E+05	284.36	-1.64557E+05	5.5454
1600.0	37.910	2.78103E+05	285.57	-1.78806E+05	5.8373
1650.0	37.942	2.80000E+05	286.74	-1.93113E+05	6.1133
1700.0	37.973	2.81898E+05	287.87	-2.07478E+05	6.3749
1750.0	38.004	2.83797E+05	288.97	-2.21900E+05	6.6232
1800.0	38.036	2.85698E+05	290.04	-2.36375E+05	6.8592
1850.0	38.068	2.87601E+05	291.08	-2.50903E+05	7.0841
1900.0	38.101	2.89505E+05	292.10	-2.65483E+05	7.2984
1950.0	38.135	2.91411E+05	293.09	-2.80113E+05	7.5032
2000.0	38.171	2.93318E+05	294.05	-2.94791E+05	7.6990
2050.0	38.209	2.95228E+05	295.00	-3.09518E+05	7.8864
2100.0	38.249	2.97139E+05	295.92	-3.24291E+05	8.0661
2150.0	38.291	2.99053E+05	296.82	-3.39109E+05	8.2385
2200.0	38.336	3.00968E+05	297.70	-3.53972E+05	8.4042
2250.0	38.383	3.02886E+05	298.56	-3.68879E+05	8.5635
2300.0	38.432	3.04807E+05	299.41	-3.83828E+05	8.7168
2350.0	38.484	3.06730E+05	300.23	-3.98819E+05	8.8645
2400.0	38.539	3.08655E+05	301.04	-4.13851E+05	9.0070
2450.0	38.597	3.10584E+05	301.84	-4.28923E+05	9.1445
2500.0	38.658	3.12515E+05	302.62	-4.44035E+05	9.2774
2550.0	38.722	3.14449E+05	303.39	-4.59185E+05	9.4058
2600.0	38.789	3.16387E+05	304.14	-4.74373E+05	9.5300
2650.0	38.859	3.18328E+05	304.88	-4.89599E+05	9.6503
2700.0	38.933	3.20273E+05	305.61	-5.04861E+05	9.7669
2750.0	39.010	3.22222E+05	306.32	-5.20159E+05	9.8799
2800.0	39.090	3.24174E+05	307.02	-5.35493E+05	9.9895
2850.0	39.173	3.26131E+05	307.72	-5.50861E+05	10.096
2900.0	39.260	3.28092E+05	308.40	-5.66264E+05	10.199
2950.0	39.351	3.30057E+05	309.07	-5.81701E+05	10.300
3000.0	39.445	3.32027E+05	309.73	-5.97171E+05	10.397

BBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	48.433	87231.	294.53	-584.31	0.10237
300.00	48.518	87321.	294.83	-1129.5	0.19665
350.00	50.409	89797.	302.46	-16066.	2.3976
400.00	51.760	92353.	309.29	-31362.	4.0954
450.00	52.785	94967.	315.45	-46983.	5.4535
500.00	53.594	97628.	321.05	-62898.	6.5707
550.00	54.252	1.00324E+05	326.19	-79081.	7.5103
600.00	54.797	1.03051E+05	330.94	-95510.	8.3147
650.00	55.253	1.05802E+05	335.34	-1.12169E+05	9.0137
700.00	55.635	1.08575E+05	339.45	-1.29039E+05	9.6288
750.00	55.956	1.11365E+05	343.30	-1.46109E+05	10.176
800.00	56.222	1.14170E+05	346.92	-1.63365E+05	10.666
850.00	56.438	1.16986E+05	350.33	-1.80798E+05	11.110
900.00	56.609	1.19813E+05	353.56	-1.98396E+05	11.514
950.00	56.728	1.22646E+05	356.63	-2.16151E+05	11.885
1000.0	56.837	1.25485E+05	359.54	-2.34056E+05	12.226
1050.0	56.937	1.28330E+05	362.32	-2.52103E+05	12.541
1100.0	57.029	1.31179E+05	364.97	-2.70286E+05	12.834
1150.0	57.117	1.34032E+05	367.50	-2.88598E+05	13.108
1200.0	57.199	1.36890E+05	369.94	-3.07035E+05	13.365
1250.0	57.277	1.39752E+05	372.27	-3.25590E+05	13.605
1300.0	57.353	1.42618E+05	374.52	-3.44260E+05	13.832
1350.0	57.425	1.45488E+05	376.69	-3.63041E+05	14.047
1400.0	57.496	1.48361E+05	378.78	-3.81928E+05	14.250
1450.0	57.564	1.51237E+05	380.80	-4.00918E+05	14.442
1500.0	57.631	1.54117E+05	382.75	-4.20006E+05	14.626
1550.0	57.697	1.57000E+05	384.64	-4.39191E+05	14.800
1600.0	57.762	1.59887E+05	386.47	-4.58469E+05	14.967
1650.0	57.826	1.62776E+05	388.25	-4.77838E+05	15.127
1700.0	57.889	1.65669E+05	389.98	-4.97294E+05	15.280
1750.0	57.952	1.68565E+05	391.66	-5.16835E+05	15.426
1800.0	58.014	1.71464E+05	393.29	-5.36459E+05	15.567
1850.0	58.076	1.74367E+05	394.88	-5.56163E+05	15.703
1900.0	58.138	1.77272E+05	396.43	-5.75946E+05	15.833
1950.0	58.199	1.80180E+05	397.94	-5.95806E+05	15.959
2000.0	58.261	1.83092E+05	399.42	-6.15740E+05	16.081
2050.0	58.323	1.86006E+05	400.86	-6.35747E+05	16.199
2100.0	58.384	1.88924E+05	402.26	-6.55825E+05	16.312
2150.0	58.446	1.91845E+05	403.64	-6.75972E+05	16.422
2200.0	58.508	1.94769E+05	404.98	-6.96188E+05	16.529
2250.0	58.570	1.97696E+05	406.30	-7.16470E+05	16.633
2300.0	58.633	2.00626E+05	407.58	-7.36817E+05	16.733
2350.0	58.695	2.03559E+05	408.85	-7.57228E+05	16.831
2400.0	58.758	2.06495E+05	410.08	-7.77701E+05	16.926
2450.0	58.822	2.09435E+05	411.29	-7.98235E+05	17.018
2500.0	58.885	2.12377E+05	412.48	-8.18830E+05	17.108
2550.0	58.949	2.15323E+05	413.65	-8.39483E+05	17.196
2600.0	59.013	2.18272E+05	414.79	-8.60194E+05	17.281
2650.0	59.078	2.21225E+05	415.92	-8.80962E+05	17.364
2700.0	59.143	2.24180E+05	417.02	-9.01786E+05	17.446
2750.0	59.209	2.27139E+05	418.11	-9.22665E+05	17.525
2800.0	59.274	2.30101E+05	419.18	-9.43597E+05	17.603
2850.0	59.341	2.33066E+05	420.23	-9.64582E+05	17.678
2900.0	59.408	2.36035E+05	421.26	-9.85619E+05	17.752
2950.0	59.475	2.39007E+05	422.28	-1.00671E+06	17.825
3000.0	59.543	2.41983E+05	423.28	-1.02785E+06	17.896

BBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	67.782	-2.04179E+05	324.32	-3.00874E+05	52.710
300.00	67.895	-2.04054E+05	324.73	-3.01474E+05	52.490
350.00	70.551	-2.00590E+05	335.41	-3.17983E+05	47.455
400.00	72.625	-1.97008E+05	344.97	-3.34997E+05	43.745
450.00	74.291	-1.93334E+05	353.62	-3.52465E+05	40.912
500.00	75.643	-1.89584E+05	361.52	-3.70346E+05	38.689
550.00	76.733	-1.85774E+05	368.79	-3.88607E+05	36.906
600.00	77.592	-1.81915E+05	375.50	-4.07216E+05	35.450
650.00	78.338	-1.78016E+05	381.74	-4.26149E+05	34.245
700.00	78.937	-1.74083E+05	387.57	-4.45383E+05	33.234
750.00	79.426	-1.70124E+05	393.03	-4.64900E+05	32.378
800.00	79.832	-1.66142E+05	398.17	-4.84681E+05	31.646
850.00	80.173	-1.62142E+05	403.02	-5.04713E+05	31.015
900.00	80.464	-1.58126E+05	407.62	-5.24980E+05	30.468
950.00	80.713	-1.54096E+05	411.97	-5.45470E+05	29.991
1000.0	80.930	-1.50055E+05	416.12	-5.66173E+05	29.573
1050.0	81.119	-1.46004E+05	420.07	-5.87079E+05	29.205
1100.0	81.286	-1.41943E+05	423.85	-6.08178E+05	28.879
1150.0	81.434	-1.37875E+05	427.47	-6.29461E+05	28.590
1200.0	81.566	-1.33800E+05	430.93	-6.50922E+05	28.333
1250.0	81.685	-1.29719E+05	434.27	-6.72552E+05	28.104
1300.0	81.791	-1.25632E+05	437.47	-6.94346E+05	27.898
1350.0	81.888	-1.21540E+05	440.56	-7.16298E+05	27.715
1400.0	81.975	-1.17443E+05	443.54	-7.38401E+05	27.549
1450.0	82.055	-1.13343E+05	446.42	-7.60650E+05	27.401
1500.0	82.127	-1.09238E+05	449.20	-7.83041E+05	27.267
1550.0	82.193	-1.05130E+05	451.90	-8.05569E+05	27.147
1600.0	82.254	-1.01019E+05	454.51	-8.28229E+05	27.038
1650.0	82.309	-96905.	457.04	-8.51018E+05	26.940
1700.0	82.360	-92788.	459.50	-8.73932E+05	26.852
1750.0	82.407	-88669.	461.88	-8.96967E+05	26.772
1800.0	82.449	-84547.	464.21	-9.20119E+05	26.700
1850.0	82.488	-80424.	466.47	-9.43386E+05	26.636
1900.0	82.524	-76299.	468.67	-9.66765E+05	26.578
1950.0	82.556	-72172.	470.81	-9.90252E+05	26.525
2000.0	82.586	-68043.	472.90	-1.01384E+06	26.478
2050.0	82.612	-63913.	474.94	-1.03754E+06	26.436
2100.0	82.637	-59782.	476.93	-1.06134E+06	26.399
2150.0	82.658	-55649.	478.88	-1.08523E+06	26.365
2200.0	82.677	-51516.	480.78	-1.10922E+06	26.336
2250.0	82.694	-47382.	482.63	-1.13331E+06	26.310
2300.0	82.709	-43247.	484.45	-1.15749E+06	26.287
2350.0	82.727	-39111.	486.23	-1.18176E+06	26.267
2400.0	82.744	-34974.	487.97	-1.20611E+06	26.250
2450.0	82.761	-30836.	489.68	-1.23055E+06	26.235
2500.0	82.776	-26698.	491.35	-1.25508E+06	26.223
2550.0	82.790	-22559.	492.99	-1.27969E+06	26.213
2600.0	82.803	-18419.	494.60	-1.30438E+06	26.205
2650.0	82.816	-14278.	496.18	-1.32915E+06	26.198
2700.0	82.828	-10137.	497.72	-1.35399E+06	26.194
2750.0	82.839	-5995.6	499.24	-1.37892E+06	26.191
2800.0	82.850	-1853.4	500.74	-1.40392E+06	26.190
2850.0	82.860	2289.4	502.20	-1.42899E+06	26.190
2900.0	82.870	6432.7	503.64	-1.45414E+06	26.191
2950.0	82.879	10576.	505.06	-1.47936E+06	26.194
3000.0	82.888	14721.	506.45	-1.50464E+06	26.198

BI<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.716	3.15389E+05	233.35	2.45815E+05	-43.065
300.00	33.755	3.15451E+05	233.56	2.45384E+05	-42.724
350.00	34.609	3.17162E+05	238.83	2.33571E+05	-34.858
400.00	35.193	3.18908E+05	243.49	2.21510E+05	-28.926
450.00	35.620	3.20679E+05	247.66	2.09230E+05	-24.286
500.00	35.948	3.22468E+05	251.43	1.96751E+05	-20.554
550.00	36.209	3.24272E+05	254.87	1.84092E+05	-17.483
600.00	36.424	3.26088E+05	258.03	1.71268E+05	-14.910
650.00	36.606	3.27914E+05	260.96	1.58292E+05	-12.720
700.00	36.762	3.29748E+05	263.68	1.45176E+05	-10.833
750.00	36.899	3.31590E+05	266.22	1.31928E+05	-9.1880
800.00	37.020	3.33438E+05	268.60	1.18557E+05	-7.7408
850.00	37.128	3.35292E+05	270.85	1.05070E+05	-6.4566
900.00	37.225	3.37151E+05	272.97	91474.	-5.3089
950.00	37.313	3.39014E+05	274.99	77774.	-4.2762
1000.0	37.393	3.40882E+05	276.91	63976.	-3.3417
1050.0	37.465	3.42753E+05	278.73	50085.	-2.4915
1100.0	37.531	3.44628E+05	280.48	36105.	-1.7144
1150.0	37.590	3.46506E+05	282.15	22039.	-1.0010
1200.0	37.644	3.48387E+05	283.75	7891.2	-0.34349
1250.0	37.693	3.50271E+05	285.28	-6334.9	0.26471
1300.0	37.736	3.52157E+05	286.76	-20636.	0.82916
1350.0	37.775	3.54044E+05	288.19	-35010.	1.3546
1400.0	37.809	3.55934E+05	289.56	-49454.	1.8451
1450.0	37.854	3.57826E+05	290.89	-63966.	2.3042
1500.0	37.894	3.59719E+05	292.17	-78543.	2.7350
1550.0	37.932	3.61615E+05	293.42	-93183.	3.1402
1600.0	37.969	3.63512E+05	294.62	-1.07884E+05	3.5220
1650.0	38.005	3.65412E+05	295.79	-1.22644E+05	3.8825
1700.0	38.042	3.67313E+05	296.93	-1.37462E+05	4.2236
1750.0	38.079	3.69216E+05	298.03	-1.52336E+05	4.5469
1800.0	38.118	3.71121E+05	299.10	-1.67265E+05	4.8538
1850.0	38.159	3.73028E+05	300.15	-1.82246E+05	5.1456
1900.0	38.202	3.74937E+05	301.17	-1.97279E+05	5.4234
1950.0	38.248	3.76848E+05	302.16	-2.12362E+05	5.6884
2000.0	38.297	3.78762E+05	303.13	-2.27495E+05	5.9414
2050.0	38.349	3.80678E+05	304.07	-2.42675E+05	6.1833
2100.0	38.405	3.82597E+05	305.00	-2.57902E+05	6.4148
2150.0	38.465	3.84518E+05	305.90	-2.73175E+05	6.6367
2200.0	38.529	3.86443E+05	306.79	-2.88492E+05	6.8495
2250.0	38.596	3.88371E+05	307.66	-3.03853E+05	7.0539
2300.0	38.669	3.90303E+05	308.50	-3.19257E+05	7.2504
2350.0	38.745	3.92238E+05	309.34	-3.34703E+05	7.4394
2400.0	38.827	3.94178E+05	310.15	-3.50191E+05	7.6215
2450.0	38.913	3.96121E+05	310.95	-3.65718E+05	7.7970
2500.0	39.004	3.98069E+05	311.74	-3.81286E+05	7.9663
2550.0	39.100	4.00022E+05	312.52	-3.96892E+05	8.1298
2600.0	39.200	4.01979E+05	313.28	-4.12537E+05	8.2878
2650.0	39.306	4.03942E+05	314.02	-4.28220E+05	8.4405
2700.0	39.417	4.05910E+05	314.76	-4.43939E+05	8.5883
2750.0	39.533	4.07883E+05	315.48	-4.59695E+05	8.7314
2800.0	39.655	4.09863E+05	316.20	-4.75487E+05	8.8701
2850.0	39.782	4.11849E+05	316.90	-4.91315E+05	9.0046
2900.0	39.914	4.13841E+05	317.59	-5.07177E+05	9.1350
2950.0	40.052	4.15841E+05	318.28	-5.23074E+05	9.2617
3000.0	40.195	4.17847E+05	318.95	-5.39005E+05	9.3847

BI2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.270	2.27498E+05	311.11	1.34741E+05	-23.605
300.00	50.348	2.27591E+05	311.42	1.34165E+05	-23.360
350.00	52.045	2.30154E+05	319.32	1.18393E+05	-17.669
400.00	53.205	2.32787E+05	326.35	1.02248E+05	-13.352
450.00	54.049	2.35469E+05	332.67	85770.	-9.9556
500.00	54.692	2.38188E+05	338.39	68991.	-7.2073
550.00	55.200	2.40936E+05	343.63	51938.	-4.9326
600.00	55.612	2.43707E+05	348.45	34635.	-3.0151
650.00	55.954	2.46496E+05	352.92	17099.	-1.3741
700.00	56.241	2.49301E+05	357.08	-652.07	4.8E-02
750.00	56.486	2.52120E+05	360.96	-18604.	1.2957
800.00	56.694	2.54949E+05	364.62	-36745.	2.3991
850.00	56.873	2.57788E+05	368.06	-55062.	3.3836
900.00	57.026	2.60636E+05	371.32	-73547.	4.2685
950.00	57.156	2.63491E+05	374.40	-92191.	5.0689
1000.0	57.266	2.66351E+05	377.34	-1.10985E+05	5.7971
1050.0	57.356	2.69217E+05	380.13	-1.29922E+05	6.4631
1100.0	57.430	2.72087E+05	382.80	-1.48996E+05	7.0751
1150.0	57.486	2.74960E+05	385.36	-1.68201E+05	7.6397
1200.0	57.529	2.77835E+05	387.80	-1.87530E+05	8.1628
1250.0	57.542	2.80712E+05	390.15	-2.06980E+05	8.6490
1300.0	57.564	2.83589E+05	392.41	-2.26544E+05	9.1024
1350.0	57.593	2.86468E+05	394.58	-2.46219E+05	9.5266
1400.0	57.628	2.89349E+05	396.68	-2.66001E+05	9.9244
1450.0	57.668	2.92231E+05	398.70	-2.85886E+05	10.298
1500.0	57.713	2.95116E+05	400.66	-3.05870E+05	10.651
1550.0	57.761	2.98003E+05	402.55	-3.25950E+05	10.984
1600.0	57.813	3.00892E+05	404.38	-3.46124E+05	11.300
1650.0	57.867	3.03784E+05	406.16	-3.66388E+05	11.599
1700.0	57.924	3.06679E+05	407.89	-3.86740E+05	11.883
1750.0	57.983	3.09576E+05	409.57	-4.07177E+05	12.153
1800.0	58.044	3.12477E+05	411.21	-4.27696E+05	12.411
1850.0	58.106	3.15381E+05	412.80	-4.48297E+05	12.657
1900.0	58.169	3.18288E+05	414.35	-4.68975E+05	12.893
1950.0	58.234	3.21198E+05	415.86	-4.89731E+05	13.118
2000.0	58.299	3.24111E+05	417.34	-5.10561E+05	13.334
2050.0	58.365	3.27028E+05	418.78	-5.31464E+05	13.542
2100.0	58.432	3.29947E+05	420.18	-5.52438E+05	13.741
2150.0	58.499	3.32871E+05	421.56	-5.73482E+05	13.932
2200.0	58.567	3.35797E+05	422.90	-5.94593E+05	14.117
2250.0	58.635	3.38727E+05	424.22	-6.15772E+05	14.295
2300.0	58.703	3.41661E+05	425.51	-6.37015E+05	14.467
2350.0	58.771	3.44598E+05	426.77	-6.58322E+05	14.632
2400.0	58.840	3.47538E+05	428.01	-6.79692E+05	14.793
2450.0	58.908	3.50482E+05	429.23	-7.01123E+05	14.948
2500.0	58.977	3.53429E+05	430.42	-7.22614E+05	15.098
2550.0	59.045	3.56379E+05	431.59	-7.44165E+05	15.243
2600.0	59.113	3.59333E+05	432.73	-7.65773E+05	15.384
2650.0	59.181	3.62291E+05	433.86	-7.87438E+05	15.521
2700.0	59.249	3.65251E+05	434.97	-8.09158E+05	15.654
2750.0	59.317	3.68216E+05	436.05	-8.30934E+05	15.783
2800.0	59.384	3.71183E+05	437.12	-8.52763E+05	15.908
2850.0	59.452	3.74154E+05	438.18	-8.74646E+05	16.030
2900.0	59.518	3.77128E+05	439.21	-8.96581E+05	16.149
2950.0	59.585	3.80106E+05	440.23	-9.18567E+05	16.264
3000.0	59.651	3.83087E+05	441.23	-9.40603E+05	16.377

B20<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	47.236	1.71606E+05	226.24	1.04153E+05	-18.247
300.00	47.312	1.71693E+05	226.53	1.03734E+05	-18.061
350.00	49.188	1.74107E+05	233.97	92218.	-13.762
400.00	50.787	1.76608E+05	240.64	80350.	-10.492
450.00	52.182	1.79183E+05	246.71	68164.	-7.9120
500.00	53.407	1.81823E+05	252.27	55687.	-5.8175
550.00	54.485	1.84521E+05	257.41	42943.	-4.0783
600.00	55.428	1.87269E+05	262.20	29952.	-2.6075
650.00	56.243	1.90062E+05	266.67	16729.	-1.3443
700.00	56.934	1.92892E+05	270.86	3289.9	-0.24549
750.00	57.569	1.95755E+05	274.81	-10353.	0.72102
800.00	58.093	1.98647E+05	278.54	-24188.	1.5792
850.00	58.529	2.01562E+05	282.08	-38204.	2.3477
900.00	58.898	2.04498E+05	285.43	-52392.	3.0407
950.00	59.212	2.07451E+05	288.63	-66745.	3.6698
1000.0	59.483	2.10419E+05	291.67	-81253.	4.2441
1050.0	59.718	2.13399E+05	294.58	-95909.	4.7711
1100.0	59.923	2.16390E+05	297.36	-1.10708E+05	5.2570
1150.0	60.104	2.19391E+05	300.03	-1.25644E+05	5.7068
1200.0	60.265	2.22400E+05	302.59	-1.40710E+05	6.1248
1250.0	60.408	2.25417E+05	305.05	-1.55901E+05	6.5146
1300.0	60.537	2.28441E+05	307.43	-1.71214E+05	6.8793
1350.0	60.653	2.31471E+05	309.71	-1.86642E+05	7.2214
1400.0	60.758	2.34506E+05	311.92	-2.02184E+05	7.5434
1450.0	60.854	2.37546E+05	314.05	-2.17833E+05	7.8470
1500.0	60.941	2.40591E+05	316.12	-2.33588E+05	8.1341
1550.0	61.021	2.43640E+05	318.12	-2.49444E+05	8.4060
1600.0	61.095	2.46693E+05	320.06	-2.65399E+05	8.6642
1650.0	61.163	2.49750E+05	321.94	-2.81449E+05	8.9097
1700.0	61.226	2.52809E+05	323.77	-2.97592E+05	9.1437
1750.0	61.284	2.55872E+05	325.54	-3.13825E+05	9.3669
1800.0	61.339	2.58938E+05	327.27	-3.30145E+05	9.5803
1850.0	61.389	2.62006E+05	328.95	-3.46551E+05	9.7846
1900.0	61.437	2.65077E+05	330.59	-3.63039E+05	9.9804
1950.0	61.481	2.68150E+05	332.18	-3.79609E+05	10.168
2000.0	61.523	2.71225E+05	333.74	-3.96257E+05	10.349
2050.0	61.562	2.74302E+05	335.26	-4.12982E+05	10.523
2100.0	61.599	2.77381E+05	336.74	-4.29783E+05	10.690
2150.0	61.634	2.80462E+05	338.19	-4.46656E+05	10.851
2200.0	61.667	2.83544E+05	339.61	-4.63601E+05	11.007
2250.0	61.698	2.86628E+05	341.00	-4.80617E+05	11.157
2300.0	61.728	2.89714E+05	342.35	-4.97701E+05	11.303
2350.0	61.756	2.92801E+05	343.68	-5.14852E+05	11.444
2400.0	61.782	2.95890E+05	344.98	-5.32068E+05	11.580
2450.0	61.807	2.98979E+05	346.26	-5.49350E+05	11.712
2500.0	61.831	3.02070E+05	347.51	-5.66694E+05	11.840
2550.0	61.854	3.05162E+05	348.73	-5.84100E+05	11.964
2600.0	61.875	3.08256E+05	349.93	-6.01566E+05	12.085
2650.0	61.896	3.11350E+05	351.11	-6.19092E+05	12.203
2700.0	61.915	3.14445E+05	352.27	-6.36677E+05	12.317
2750.0	61.934	3.17541E+05	353.40	-6.54319E+05	12.428
2800.0	61.951	3.20639E+05	354.52	-6.72017E+05	12.536
2850.0	61.968	3.23737E+05	355.62	-6.89771E+05	12.642
2900.0	61.984	3.26835E+05	356.69	-7.07578E+05	12.745
2950.0	61.999	3.29935E+05	357.75	-7.25440E+05	12.845
3000.0	62.013	3.33035E+05	358.80	-7.43354E+05	12.943

BO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.201	9813.0	203.47	-50850.	8.9085
300.00	29.199	9867.0	203.65	-51227.	8.9191
350.00	29.290	11328.	208.15	-61524.	9.1818
400.00	29.548	12799.	212.08	-72032.	9.4062
450.00	29.891	14285.	215.58	-82725.	9.6022
500.00	30.278	15789.	218.75	-93584.	9.7764
550.00	30.685	17313.	221.65	-1.04595E+05	9.9334
600.00	31.097	18857.	224.34	-1.15746E+05	10.076
650.00	31.505	20422.	226.84	-1.27026E+05	10.208
700.00	31.903	22007.	229.19	-1.38428E+05	10.329
750.00	32.288	23612.	231.41	-1.49943E+05	10.443
800.00	32.655	25236.	233.50	-1.61566E+05	10.549
850.00	33.005	26878.	235.49	-1.73292E+05	10.649
900.00	33.334	28536.	237.39	-1.85114E+05	10.743
950.00	33.641	30211.	239.20	-1.97029E+05	10.833
1000.0	33.927	31900.	240.93	-2.09033E+05	10.918
1050.0	34.190	33603.	242.59	-2.21121E+05	11.000
1100.0	34.429	35318.	244.19	-2.33291E+05	11.078
1150.0	34.645	37045.	245.73	-2.45539E+05	11.152
1200.0	34.836	38783.	247.20	-2.57863E+05	11.224
1250.0	35.045	40530.	248.63	-2.70259E+05	11.293
1300.0	35.231	42287.	250.01	-2.82725E+05	11.360
1350.0	35.398	44052.	251.34	-2.95259E+05	11.424
1400.0	35.548	45826.	252.63	-3.07858E+05	11.486
1450.0	35.684	47607.	253.88	-3.20521E+05	11.546
1500.0	35.807	49394.	255.09	-3.33246E+05	11.604
1550.0	35.920	51188.	256.27	-3.46030E+05	11.661
1600.0	36.024	52986.	257.41	-3.58872E+05	11.716
1650.0	36.119	54790.	258.52	-3.71771E+05	11.769
1700.0	36.207	56598.	259.60	-3.84724E+05	11.821
1750.0	36.289	58410.	260.65	-3.97730E+05	11.871
1800.0	36.366	60227.	261.68	-4.10789E+05	11.920
1850.0	36.437	62047.	262.67	-4.23897E+05	11.968
1900.0	36.505	63870.	263.65	-4.37056E+05	12.015
1950.0	36.568	65697.	264.59	-4.50262E+05	12.061
2000.0	36.628	67527.	265.52	-4.63515E+05	12.105
2050.0	36.685	69360.	266.43	-4.76813E+05	12.149
2100.0	36.740	71196.	267.31	-4.90157E+05	12.192
2150.0	36.792	73034.	268.18	-5.03544E+05	12.233
2200.0	36.842	74875.	269.02	-5.16974E+05	12.274
2250.0	36.890	76718.	269.85	-5.30446E+05	12.314
2300.0	36.936	78564.	270.66	-5.43959E+05	12.353
2350.0	36.981	80412.	271.46	-5.57512E+05	12.392
2400.0	37.025	82262.	272.24	-5.71104E+05	12.429
2450.0	37.068	84114.	273.00	-5.84735E+05	12.466
2500.0	37.109	85969.	273.75	-5.98404E+05	12.503
2550.0	37.150	87825.	274.48	-6.12110E+05	12.538
2600.0	37.189	89684.	275.21	-6.25852E+05	12.573
2650.0	37.229	91544.	275.91	-6.39630E+05	12.608
2700.0	37.267	93406.	276.61	-6.53444E+05	12.641
2750.0	37.305	95271.	277.30	-6.67291E+05	12.674
2800.0	37.343	97137.	277.97	-6.81173E+05	12.707
2850.0	37.380	99005.	278.63	-6.95088E+05	12.739
2900.0	37.417	1.00875E+05	279.28	-7.09036E+05	12.771
2950.0	37.454	1.02747E+05	279.92	-7.23016E+05	12.802
3000.0	37.490	1.04620E+05	280.55	-7.37027E+05	12.832

(BO) 2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.266	-4.57728E+05	249.66	-5.32165E+05	93.231
300.00	60.366	-4.57616E+05	250.04	-5.32627E+05	92.736
350.00	62.779	-4.54536E+05	259.53	-5.45371E+05	81.390
400.00	64.775	-4.51345E+05	268.05	-5.58564E+05	72.939
450.00	66.505	-4.48062E+05	275.78	-5.72163E+05	66.413
500.00	68.049	-4.44698E+05	282.87	-5.86131E+05	61.231
550.00	69.452	-4.41260E+05	289.42	-6.00440E+05	57.024
600.00	70.740	-4.37755E+05	295.52	-6.15065E+05	53.545
650.00	71.932	-4.34188E+05	301.23	-6.29986E+05	50.625
700.00	73.038	-4.30563E+05	306.60	-6.45183E+05	48.143
750.00	74.066	-4.26885E+05	311.67	-6.60641E+05	46.010
800.00	75.021	-4.23158E+05	316.49	-6.76346E+05	44.160
850.00	75.908	-4.19384E+05	321.06	-6.92285E+05	42.542
900.00	76.728	-4.15568E+05	325.42	-7.08448E+05	41.116
950.00	77.484	-4.11712E+05	329.59	-7.24824E+05	39.853
1000.0	78.178	-4.07821E+05	333.58	-7.41404E+05	38.726
1050.0	78.810	-4.03896E+05	337.41	-7.58180E+05	37.716
1100.0	79.382	-3.99940E+05	341.09	-7.75143E+05	36.808
1150.0	79.895	-3.95958E+05	344.63	-7.92287E+05	35.986
1200.0	80.345	-3.91952E+05	348.04	-8.09604E+05	35.240
1250.0	80.821	-3.87923E+05	351.33	-8.27089E+05	34.561
1300.0	81.246	-3.83871E+05	354.51	-8.44736E+05	33.941
1350.0	81.627	-3.79799E+05	357.59	-8.62539E+05	33.373
1400.0	81.971	-3.75709E+05	360.56	-8.80493E+05	32.851
1450.0	82.282	-3.71602E+05	363.44	-8.98593E+05	32.370
1500.0	82.564	-3.67481E+05	366.24	-9.16835E+05	31.926
1550.0	82.822	-3.63346E+05	368.95	-9.35215E+05	31.516
1600.0	83.057	-3.59199E+05	371.58	-9.53729E+05	31.135
1650.0	83.274	-3.55041E+05	374.14	-9.72372E+05	30.782
1700.0	83.473	-3.50872E+05	376.63	-9.91142E+05	30.453
1750.0	83.657	-3.46694E+05	379.05	-1.01003E+06	30.147
1800.0	83.827	-3.42507E+05	381.41	-1.02905E+06	29.861
1850.0	83.986	-3.38311E+05	383.71	-1.04817E+06	29.594
1900.0	84.133	-3.34108E+05	385.95	-1.06742E+06	29.345
1950.0	84.271	-3.29898E+05	388.14	-1.08677E+06	29.111
2000.0	84.400	-3.25681E+05	390.27	-1.10623E+06	28.891
2050.0	84.520	-3.21458E+05	392.36	-1.12579E+06	28.685
2100.0	84.634	-3.17229E+05	394.40	-1.14546E+06	28.491
2150.0	84.740	-3.12995E+05	396.39	-1.16523E+06	28.309
2200.0	84.841	-3.08755E+05	398.34	-1.18510E+06	28.137
2250.0	84.935	-3.04511E+05	400.25	-1.20507E+06	27.975
2300.0	85.025	-3.00262E+05	402.11	-1.22513E+06	27.823
2350.0	85.110	-2.96009E+05	403.94	-1.24528E+06	27.679
2400.0	85.190	-2.91751E+05	405.74	-1.26552E+06	27.543
2450.0	85.267	-2.87490E+05	407.49	-1.28585E+06	27.414
2500.0	85.340	-2.83224E+05	409.22	-1.30627E+06	27.292
2550.0	85.409	-2.78956E+05	410.91	-1.32677E+06	27.177
2600.0	85.475	-2.74684E+05	412.57	-1.34736E+06	27.068
2650.0	85.537	-2.70408E+05	414.20	-1.36803E+06	26.965
2700.0	85.598	-2.66130E+05	415.80	-1.38878E+06	26.867
2750.0	85.655	-2.61849E+05	417.37	-1.40961E+06	26.774
2800.0	85.710	-2.57564E+05	418.91	-1.43051E+06	26.686
2850.0	85.762	-2.53278E+05	420.43	-1.45150E+06	26.602
2900.0	85.813	-2.48988E+05	421.92	-1.47256E+06	26.523
2950.0	85.861	-2.44696E+05	423.39	-1.49369E+06	26.448
3000.0	85.907	-2.40402E+05	424.83	-1.51490E+06	26.376

B2O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.761	-1.27350E+06	53.970	-1.28959E+06	225.93
300.00	63.135	-1.27338E+06	54.359	-1.28969E+06	224.55
350.00	71.779	-1.27000E+06	64.773	-1.29267E+06	192.92
400.00	78.524	-1.26624E+06	74.814	-1.29616E+06	169.26
450.00	84.164	-1.26217E+06	84.396	-1.30014E+06	150.91
500.00	89.119	-1.25783E+06	93.525	-1.30459E+06	136.29
550.00	93.625	-1.25326E+06	102.23	-1.30949E+06	124.36
600.00	97.827	-1.24847E+06	110.56	-1.31481E+06	114.46
650.00	101.81	-1.24348E+06	118.55	-1.32054E+06	106.12
700.00	105.64	-1.23830E+06	126.24	-1.32666E+06	98.994
723.00	107.37	-1.23585E+06	129.68	-1.32960E+06	96.058
723.00	133.05	-1.21129E+06	163.65	-1.32960E+06	96.058
750.00	132.63	-1.20770E+06	168.52	-1.33409E+06	92.912
800.00	131.95	-1.20109E+06	177.06	-1.34273E+06	87.669
850.00	131.39	-1.19450E+06	185.04	-1.35179E+06	83.069
900.00	130.92	-1.18795E+06	192.53	-1.36123E+06	79.002
950.00	130.52	-1.18141E+06	199.60	-1.37103E+06	75.383
1000.0	130.18	-1.17489E+06	206.29	-1.38118E+06	72.144
1050.0	129.89	-1.16839E+06	212.63	-1.39166E+06	69.229
1100.0	129.64	-1.16190E+06	218.67	-1.40244E+06	66.595
1150.0	129.42	-1.15543E+06	224.43	-1.41352E+06	64.202
1200.0	129.23	-1.14896E+06	229.93	-1.42488E+06	62.022
1250.0	129.06	-1.14250E+06	235.20	-1.43651E+06	60.027
1300.0	128.90	-1.13605E+06	240.26	-1.44839E+06	58.196
1350.0	128.77	-1.12961E+06	245.12	-1.46053E+06	56.510
1400.0	128.65	-1.12318E+06	249.80	-1.47290E+06	54.953
1450.0	128.54	-1.11675E+06	254.32	-1.48551E+06	53.512
1500.0	128.44	-1.11032E+06	258.67	-1.49833E+06	52.175
1550.0	128.35	-1.10390E+06	262.88	-1.51137E+06	50.932
1600.0	128.27	-1.09749E+06	266.96	-1.52462E+06	49.772
1650.0	128.20	-1.09108E+06	270.90	-1.53807E+06	48.690
1700.0	128.13	-1.08467E+06	274.73	-1.55171E+06	47.677
1750.0	128.07	-1.07826E+06	278.44	-1.56554E+06	46.728
1800.0	128.02	-1.07186E+06	282.05	-1.57955E+06	45.836
1850.0	127.96	-1.06546E+06	285.56	-1.59374E+06	44.998
1900.0	127.92	-1.05906E+06	288.97	-1.60810E+06	44.209
1950.0	127.87	-1.05267E+06	292.29	-1.62264E+06	43.464
2000.0	127.83	-1.04628E+06	295.53	-1.63733E+06	42.762
2050.0	127.79	-1.03989E+06	298.68	-1.65219E+06	42.097
2100.0	127.76	-1.03350E+06	301.76	-1.66720E+06	41.468
2150.0	127.73	-1.02711E+06	304.77	-1.68236E+06	40.872
2200.0	127.70	-1.02072E+06	307.70	-1.69767E+06	40.307
2250.0	127.67	-1.01434E+06	310.57	-1.71313E+06	39.770
2300.0	127.64	-1.00796E+06	313.38	-1.72873E+06	39.260
2350.0	127.62	-1.00158E+06	316.12	-1.74447E+06	38.774
2400.0	127.59	-9.95196E+05	318.81	-1.76034E+06	38.312
2450.0	127.57	-9.88817E+05	321.44	-1.77635E+06	37.871
2500.0	127.55	-9.82439E+05	324.02	-1.79248E+06	37.451
2550.0	127.53	-9.76062E+05	326.54	-1.80875E+06	37.050
2600.0	127.51	-9.69686E+05	329.02	-1.82514E+06	36.667
2650.0	127.49	-9.63311E+05	331.45	-1.84165E+06	36.300
2700.0	127.48	-9.56937E+05	333.83	-1.85828E+06	35.950
2750.0	127.46	-9.50563E+05	336.17	-1.87503E+06	35.614
2800.0	127.45	-9.44191E+05	338.47	-1.89190E+06	35.293
2850.0	127.43	-9.37819E+05	340.72	-1.90888E+06	34.985
2900.0	127.42	-9.31447E+05	342.94	-1.92597E+06	34.690
2950.0	127.41	-9.25077E+05	345.12	-1.94317E+06	34.406
3000.0	127.40	-9.18707E+05	347.26	-1.96048E+06	34.134

BO2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	43.266	-3.09130E+05	230.13	-3.77742E+05	66.177
300.00	43.356	-3.09050E+05	230.39	-3.78168E+05	65.843
350.00	45.571	-3.06825E+05	237.25	-3.89862E+05	58.182
400.00	47.484	-3.04498E+05	243.46	-4.01883E+05	52.479
450.00	49.169	-3.02081E+05	249.15	-4.14200E+05	48.078
500.00	50.665	-2.99584E+05	254.41	-4.26791E+05	44.585
550.00	51.993	-2.97017E+05	259.31	-4.39635E+05	41.752
600.00	53.168	-2.94387E+05	263.88	-4.52716E+05	39.411
650.00	54.197	-2.91703E+05	268.18	-4.66019E+05	37.449
700.00	55.084	-2.88970E+05	272.23	-4.79530E+05	35.782
750.00	55.900	-2.86195E+05	276.06	-4.93238E+05	34.351
800.00	56.580	-2.83382E+05	279.69	-5.07132E+05	33.112
850.00	57.154	-2.80538E+05	283.14	-5.21204E+05	32.028
900.00	57.645	-2.77668E+05	286.42	-5.35443E+05	31.076
950.00	58.069	-2.74775E+05	289.55	-5.49843E+05	30.232
1000.0	58.440	-2.71862E+05	292.53	-5.64395E+05	29.480
1050.0	58.767	-2.68932E+05	295.39	-5.79094E+05	28.808
1100.0	59.057	-2.65986E+05	298.13	-5.93933E+05	28.203
1150.0	59.317	-2.63027E+05	300.76	-6.08906E+05	27.657
1200.0	59.551	-2.60055E+05	303.29	-6.24007E+05	27.162
1250.0	59.764	-2.57072E+05	305.73	-6.39233E+05	26.711
1300.0	59.958	-2.54079E+05	308.08	-6.54579E+05	26.301
1350.0	60.136	-2.51076E+05	310.34	-6.70040E+05	25.925
1400.0	60.300	-2.48065E+05	312.53	-6.85612E+05	25.580
1450.0	60.452	-2.45046E+05	314.65	-7.01292E+05	25.263
1500.0	60.592	-2.42020E+05	316.70	-7.17076E+05	24.970
1550.0	60.723	-2.38987E+05	318.69	-7.32961E+05	24.700
1600.0	60.846	-2.35948E+05	320.62	-7.48944E+05	24.450
1650.0	60.961	-2.32903E+05	322.50	-7.65023E+05	24.218
1700.0	61.069	-2.29852E+05	324.32	-7.81193E+05	24.003
1750.0	61.170	-2.26796E+05	326.09	-7.97453E+05	23.802
1800.0	61.266	-2.23735E+05	327.81	-8.13801E+05	23.615
1850.0	61.357	-2.20670E+05	329.49	-8.30234E+05	23.441
1900.0	61.443	-2.17600E+05	331.13	-8.46750E+05	23.278
1950.0	61.524	-2.14525E+05	332.73	-8.63347E+05	23.126
2000.0	61.601	-2.11447E+05	334.29	-8.80022E+05	22.983
2050.0	61.674	-2.08365E+05	335.81	-8.96775E+05	22.850
2100.0	61.744	-2.05280E+05	337.30	-9.13603E+05	22.724
2150.0	61.810	-2.02191E+05	338.75	-9.30504E+05	22.606
2200.0	61.873	-1.99099E+05	340.17	-9.47477E+05	22.495
2250.0	61.934	-1.96004E+05	341.56	-9.64521E+05	22.391
2300.0	61.991	-1.92906E+05	342.92	-9.81633E+05	22.293
2350.0	62.045	-1.89805E+05	344.26	-9.98813E+05	22.201
2400.0	62.097	-1.86701E+05	345.57	-1.01606E+06	22.113
2450.0	62.147	-1.83595E+05	346.85	-1.03337E+06	22.031
2500.0	62.194	-1.80486E+05	348.10	-1.05074E+06	21.954
2550.0	62.239	-1.77376E+05	349.33	-1.06818E+06	21.880
2600.0	62.281	-1.74263E+05	350.54	-1.08568E+06	21.811
2650.0	62.322	-1.71148E+05	351.73	-1.10323E+06	21.745
2700.0	62.360	-1.68030E+05	352.90	-1.12085E+06	21.684
2750.0	62.397	-1.64912E+05	354.04	-1.13852E+06	21.625
2800.0	62.435	-1.61791E+05	355.16	-1.15625E+06	21.570
2850.0	62.459	-1.58669E+05	356.27	-1.17404E+06	21.517
2900.0	62.486	-1.55545E+05	357.36	-1.19188E+06	21.468
2950.0	62.517	-1.52420E+05	358.42	-1.20977E+06	21.420
3000.0	62.551	-1.49293E+05	359.48	-1.22772E+06	21.376

HBO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.706	-8.04600E+05	49.000	-8.19209E+05	143.52
300.00	54.814	-8.04499E+05	49.339	-8.19300E+05	142.65
350.00	57.742	-8.01685E+05	58.008	-8.21988E+05	122.67
400.00	60.672	-7.98724E+05	65.910	-8.25088E+05	107.74
450.00	63.602	-7.95618E+05	73.225	-8.28569E+05	96.175
500.00	66.530	-7.92364E+05	80.078	-8.32403E+05	86.958
509.00	67.057	-7.91763E+05	81.269	-8.33129E+05	85.495
509.00	105.00	-7.77463E+05	109.36	-8.33129E+05	85.495
550.00	105.00	-7.73158E+05	117.50	-8.37782E+05	79.564
600.00	105.00	-7.67908E+05	126.63	-8.43889E+05	73.465
650.00	105.00	-7.62658E+05	135.04	-8.50433E+05	68.340
700.00	105.00	-7.57408E+05	142.82	-8.57382E+05	63.977
750.00	105.00	-7.52158E+05	150.06	-8.64706E+05	60.222
800.00	105.00	-7.46908E+05	156.84	-8.72381E+05	56.959
850.00	105.00	-7.41658E+05	163.21	-8.80384E+05	54.100
900.00	105.00	-7.36408E+05	169.21	-8.88695E+05	51.577
950.00	105.00	-7.31158E+05	174.89	-8.97299E+05	49.336
1000.0	105.00	-7.25908E+05	180.27	-9.06179E+05	47.333
1050.0	105.00	-7.20658E+05	185.39	-9.15322E+05	45.534
1100.0	105.00	-7.15408E+05	190.28	-9.24715E+05	43.910
1150.0	105.00	-7.10158E+05	194.95	-9.34346E+05	42.438
1200.0	105.00	-7.04908E+05	199.41	-9.44206E+05	41.099
1250.0	105.00	-6.99658E+05	203.70	-9.54284E+05	39.876
1300.0	105.00	-6.94408E+05	207.82	-9.64573E+05	38.756
1350.0	105.00	-6.89158E+05	211.78	-9.75064E+05	37.727
1400.0	105.00	-6.83908E+05	215.60	-9.85749E+05	36.778
1450.0	105.00	-6.78658E+05	219.29	-9.96622E+05	35.901
1500.0	105.00	-6.73408E+05	222.84	-1.00768E+06	35.089

H3BO3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	70.022	-1.00436E+06	268.23	-1.08433E+06	189.97
300.00	70.365	-1.00423E+06	268.66	-1.08483E+06	188.88
350.00	78.676	-1.00050E+06	280.15	-1.09855E+06	163.95
400.00	85.591	-9.96386E+05	291.12	-1.11283E+06	145.32
450.00	91.520	-9.91954E+05	301.55	-1.12765E+06	130.89
500.00	96.678	-9.87246E+05	311.47	-1.14298E+06	119.40
550.00	101.19	-9.82297E+05	320.90	-1.15879E+06	110.05
600.00	105.12	-9.77137E+05	329.88	-1.17506E+06	102.30
650.00	108.58	-9.71793E+05	338.43	-1.19177E+06	95.770
700.00	111.58	-9.66287E+05	346.59	-1.20890E+06	90.207
750.00	114.23	-9.60641E+05	354.38	-1.22643E+06	85.414
800.00	116.61	-9.54868E+05	361.83	-1.24433E+06	81.245
850.00	118.78	-9.48983E+05	368.97	-1.26260E+06	77.588
900.00	120.76	-9.42993E+05	375.81	-1.28122E+06	74.358
950.00	122.60	-9.36909E+05	382.39	-1.30018E+06	71.487
1000.0	124.31	-9.30735E+05	388.72	-1.31946E+06	68.920
1050.0	125.91	-9.24479E+05	394.83	-1.33905E+06	66.612
1100.0	127.41	-9.18146E+05	400.72	-1.35894E+06	64.529
1150.0	128.83	-9.11739E+05	406.42	-1.37912E+06	62.640
1200.0	130.17	-9.05264E+05	411.93	-1.39958E+06	60.920
1250.0	131.44	-8.98724E+05	417.27	-1.42031E+06	59.350
1300.0	132.64	-8.92121E+05	422.45	-1.44130E+06	57.911
1350.0	133.78	-8.85461E+05	427.47	-1.46255E+06	56.588
1400.0	134.86	-8.78744E+05	432.36	-1.48405E+06	55.369
1450.0	135.89	-8.71975E+05	437.11	-1.50578E+06	54.243
1500.0	136.87	-8.65156E+05	441.73	-1.52775E+06	53.200
1550.0	137.80	-8.58289E+05	446.24	-1.54995E+06	52.232
1600.0	138.68	-8.51377E+05	450.62	-1.57238E+06	51.332
1650.0	139.51	-8.44422E+05	454.90	-1.59502E+06	50.493
1700.0	140.29	-8.37427E+05	459.08	-1.61787E+06	49.710
1750.0	141.04	-8.30393E+05	463.16	-1.64092E+06	48.978
1800.0	141.74	-8.23324E+05	467.14	-1.66418E+06	48.292
1850.0	142.39	-8.16221E+05	471.03	-1.68763E+06	47.649
1900.0	143.01	-8.09085E+05	474.84	-1.71128E+06	47.045
1950.0	143.58	-8.01920E+05	478.56	-1.73512E+06	46.477
2000.0	144.12	-7.94728E+05	482.20	-1.75914E+06	45.943
2050.0	144.61	-7.87509E+05	485.77	-1.78334E+06	45.439
2100.0	145.07	-7.80267E+05	489.26	-1.80771E+06	44.963
2150.0	145.56	-7.73001E+05	492.68	-1.83226E+06	44.514
2200.0	146.03	-7.65711E+05	496.03	-1.85698E+06	44.089
2250.0	146.46	-7.58399E+05	499.32	-1.88186E+06	43.687
2300.0	146.88	-7.51065E+05	502.54	-1.90691E+06	43.306
2350.0	147.27	-7.43712E+05	505.70	-1.93212E+06	42.945
2400.0	147.64	-7.36339E+05	508.81	-1.95748E+06	42.602
2450.0	147.99	-7.28948E+05	511.86	-1.98300E+06	42.277
2500.0	148.32	-7.21540E+05	514.85	-2.00866E+06	41.968
2550.0	148.63	-7.14117E+05	517.79	-2.03448E+06	41.674
2600.0	148.93	-7.06677E+05	520.68	-2.06044E+06	41.394
2650.0	149.22	-6.99224E+05	523.52	-2.08655E+06	41.127
2700.0	149.49	-6.91756E+05	526.31	-2.11279E+06	40.873
2750.0	149.75	-6.84275E+05	529.06	-2.13918E+06	40.631
2800.0	150.00	-6.76781E+05	531.76	-2.16570E+06	40.401
2850.0	150.24	-6.69275E+05	534.41	-2.19235E+06	40.180
2900.0	150.46	-6.61758E+05	537.03	-2.21914E+06	39.970
2950.0	150.68	-6.54229E+05	539.60	-2.24605E+06	39.769
3000.0	150.89	-6.46690E+05	542.14	-2.27310E+06	39.577

(BOH) 3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.596	-1.20379E+06	286.15	-1.28910E+06	225.84
300.00	81.029	-1.20364E+06	286.65	-1.28963E+06	224.54
350.00	92.195	-1.19930E+06	299.99	-1.30430E+06	194.65
400.00	102.43	-1.19443E+06	312.98	-1.31962E+06	172.32
450.00	111.80	-1.18907E+06	325.59	-1.33559E+06	155.03
500.00	120.34	-1.18327E+06	337.82	-1.35218E+06	141.26
550.00	128.07	-1.17705E+06	349.66	-1.36936E+06	130.05
600.00	135.01	-1.17047E+06	361.11	-1.38713E+06	120.76
650.00	141.24	-1.16356E+06	372.16	-1.40547E+06	112.94
700.00	146.68	-1.15636E+06	382.83	-1.42434E+06	106.28
750.00	151.50	-1.14890E+06	393.12	-1.44374E+06	100.55
800.00	155.81	-1.14122E+06	403.04	-1.46365E+06	95.564
850.00	159.69	-1.13333E+06	412.60	-1.48404E+06	91.196
900.00	163.22	-1.12526E+06	421.83	-1.50491E+06	87.340
950.00	166.42	-1.11701E+06	430.74	-1.52622E+06	83.915
1000.0	169.33	-1.10862E+06	439.36	-1.54797E+06	80.856
1050.0	171.99	-1.10009E+06	447.68	-1.57015E+06	78.109
1100.0	174.41	-1.09142E+06	455.74	-1.59274E+06	75.631
1150.0	176.60	-1.08265E+06	463.54	-1.61572E+06	73.387
1200.0	178.58	-1.07377E+06	471.10	-1.63909E+06	71.346
1250.0	180.48	-1.06479E+06	478.43	-1.66283E+06	69.484
1300.0	182.19	-1.05572E+06	485.54	-1.68693E+06	67.780
1350.0	183.74	-1.04657E+06	492.45	-1.71138E+06	66.216
1400.0	185.14	-1.03735E+06	499.16	-1.73617E+06	64.776
1450.0	186.42	-1.02806E+06	505.67	-1.76129E+06	63.447
1500.0	187.59	-1.01871E+06	512.01	-1.78673E+06	62.218
1550.0	188.66	-1.00930E+06	518.18	-1.81249E+06	61.079
1600.0	189.65	-9.99846E+05	524.19	-1.83855E+06	60.021
1650.0	190.57	-9.90341E+05	530.04	-1.86491E+06	59.036
1700.0	191.42	-9.80791E+05	535.74	-1.89155E+06	58.119
1750.0	192.20	-9.71200E+05	541.30	-1.91848E+06	57.262
1800.0	192.94	-9.61571E+05	546.73	-1.94568E+06	56.461
1850.0	193.63	-9.51907E+05	552.02	-1.97315E+06	55.710
1900.0	194.27	-9.42209E+05	557.19	-2.00088E+06	55.007
1950.0	194.87	-9.32481E+05	562.25	-2.02887E+06	54.346
2000.0	195.44	-9.22723E+05	567.19	-2.05710E+06	53.725
2050.0	195.97	-9.12937E+05	572.02	-2.08558E+06	53.140
2100.0	196.48	-9.03126E+05	576.75	-2.11430E+06	52.589
2150.0	196.95	-8.93290E+05	581.38	-2.14326E+06	52.069
2200.0	197.40	-8.83431E+05	585.91	-2.17244E+06	51.579
2250.0	197.82	-8.73551E+05	590.35	-2.20185E+06	51.115
2300.0	198.23	-8.63649E+05	594.71	-2.23147E+06	50.677
2350.0	198.61	-8.53729E+05	598.97	-2.26131E+06	50.262
2400.0	198.97	-8.43789E+05	603.16	-2.29137E+06	49.869
2450.0	199.31	-8.33832E+05	607.26	-2.32163E+06	49.496
2500.0	199.64	-8.23858E+05	611.29	-2.35209E+06	49.143
2550.0	199.95	-8.13868E+05	615.25	-2.38276E+06	48.808
2600.0	200.24	-8.03864E+05	619.14	-2.41362E+06	48.489
2650.0	200.52	-7.93844E+05	622.95	-2.44467E+06	48.186
2700.0	200.79	-7.83812E+05	626.70	-2.47591E+06	47.898
2750.0	201.04	-7.73766E+05	630.39	-2.50734E+06	47.624
2800.0	201.28	-7.63708E+05	634.02	-2.53895E+06	47.363
2850.0	201.51	-7.53638E+05	637.58	-2.57074E+06	47.115
2900.0	201.73	-7.43557E+05	641.09	-2.60271E+06	46.879
2950.0	201.93	-7.33465E+05	644.54	-2.63485E+06	46.653
3000.0	202.13	-7.23364E+05	647.93	-2.66716E+06	46.438

BS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	30.044	2.62931E+05	216.19	1.98474E+05	-34.771
300.00	30.070	2.62987E+05	216.38	1.98074E+05	-34.487
350.00	30.763	2.64508E+05	221.06	1.87135E+05	-27.928
400.00	31.421	2.66062E+05	225.22	1.75976E+05	-22.980
450.00	32.038	2.67649E+05	228.95	1.64620E+05	-19.108
500.00	32.612	2.69265E+05	232.36	1.53086E+05	-15.992
550.00	33.140	2.70909E+05	235.49	1.41389E+05	-13.428
600.00	33.621	2.72579E+05	238.40	1.29541E+05	-11.277
650.00	34.054	2.74271E+05	241.10	1.17553E+05	-9.4464
700.00	34.440	2.75983E+05	243.64	1.05433E+05	-7.8673
750.00	34.777	2.77714E+05	246.03	93191.	-6.4902
800.00	35.063	2.79460E+05	248.28	80832.	-5.2777
850.00	35.348	2.81221E+05	250.42	68364.	-4.2011
900.00	35.587	2.82994E+05	252.45	55792.	-3.2380
950.00	35.788	2.84779E+05	254.38	43121.	-2.3709
1000.0	35.961	2.86573E+05	256.22	30356.	-1.5856
1050.0	36.110	2.88374E+05	257.97	17501.	-0.87060
1100.0	36.241	2.90183E+05	259.66	4559.9	-0.21652
1150.0	36.356	2.91998E+05	261.27	-8463.6	0.38442
1200.0	36.459	2.93819E+05	262.82	-21566.	0.93873
1250.0	36.552	2.95644E+05	264.31	-34745.	1.4519
1300.0	36.636	2.97474E+05	265.75	-47996.	1.9285
1350.0	36.714	2.99307E+05	267.13	-61318.	2.3725
1400.0	36.787	3.01145E+05	268.47	-74709.	2.7873
1450.0	36.854	3.02986E+05	269.76	-88164.	3.1759
1500.0	36.919	3.04830E+05	271.01	-1.01684E+05	3.5409
1550.0	36.980	3.06678E+05	272.22	-1.15265E+05	3.8843
1600.0	37.039	3.08528E+05	273.40	-1.28905E+05	4.2082
1650.0	37.097	3.10382E+05	274.54	-1.42604E+05	4.5143
1700.0	37.153	3.12238E+05	275.64	-1.56358E+05	4.8042
1750.0	37.208	3.14097E+05	276.72	-1.70168E+05	5.0791
1800.0	37.263	3.15959E+05	277.77	-1.84030E+05	5.3403
1850.0	37.317	3.17823E+05	278.79	-1.97944E+05	5.5888
1900.0	37.372	3.19691E+05	279.79	-2.11909E+05	5.8256
1950.0	37.426	3.21561E+05	280.76	-2.25923E+05	6.0516
2000.0	37.481	3.23433E+05	281.71	-2.39985E+05	6.2676
2050.0	37.537	3.25309E+05	282.64	-2.54094E+05	6.4742
2100.0	37.593	3.27187E+05	283.54	-2.68248E+05	6.6721
2150.0	37.651	3.29068E+05	284.43	-2.82447E+05	6.8619
2200.0	37.709	3.30952E+05	285.29	-2.96690E+05	7.0441
2250.0	37.768	3.32839E+05	286.14	-3.10976E+05	7.2193
2300.0	37.828	3.34729E+05	286.97	-3.25304E+05	7.3877
2350.0	37.890	3.36622E+05	287.78	-3.39673E+05	7.5499
2400.0	37.953	3.38518E+05	288.58	-3.54082E+05	7.7062
2450.0	38.017	3.40417E+05	289.37	-3.68531E+05	7.8570
2500.0	38.083	3.42320E+05	290.14	-3.83019E+05	8.0025
2550.0	38.150	3.44225E+05	290.89	-3.97544E+05	8.1432
2600.0	38.219	3.46135E+05	291.63	-4.12107E+05	8.2791
2650.0	38.289	3.48047E+05	292.36	-4.26707E+05	8.4107
2700.0	38.361	3.49964E+05	293.08	-4.41343E+05	8.5381
2750.0	38.435	3.51883E+05	293.78	-4.56015E+05	8.6615
2800.0	38.512	3.53807E+05	294.47	-4.70721E+05	8.7812
2850.0	38.583	3.55734E+05	295.16	-4.85462E+05	8.8973
2900.0	38.665	3.57666E+05	295.83	-5.00237E+05	9.0100
2950.0	38.757	3.59601E+05	296.49	-5.15045E+05	9.1195
3000.0	38.858	3.61541E+05	297.14	-5.29885E+05	9.2259

B2S3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.645	17738.	351.42	-87039.	15.249
300.00	82.773	17891.	351.94	-87690.	15.268
350.00	85.856	22109.	364.94	-1.05618E+05	15.762
400.00	88.422	26468.	376.57	-1.24161E+05	16.213
450.00	90.632	30946.	387.12	-1.43257E+05	16.628
500.00	92.570	35527.	396.77	-1.62858E+05	17.013
550.00	94.282	40199.	405.67	-1.82922E+05	17.372
600.00	95.799	44952.	413.94	-2.03415E+05	17.708
650.00	97.137	49776.	421.67	-2.24307E+05	18.025
700.00	98.309	54663.	428.91	-2.45573E+05	18.324
750.00	99.323	59604.	435.73	-2.67191E+05	18.608
800.00	100.18	64592.	442.16	-2.89140E+05	18.878
850.00	101.01	69623.	448.26	-3.11402E+05	19.136
900.00	101.70	74691.	454.06	-3.33961E+05	19.382
950.00	102.29	79791.	459.57	-3.56803E+05	19.618
1000.0	102.80	84919.	464.83	-3.79914E+05	19.844
1050.0	103.24	90070.	469.86	-4.03282E+05	20.062
1100.0	103.62	95242.	474.67	-4.26896E+05	20.271
1150.0	103.96	1.00431E+05	479.28	-4.50746E+05	20.473
1200.0	104.26	1.05637E+05	483.72	-4.74822E+05	20.668
1250.0	104.52	1.10856E+05	487.98	-4.99115E+05	20.856
1300.0	104.76	1.16088E+05	492.08	-5.23617E+05	21.039
1350.0	104.97	1.21332E+05	496.04	-5.48320E+05	21.215
1400.0	105.16	1.26585E+05	499.86	-5.73218E+05	21.386
1450.0	105.33	1.31847E+05	503.55	-5.98304E+05	21.553
1500.0	105.49	1.37118E+05	507.13	-6.23571E+05	21.714
1550.0	105.63	1.42396E+05	510.59	-6.49015E+05	21.871
1600.0	105.77	1.47681E+05	513.94	-6.74628E+05	22.024
1650.0	105.89	1.52972E+05	517.20	-7.00407E+05	22.172
1700.0	106.00	1.58270E+05	520.36	-7.26347E+05	22.317
1750.0	106.10	1.63572E+05	523.44	-7.52442E+05	22.459
1800.0	106.20	1.68880E+05	526.43	-7.78689E+05	22.596
1850.0	106.29	1.74192E+05	529.34	-8.05084E+05	22.731
1900.0	106.37	1.79508E+05	532.17	-8.31622E+05	22.862
1950.0	106.45	1.84829E+05	534.94	-8.58300E+05	22.991
2000.0	106.52	1.90153E+05	537.63	-8.85114E+05	23.116
2050.0	106.59	1.95481E+05	540.26	-9.12062E+05	23.239
2100.0	106.65	2.00812E+05	542.83	-9.39140E+05	23.359
2150.0	106.71	2.06146E+05	545.34	-9.66344E+05	23.477
2200.0	106.77	2.11483E+05	547.80	-9.93673E+05	23.592
2250.0	106.83	2.16823E+05	550.20	-1.02112E+06	23.705
2300.0	106.88	2.22166E+05	552.55	-1.04869E+06	23.816
2350.0	106.93	2.27511E+05	554.85	-1.07638E+06	23.925
2400.0	106.97	2.32859E+05	557.10	-1.10418E+06	24.031
2450.0	107.01	2.38208E+05	559.30	-1.13209E+06	24.136
2500.0	107.06	2.43560E+05	561.47	-1.16011E+06	24.238
2550.0	107.10	2.48914E+05	563.59	-1.18823E+06	24.339
2600.0	107.13	2.54270E+05	565.67	-1.21646E+06	24.438
2650.0	107.17	2.59627E+05	567.71	-1.24480E+06	24.536
2700.0	107.20	2.64986E+05	569.71	-1.27323E+06	24.632
2750.0	107.24	2.70347E+05	571.68	-1.30177E+06	24.726
2800.0	107.27	2.75710E+05	573.61	-1.33040E+06	24.818
2850.0	107.30	2.81074E+05	575.51	-1.35913E+06	24.909
2900.0	107.33	2.86440E+05	577.38	-1.38795E+06	24.999
2950.0	107.35	2.91807E+05	579.21	-1.41687E+06	25.087
3000.0	107.38	2.97175E+05	581.02	-1.44587E+06	25.174

BN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	19.705	-2.51000E+05	14.810	-2.55416E+05	44.747
300.00	19.880	-2.50963E+05	14.932	-2.55443E+05	44.475
350.00	23.912	-2.49864E+05	18.315	-2.56274E+05	38.246
400.00	27.007	-2.48588E+05	21.718	-2.57275E+05	33.596
450.00	29.531	-2.47172E+05	25.049	-2.58445E+05	29.999
500.00	31.677	-2.45641E+05	28.275	-2.59778E+05	27.138
550.00	33.554	-2.44009E+05	31.384	-2.61270E+05	24.813
600.00	35.228	-2.42289E+05	34.376	-2.62915E+05	22.888
650.00	36.741	-2.40489E+05	37.257	-2.64706E+05	21.271
700.00	38.119	-2.38617E+05	40.031	-2.66638E+05	19.896
750.00	39.382	-2.36679E+05	42.704	-2.68707E+05	18.714
800.00	40.543	-2.34680E+05	45.284	-2.70907E+05	17.688
850.00	41.610	-2.32626E+05	47.774	-2.73234E+05	16.790
900.00	42.590	-2.30521E+05	50.180	-2.75683E+05	16.000
950.00	43.488	-2.28369E+05	52.508	-2.78251E+05	15.299
1000.0	44.308	-2.26173E+05	54.759	-2.80933E+05	14.674
1050.0	45.054	-2.23939E+05	56.940	-2.83726E+05	14.114
1100.0	45.726	-2.21669E+05	59.051	-2.86626E+05	13.610
1150.0	46.328	-2.19368E+05	61.097	-2.89630E+05	13.155
1200.0	46.862	-2.17038E+05	63.081	-2.92734E+05	12.742
1250.0	47.236	-2.14685E+05	65.001	-2.95937E+05	12.366
1300.0	47.568	-2.12315E+05	66.861	-2.99233E+05	12.023
1350.0	47.864	-2.09929E+05	68.661	-3.02622E+05	11.709
1400.0	48.128	-2.07529E+05	70.407	-3.06099E+05	11.420
1450.0	48.366	-2.05116E+05	72.100	-3.09662E+05	11.155
1500.0	48.580	-2.02693E+05	73.743	-3.13308E+05	10.910
1550.0	48.774	-2.00259E+05	75.340	-3.17035E+05	10.684
1600.0	48.950	-1.97815E+05	76.891	-3.20841E+05	10.474
1650.0	49.110	-1.95364E+05	78.400	-3.24723E+05	10.280
1700.0	49.257	-1.92905E+05	79.868	-3.28680E+05	10.099
1750.0	49.391	-1.90438E+05	81.298	-3.32710E+05	9.9306
1800.0	49.514	-1.87966E+05	82.691	-3.36810E+05	9.7737
1850.0	49.627	-1.85487E+05	84.049	-3.40978E+05	9.6273
1900.0	49.731	-1.83003E+05	85.374	-3.45214E+05	9.4904
1950.0	49.827	-1.80514E+05	86.667	-3.49515E+05	9.3622
2000.0	49.917	-1.78021E+05	87.930	-3.53880E+05	9.2422
2050.0	50.000	-1.75523E+05	89.163	-3.58308E+05	9.1296
2100.0	50.076	-1.73021E+05	90.369	-3.62796E+05	9.0238
2150.0	50.148	-1.70515E+05	91.548	-3.67344E+05	8.9245
2200.0	50.215	-1.68006E+05	92.702	-3.71950E+05	8.8310
2250.0	50.277	-1.65494E+05	93.831	-3.76614E+05	8.7430
2300.0	50.336	-1.62978E+05	94.937	-3.81333E+05	8.6601
2350.0	50.390	-1.60460E+05	96.020	-3.86107E+05	8.5820
2400.0	50.442	-1.57939E+05	97.081	-3.90935E+05	8.5083
2450.0	50.490	-1.55416E+05	98.122	-3.95815E+05	8.4387
2500.0	50.535	-1.52890E+05	99.142	-4.00747E+05	8.3729
2550.0	50.578	-1.50363E+05	100.14	-4.05729E+05	8.3108
2600.0	50.618	-1.47833E+05	101.13	-4.10761E+05	8.2521
2650.0	50.656	-1.45301E+05	102.09	-4.15841E+05	8.1965
2700.0	50.692	-1.42767E+05	103.04	-4.20969E+05	8.1439
2750.0	50.726	-1.40232E+05	103.97	-4.26145E+05	8.0942
2800.0	50.758	-1.37695E+05	104.88	-4.31366E+05	8.0470
2850.0	50.789	-1.35156E+05	105.78	-4.36633E+05	8.0024
2900.0	50.818	-1.32616E+05	106.66	-4.41944E+05	7.9601
2950.0	50.845	-1.30074E+05	107.53	-4.47299E+05	7.9200
3000.0	50.871	-1.27531E+05	108.39	-4.52697E+05	7.8820

BP

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	30.324	-1.15478E+05	26.778	-1.23462E+05	21.630
300.00	30.376	-1.15422E+05	26.966	-1.23512E+05	21.505
350.00	31.777	-1.13868E+05	31.753	-1.24982E+05	18.652
400.00	33.179	-1.12245E+05	36.088	-1.26680E+05	16.542
450.00	34.581	-1.10551E+05	40.077	-1.28585E+05	14.925
500.00	35.982	-1.08786E+05	43.793	-1.30683E+05	13.652
550.00	37.384	-1.06952E+05	47.288	-1.32961E+05	12.627
600.00	38.786	-1.05048E+05	50.601	-1.35409E+05	11.788
650.00	40.187	-1.03074E+05	53.761	-1.38018E+05	11.091
700.00	41.589	-1.01029E+05	56.791	-1.40783E+05	10.505
750.00	42.991	-98915.	59.708	-1.43696E+05	10.008
800.00	44.392	-96730.	62.527	-1.46752E+05	9.5817
850.00	45.794	-94476.	65.260	-1.49947E+05	9.2144
900.00	47.196	-92151.	67.918	-1.53277E+05	8.8957
950.00	48.597	-89756.	70.507	-1.56738E+05	8.6178
1000.0	49.999	-87291.	73.035	-1.60326E+05	8.3744
1050.0	51.400	-84756.	75.509	-1.64040E+05	8.1603
1100.0	52.802	-82151.	77.932	-1.67876E+05	7.9716

B4C

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.090	-62000.	27.110	-70083.	12.278
300.00	53.766	-61901.	27.440	-70133.	12.211
350.00	68.271	-58823.	36.901	-71739.	10.706
400.00	77.871	-55155.	46.684	-73828.	9.6408
450.00	84.639	-51083.	56.268	-76404.	8.8685
500.00	89.671	-46719.	65.458	-79449.	8.2997
550.00	93.586	-42134.	74.196	-82942.	7.8770
600.00	96.758	-37373.	82.479	-86861.	7.5617
650.00	99.422	-32467.	90.332	-91183.	7.3273
700.00	101.73	-27437.	97.786	-95887.	7.1550
750.00	103.79	-22298.	104.88	-1.00955E+05	7.0310
800.00	105.68	-17060.	111.64	-1.06369E+05	6.9450
850.00	107.44	-11732.	118.10	-1.12114E+05	6.8895
900.00	109.12	-6317.4	124.29	-1.18174E+05	6.8585
950.00	110.74	-820.63	130.23	-1.24538E+05	6.8474
1000.0	112.33	4756.3	135.95	-1.31194E+05	6.8527
1050.0	113.90	10412.	141.47	-1.38130E+05	6.8714
1100.0	115.46	16146.	146.80	-1.45337E+05	6.9013
1150.0	117.02	21958.	151.97	-1.52807E+05	6.9405
1200.0	118.60	27848.	156.98	-1.60532E+05	6.9876
1250.0	120.20	33818.	161.86	-1.68503E+05	7.0412
1300.0	121.82	39868.	166.60	-1.76715E+05	7.1003
1350.0	123.47	46000.	171.23	-1.85162E+05	7.1641
1400.0	125.15	52215.	175.75	-1.93837E+05	7.2319
1450.0	126.86	58515.	180.17	-2.02735E+05	7.3031
1500.0	128.61	64902.	184.50	-2.11852E+05	7.3772
1550.0	130.40	71377.	188.75	-2.21184E+05	7.4537
1600.0	132.24	77943.	192.92	-2.30726E+05	7.5322
1650.0	134.11	84602.	197.02	-2.40475E+05	7.6126
1700.0	136.03	91355.	201.05	-2.50426E+05	7.6945
1750.0	137.99	98206.	205.02	-2.60578E+05	7.7776
1800.0	140.00	1.05155E+05	208.93	-2.70927E+05	7.8619
1850.0	142.06	1.12207E+05	212.80	-2.81471E+05	7.9471
1900.0	144.16	1.19362E+05	216.62	-2.92207E+05	8.0331
1950.0	146.31	1.26624E+05	220.39	-3.03132E+05	8.1198
2000.0	148.51	1.33994E+05	224.12	-3.14245E+05	8.2070
2050.0	150.76	1.41476E+05	227.81	-3.25543E+05	8.2947
2100.0	153.06	1.49071E+05	231.47	-3.37025E+05	8.3828
2150.0	155.41	1.56783E+05	235.10	-3.48690E+05	8.4713
2200.0	157.81	1.64613E+05	238.70	-3.60535E+05	8.5600
2250.0	160.25	1.72564E+05	242.28	-3.72560E+05	8.6489
2300.0	162.75	1.80639E+05	245.83	-3.84763E+05	8.7380
2350.0	165.30	1.88840E+05	249.35	-3.97142E+05	8.8273
2400.0	167.90	1.97170E+05	252.86	-4.09698E+05	8.9166
2450.0	170.56	2.05632E+05	256.35	-4.22428E+05	9.0061
2500.0	173.26	2.14227E+05	259.82	-4.35333E+05	9.0955
2550.0	176.02	2.22958E+05	263.28	-4.48410E+05	9.1851
2600.0	178.82	2.31829E+05	266.73	-4.61661E+05	9.2746
2650.0	181.68	2.40842E+05	270.16	-4.75083E+05	9.3642
2700.0	184.59	2.49998E+05	273.58	-4.88676E+05	9.4538

Ba

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	28.100	0.00000E+00	62.500	-18634.	3.2646
300.00	28.302	52.172	62.674	-18750.	3.2646
350.00	32.646	1583.9	67.388	-22002.	3.2835
400.00	35.531	3292.8	71.948	-25486.	3.3281
450.00	37.566	5122.9	76.257	-29193.	3.3885
500.00	39.073	7040.7	80.296	-33107.	3.4586
550.00	40.237	9024.6	84.077	-37218.	3.5346
600.00	41.165	11060.	87.619	-41511.	3.6138
650.00	41.929	13138.	90.945	-45976.	3.6946
700.00	42.572	15251.	94.077	-50603.	3.7759
750.00	43.127	17394.	97.033	-55381.	3.8570
800.00	43.614	19563.	99.833	-60303.	3.9373
850.00	44.049	21755.	102.49	-65362.	4.0165
900.00	44.443	23967.	105.02	-70550.	4.0945
950.00	44.805	26198.	107.43	-75862.	4.1711
1000.0	45.141	28447.	109.74	-81291.	4.2461
1000.0	40.796	35566.	116.86	-81291.	4.2461
1000.0	40.795	35566.	116.86	-81292.	4.2461
1050.0	40.580	37601.	118.84	-87184.	4.3371
1100.0	40.365	39624.	120.73	-93174.	4.4244
1150.0	40.150	41637.	122.52	-99255.	4.5082
1200.0	39.934	43639.	124.22	-1.05424E+05	4.5889
1250.0	39.719	45630.	125.85	-1.11676E+05	4.6666
1300.0	39.503	47611.	127.40	-1.18007E+05	4.7415
1350.0	39.288	49581.	128.89	-1.24415E+05	4.8138
1400.0	39.072	51540.	130.31	-1.30895E+05	4.8836
1450.0	38.857	53488.	131.68	-1.37445E+05	4.9512
1500.0	38.641	55426.	132.99	-1.44062E+05	5.0166
1550.0	38.426	57352.	134.26	-1.50743E+05	5.0799
1600.0	38.210	59268.	135.47	-1.57487E+05	5.1413
1650.0	37.995	61173.	136.64	-1.64290E+05	5.2008
1700.0	37.779	63068.	137.78	-1.71150E+05	5.2587
1750.0	37.563	64951.	138.87	-1.78067E+05	5.3149
1800.0	37.348	66824.	139.92	-1.85037E+05	5.3695
1850.0	37.132	68686.	140.94	-1.92058E+05	5.4226
1900.0	36.917	70537.	141.93	-1.99130E+05	5.4743
1950.0	36.701	72378.	142.89	-2.06251E+05	5.5247
2000.0	36.486	74207.	143.81	-2.13418E+05	5.5738
2050.0	36.270	76026.	144.71	-2.20632E+05	5.6216
2100.0	36.055	77834.	145.58	-2.27889E+05	5.6683
2150.0	35.839	79632.	146.43	-2.35189E+05	5.7138
2200.0	35.624	81418.	147.25	-2.42531E+05	5.7583
2250.0	35.408	83194.	148.05	-2.49914E+05	5.8017
2300.0	35.193	84959.	148.82	-2.57336E+05	5.8441
2350.0	34.977	86713.	149.58	-2.64796E+05	5.8856
2400.0	34.762	88457.	150.31	-2.72293E+05	5.9262
2450.0	34.546	90189.	151.03	-2.79827E+05	5.9658
2500.0	34.331	91911.	151.72	-2.87396E+05	6.0047
2550.0	34.116	93623.	152.40	-2.94999E+05	6.0427
2600.0	33.900	95323.	153.06	-3.02636E+05	6.0799
2650.0	33.685	97013.	153.70	-3.10305E+05	6.1163
2700.0	33.470	98691.	154.33	-3.18006E+05	6.1520
2750.0	33.255	1.00360E+05	154.94	-3.25738E+05	6.1870
2800.0	33.039	1.02017E+05	155.54	-3.33500E+05	6.2214
2850.0	32.824	1.03663E+05	156.12	-3.41292E+05	6.2550
2900.0	32.609	1.05299E+05	156.69	-3.49112E+05	6.2880
2950.0	32.366	1.06923E+05	157.25	-3.56961E+05	6.3204
3000.0	32.228	1.08538E+05	157.79	-3.64837E+05	6.3522

BaH2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	46.000	-1.90000E+05	63.000	-2.08783E+05	36.577
300.00	46.051	-1.89915E+05	63.285	-2.08900E+05	36.372
350.00	47.447	-1.87577E+05	70.488	-2.12248E+05	31.676
400.00	48.844	-1.85170E+05	76.915	-2.15936E+05	28.198
450.00	50.241	-1.82693E+05	82.749	-2.19930E+05	25.528
500.00	51.637	-1.80146E+05	88.115	-2.24203E+05	23.422
550.00	53.034	-1.77529E+05	93.102	-2.28735E+05	21.723
600.00	54.431	-1.74843E+05	97.776	-2.33508E+05	20.328
650.00	55.827	-1.72086E+05	102.19	-2.38508E+05	19.166
700.00	57.224	-1.69260E+05	106.38	-2.43723E+05	18.186
750.00	58.621	-1.66364E+05	110.37	-2.49143E+05	17.351
800.00	60.017	-1.63398E+05	114.20	-2.54758E+05	16.634
850.00	61.413	-1.60362E+05	117.88	-2.60560E+05	16.012
871.00	62.000	-1.59066E+05	119.39	-2.63052E+05	15.775
871.00	71.000	-1.53466E+05	125.82	-2.63052E+05	15.775
900.00	71.000	-1.51407E+05	128.14	-2.66734E+05	15.480
950.00	71.000	-1.47857E+05	131.98	-2.73238E+05	15.023
1000.0	71.000	-1.44307E+05	135.62	-2.79929E+05	14.622
1050.0	71.000	-1.40757E+05	139.09	-2.86797E+05	14.267
1100.0	71.000	-1.37207E+05	142.39	-2.93835E+05	13.953
1150.0	71.000	-1.33657E+05	145.54	-3.01034E+05	13.673
1200.0	71.000	-1.30107E+05	148.57	-3.08387E+05	13.423
1250.0	71.000	-1.26557E+05	151.46	-3.15888E+05	13.200
1300.0	71.000	-1.23007E+05	154.25	-3.23532E+05	12.999
1350.0	71.000	-1.19457E+05	156.93	-3.31312E+05	12.819
1400.0	71.000	-1.15907E+05	159.51	-3.39223E+05	12.656
1450.0	71.000	-1.12357E+05	162.00	-3.47261E+05	12.509
1473.0	71.000	-1.10724E+05	163.12	-3.51000E+05	12.447
1473.0	75.000	-85724.	180.09	-3.51000E+05	12.447
1500.0	75.000	-83699.	181.45	-3.55881E+05	12.393
1550.0	75.000	-79949.	183.91	-3.65016E+05	12.301
1600.0	75.000	-76199.	186.29	-3.74271E+05	12.218
1650.0	75.000	-72449.	188.60	-3.83644E+05	12.145
1700.0	75.000	-68699.	190.84	-3.93130E+05	12.079
1750.0	75.000	-64949.	193.02	-4.02727E+05	12.020
1800.0	75.000	-61199.	195.13	-4.12431E+05	11.968
1850.0	75.000	-57449.	197.18	-4.22239E+05	11.922
1900.0	75.000	-53699.	199.18	-4.32148E+05	11.880
1950.0	75.000	-49949.	201.13	-4.42156E+05	11.844
2000.0	75.000	-46199.	203.03	-4.52261E+05	11.812

BaF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.751	-3.22168E+05	246.23	-3.95580E+05	69.302
300.00	34.781	-3.22104E+05	246.44	-3.96036E+05	68.954
350.00	35.446	-3.20347E+05	251.86	-4.08496E+05	60.963
400.00	35.897	-3.18563E+05	256.62	-4.21210E+05	55.003
450.00	36.223	-3.16759E+05	260.87	-4.34150E+05	50.393
500.00	36.469	-3.14942E+05	264.70	-4.47290E+05	46.727
550.00	36.664	-3.13113E+05	268.18	-4.60614E+05	43.744
600.00	36.823	-3.11276E+05	271.38	-4.74104E+05	41.273
650.00	36.956	-3.09431E+05	274.33	-4.87747E+05	39.195
700.00	37.070	-3.07581E+05	277.08	-5.01533E+05	37.424
750.00	37.168	-3.05725E+05	279.64	-5.15452E+05	35.898
800.00	37.255	-3.03864E+05	282.04	-5.29494E+05	34.572
850.00	37.333	-3.01999E+05	284.30	-5.43653E+05	33.408
900.00	37.403	-3.00131E+05	286.44	-5.57922E+05	32.380
950.00	37.466	-2.98259E+05	288.46	-5.72295E+05	31.466
1000.0	37.524	-2.96384E+05	290.38	-5.86767E+05	30.649
1050.0	37.576	-2.94507E+05	292.21	-6.01332E+05	29.914
1100.0	37.625	-2.92627E+05	293.96	-6.15987E+05	29.250
1150.0	37.669	-2.90744E+05	295.64	-6.30727E+05	28.648
1200.0	37.709	-2.88860E+05	297.24	-6.45549E+05	28.099
1250.0	37.747	-2.86973E+05	298.78	-6.60450E+05	27.598
1300.0	37.781	-2.85085E+05	300.26	-6.75426E+05	27.138
1350.0	37.812	-2.83195E+05	301.69	-6.90475E+05	26.715
1400.0	37.840	-2.81304E+05	303.06	-7.05594E+05	26.325
1450.0	37.869	-2.79411E+05	304.39	-7.20781E+05	25.965
1500.0	37.901	-2.77517E+05	305.68	-7.36033E+05	25.630
1550.0	37.936	-2.75621E+05	306.92	-7.51348E+05	25.320
1600.0	37.974	-2.73723E+05	308.13	-7.66724E+05	25.030
1650.0	38.016	-2.71824E+05	309.29	-7.82160E+05	24.760
1700.0	38.062	-2.69922E+05	310.43	-7.97653E+05	24.508
1750.0	38.112	-2.68017E+05	311.53	-8.13202E+05	24.272
1800.0	38.165	-2.66111E+05	312.61	-8.28806E+05	24.051
1850.0	38.223	-2.64201E+05	313.66	-8.44463E+05	23.843
1900.0	38.286	-2.62288E+05	314.68	-8.60171E+05	23.647
1950.0	38.353	-2.60372E+05	315.67	-8.75930E+05	23.463
2000.0	38.424	-2.58453E+05	316.64	-8.91738E+05	23.289
2050.0	38.500	-2.56530E+05	317.59	-9.07594E+05	23.125
2100.0	38.581	-2.54603E+05	318.52	-9.23497E+05	22.970
2150.0	38.666	-2.52672E+05	319.43	-9.39446E+05	22.823
2200.0	38.757	-2.50736E+05	320.32	-9.55439E+05	22.684
2250.0	38.852	-2.48796E+05	321.19	-9.71477E+05	22.553
2300.0	38.952	-2.46851E+05	322.05	-9.87558E+05	22.428
2350.0	39.057	-2.44900E+05	322.89	-1.00368E+06	22.309
2400.0	39.167	-2.42945E+05	323.71	-1.01985E+06	22.196
2450.0	39.282	-2.40984E+05	324.52	-1.03605E+06	22.088
2500.0	39.403	-2.39017E+05	325.31	-1.05230E+06	21.986
2550.0	39.528	-2.37043E+05	326.09	-1.06858E+06	21.888
2600.0	39.658	-2.35064E+05	326.86	-1.08491E+06	21.796
2650.0	39.793	-2.33077E+05	327.62	-1.10127E+06	21.707
2700.0	39.934	-2.31084E+05	328.36	-1.11767E+06	21.622
2750.0	40.080	-2.29084E+05	329.10	-1.13411E+06	21.541
2800.0	40.230	-2.27076E+05	329.82	-1.15058E+06	21.464
2850.0	40.386	-2.25061E+05	330.54	-1.16709E+06	21.390
2900.0	40.548	-2.23038E+05	331.24	-1.18363E+06	21.319
2950.0	40.714	-2.21006E+05	331.93	-1.20021E+06	21.251
3000.0	40.885	-2.18966E+05	332.62	-1.21683E+06	21.186

BaF2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.783	-8.03746E+05	301.29	-8.93578E+05	156.55
300.00	53.832	-8.03647E+05	301.63	-8.94135E+05	155.68
350.00	54.888	-8.00927E+05	310.01	-9.09431E+05	135.72
400.00	55.588	-7.98164E+05	317.39	-9.25120E+05	120.81
450.00	56.080	-7.95372E+05	323.97	-9.41157E+05	109.24
500.00	56.443	-7.92558E+05	329.90	-9.57506E+05	100.03
550.00	56.719	-7.89729E+05	335.29	-9.74137E+05	92.513
600.00	56.936	-7.86887E+05	340.23	-9.91027E+05	86.274
650.00	57.110	-7.84036E+05	344.80	-1.00815E+06	81.014
700.00	57.253	-7.81177E+05	349.04	-1.02550E+06	76.522
750.00	57.372	-7.78311E+05	352.99	-1.04305E+06	72.643
800.00	57.472	-7.75440E+05	356.70	-1.06080E+06	69.261
850.00	57.557	-7.72564E+05	360.18	-1.07872E+06	66.288
900.00	57.630	-7.69684E+05	363.47	-1.09681E+06	63.656
950.00	57.693	-7.66801E+05	366.59	-1.11506E+06	61.309
1000.0	57.746	-7.63915E+05	369.55	-1.13347E+06	59.205
1050.0	57.792	-7.61027E+05	372.37	-1.15202E+06	57.308
1100.0	57.832	-7.58136E+05	375.06	-1.17070E+06	55.591
1150.0	57.865	-7.55243E+05	377.63	-1.18952E+06	54.028
1200.0	57.893	-7.52349E+05	380.10	-1.20846E+06	52.602
1250.0	57.916	-7.49454E+05	382.46	-1.22753E+06	51.294
1300.0	57.935	-7.46558E+05	384.73	-1.24671E+06	50.092
1350.0	57.949	-7.43661E+05	386.92	-1.26600E+06	48.983
1400.0	57.963	-7.40763E+05	389.03	-1.28540E+06	47.958
1450.0	57.979	-7.37865E+05	391.06	-1.30490E+06	47.006
1500.0	57.994	-7.34965E+05	393.03	-1.32450E+06	46.122
1550.0	58.007	-7.32065E+05	394.93	-1.34420E+06	45.298
1600.0	58.019	-7.29165E+05	396.77	-1.36400E+06	44.529
1650.0	58.030	-7.26263E+05	398.55	-1.38388E+06	43.809
1700.0	58.040	-7.23362E+05	400.29	-1.40385E+06	43.134
1750.0	58.050	-7.20459E+05	401.97	-1.42391E+06	42.500
1800.0	58.058	-7.17557E+05	403.61	-1.44405E+06	41.904
1850.0	58.066	-7.14654E+05	405.20	-1.46427E+06	41.342
1900.0	58.073	-7.11750E+05	406.74	-1.48456E+06	40.813
1950.0	58.079	-7.08846E+05	408.25	-1.50494E+06	40.312
2000.0	58.086	-7.05942E+05	409.72	-1.52539E+06	39.838
2050.0	58.091	-7.03038E+05	411.16	-1.54591E+06	39.389
2100.0	58.096	-7.00133E+05	412.56	-1.56650E+06	38.964
2150.0	58.101	-6.97228E+05	413.93	-1.58717E+06	38.560
2200.0	58.106	-6.94323E+05	415.26	-1.60790E+06	38.175
2250.0	58.110	-6.91417E+05	416.57	-1.62869E+06	37.810
2300.0	58.114	-6.88512E+05	417.84	-1.64955E+06	37.462
2350.0	58.118	-6.85606E+05	419.09	-1.67048E+06	37.130
2400.0	58.121	-6.82700E+05	420.32	-1.69146E+06	36.813
2450.0	58.125	-6.79794E+05	421.52	-1.71251E+06	36.510
2500.0	58.128	-6.76888E+05	422.69	-1.73361E+06	36.221
2550.0	58.131	-6.73981E+05	423.84	-1.75478E+06	35.944
2600.0	58.133	-6.71075E+05	424.97	-1.77600E+06	35.679
2650.0	58.136	-6.68168E+05	426.08	-1.79727E+06	35.425
2700.0	58.138	-6.65261E+05	427.16	-1.81860E+06	35.182
2750.0	58.141	-6.62354E+05	428.23	-1.83999E+06	34.949
2800.0	58.143	-6.59447E+05	429.28	-1.86143E+06	34.724
2850.0	58.145	-6.56540E+05	430.31	-1.88292E+06	34.509
2900.0	58.147	-6.53632E+05	431.32	-1.90446E+06	34.302
2950.0	58.149	-6.50725E+05	432.31	-1.92605E+06	34.103
3000.0	58.150	-6.47818E+05	433.29	-1.94769E+06	33.911

BaCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.425	-1.36290E+05	258.84	-2.13462E+05	37.397
300.00	36.442	-1.36223E+05	259.06	-2.13941E+05	37.250
350.00	36.799	-1.34391E+05	264.71	-2.27039E+05	33.883
400.00	37.029	-1.32545E+05	269.64	-2.40400E+05	31.392
450.00	37.188	-1.30689E+05	274.01	-2.53993E+05	29.482
500.00	37.305	-1.28827E+05	277.93	-2.67793E+05	27.975
550.00	37.394	-1.26959E+05	281.49	-2.81780E+05	26.761
600.00	37.467	-1.25088E+05	284.75	-2.95938E+05	25.763
650.00	37.530	-1.23213E+05	287.75	-3.10251E+05	24.931
700.00	37.586	-1.21335E+05	290.54	-3.24709E+05	24.229
750.00	37.639	-1.19454E+05	293.13	-3.39302E+05	23.630
800.00	37.690	-1.17571E+05	295.56	-3.54019E+05	23.115
850.00	37.740	-1.15685E+05	297.85	-3.68855E+05	22.667
900.00	37.791	-1.13797E+05	300.01	-3.83802E+05	22.275
950.00	37.844	-1.11906E+05	302.05	-3.98854E+05	21.930
1000.0	37.899	-1.10012E+05	303.99	-4.14005E+05	21.625
1050.0	37.956	-1.08116E+05	305.84	-4.29252E+05	21.354
1100.0	38.015	-1.06217E+05	307.61	-4.44588E+05	21.111
1150.0	38.078	-1.04314E+05	309.30	-4.60012E+05	20.894
1200.0	38.144	-1.02409E+05	310.92	-4.75517E+05	20.698
1250.0	38.213	-1.00500E+05	312.48	-4.91103E+05	20.522
1300.0	38.286	-98587.	313.98	-5.06765E+05	20.362
1350.0	38.363	-96671.	315.43	-5.22500E+05	20.216
1400.0	38.443	-94751.	316.83	-5.38307E+05	20.084
1450.0	38.527	-92827.	318.18	-5.54182E+05	19.963
1500.0	38.615	-90898.	319.48	-5.70124E+05	19.853
1550.0	38.706	-88965.	320.75	-5.86130E+05	19.752
1600.0	38.803	-87028.	321.98	-6.02198E+05	19.659
1650.0	38.891	-85085.	323.18	-6.18327E+05	19.574
1700.0	39.010	-83138.	324.34	-6.34515E+05	19.496
1750.0	39.155	-81184.	325.47	-6.50761E+05	19.424
1800.0	39.323	-79222.	326.58	-6.67062E+05	19.357
1850.0	39.513	-77251.	327.66	-6.83418E+05	19.296
1900.0	39.721	-75271.	328.71	-6.99827E+05	19.239
1950.0	39.946	-73279.	329.75	-7.16289E+05	19.187
2000.0	40.186	-71276.	330.76	-7.32802E+05	19.138
2050.0	40.439	-69260.	331.76	-7.49365E+05	19.094
2100.0	40.705	-67232.	332.74	-7.65978E+05	19.052
2150.0	40.981	-65189.	333.70	-7.82638E+05	19.014
2200.0	41.268	-63133.	334.64	-7.99347E+05	18.978
2250.0	41.563	-61063.	335.57	-8.16102E+05	18.946
2300.0	41.866	-58977.	336.49	-8.32904E+05	18.915
2350.0	42.177	-56876.	337.39	-8.49751E+05	18.887
2400.0	42.494	-54759.	338.29	-8.66643E+05	18.862
2450.0	42.818	-52626.	339.16	-8.83580E+05	18.838
2500.0	43.147	-50477.	340.03	-9.00560E+05	18.816
2550.0	43.481	-48311.	340.89	-9.17583E+05	18.795
2600.0	43.819	-46129.	341.74	-9.34648E+05	18.777
2650.0	44.162	-43929.	342.58	-9.51756E+05	18.760
2700.0	44.509	-41713.	343.40	-9.68906E+05	18.744
2750.0	44.859	-39479.	344.22	-9.86097E+05	18.730
2800.0	45.212	-37227.	345.04	-1.00333E+06	18.717
2850.0	45.568	-34957.	345.84	-1.02060E+06	18.705
2900.0	45.927	-32670.	346.64	-1.03791E+06	18.694
2950.0	46.288	-30364.	347.42	-1.05526E+06	18.685
3000.0	46.652	-28041.	348.20	-1.07265E+06	18.676

BaCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.101	-4.99301E+05	323.48	-5.95748E+05	104.37
300.00	56.126	-4.99197E+05	323.83	-5.96347E+05	103.83
350.00	56.670	-4.96376E+05	332.53	-6.12761E+05	91.447
400.00	57.023	-4.93533E+05	340.12	-6.29581E+05	82.213
450.00	57.265	-4.90676E+05	346.85	-6.46758E+05	75.072
500.00	57.439	-4.87808E+05	352.89	-6.64254E+05	69.392
550.00	57.567	-4.84933E+05	358.37	-6.82038E+05	64.773
600.00	57.665	-4.82052E+05	363.39	-7.00084E+05	60.946
650.00	57.742	-4.79166E+05	368.01	-7.18370E+05	57.727
700.00	57.802	-4.76278E+05	372.29	-7.36879E+05	54.985
750.00	57.852	-4.73386E+05	376.28	-7.55594E+05	52.623
800.00	57.892	-4.70493E+05	380.01	-7.74503E+05	50.569
850.00	57.925	-4.67597E+05	383.52	-7.93592E+05	48.767
900.00	57.954	-4.64700E+05	386.83	-8.12852E+05	47.175
950.00	57.978	-4.61802E+05	389.97	-8.32272E+05	45.760
1000.0	57.998	-4.58903E+05	392.94	-8.51846E+05	44.495
1050.0	58.016	-4.56002E+05	395.77	-8.71564E+05	43.357
1100.0	58.031	-4.53101E+05	398.47	-8.91421E+05	42.329
1150.0	58.045	-4.50199E+05	401.05	-9.11409E+05	41.396
1200.0	58.057	-4.47297E+05	403.52	-9.31524E+05	40.547
1250.0	58.068	-4.44394E+05	405.89	-9.51760E+05	39.771
1300.0	58.077	-4.41490E+05	408.17	-9.72112E+05	39.059
1350.0	58.086	-4.38586E+05	410.36	-9.92576E+05	38.404
1400.0	58.093	-4.35681E+05	412.48	-1.01315E+06	37.800
1450.0	58.100	-4.32777E+05	414.51	-1.03382E+06	37.241
1500.0	58.106	-4.29871E+05	416.48	-1.05460E+06	36.723
1550.0	58.112	-4.26966E+05	418.39	-1.07547E+06	36.242
1600.0	58.117	-4.24060E+05	420.23	-1.09644E+06	35.794
1650.0	58.122	-4.21154E+05	422.02	-1.11749E+06	35.376
1700.0	58.127	-4.18248E+05	423.76	-1.13864E+06	34.985
1750.0	58.131	-4.15341E+05	425.44	-1.15987E+06	34.619
1800.0	58.135	-4.12435E+05	427.08	-1.18118E+06	34.276
1850.0	58.138	-4.09528E+05	428.67	-1.20257E+06	33.954
1900.0	58.141	-4.06621E+05	430.22	-1.22405E+06	33.651
1950.0	58.144	-4.03714E+05	431.73	-1.24560E+06	33.365
2000.0	58.147	-4.00807E+05	433.21	-1.26722E+06	33.096
2050.0	58.150	-3.97899E+05	434.64	-1.28892E+06	32.841
2100.0	58.152	-3.94992E+05	436.04	-1.31068E+06	32.601
2150.0	58.155	-3.92084E+05	437.41	-1.33252E+06	32.373
2200.0	58.157	-3.89176E+05	438.75	-1.35442E+06	32.157
2250.0	58.159	-3.86268E+05	440.06	-1.37639E+06	31.953
2300.0	58.161	-3.83360E+05	441.33	-1.39843E+06	31.759
2350.0	58.163	-3.80452E+05	442.59	-1.42053E+06	31.574
2400.0	58.164	-3.77544E+05	443.81	-1.44269E+06	31.398
2450.0	58.166	-3.74636E+05	445.01	-1.46491E+06	31.231
2500.0	58.168	-3.71727E+05	446.18	-1.48719E+06	31.072
2550.0	58.169	-3.68819E+05	447.34	-1.50953E+06	30.921
2600.0	58.171	-3.65910E+05	448.47	-1.53192E+06	30.776
2650.0	58.172	-3.63002E+05	449.57	-1.55437E+06	30.638
2700.0	58.173	-3.60093E+05	450.66	-1.57688E+06	30.506
2750.0	58.174	-3.57185E+05	451.73	-1.59944E+06	30.380
2800.0	58.176	-3.54276E+05	452.78	-1.62205E+06	30.259
2850.0	58.177	-3.51367E+05	453.81	-1.64472E+06	30.143
2900.0	58.178	-3.48458E+05	454.82	-1.66743E+06	30.033
2950.0	58.179	-3.45549E+05	455.81	-1.69020E+06	29.927
3000.0	58.180	-3.42640E+05	456.79	-1.71301E+06	29.825

BaBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.987	-75324.	270.85	-1.56077E+05	27.343
300.00	36.998	-75256.	271.08	-1.56579E+05	27.262
350.00	37.219	-73400.	276.80	-1.70279E+05	25.412
400.00	37.358	-71535.	281.78	-1.84246E+05	24.059
450.00	37.452	-69665.	286.18	-1.98447E+05	23.035
500.00	37.520	-67790.	290.13	-2.12857E+05	22.236
550.00	37.572	-65913.	293.71	-2.27454E+05	21.601
600.00	37.616	-64033.	296.98	-2.42223E+05	21.087
650.00	37.655	-62151.	300.00	-2.57148E+05	20.664
700.00	37.692	-60268.	302.79	-2.72219E+05	20.313
750.00	37.728	-58382.	305.39	-2.87424E+05	20.017
800.00	37.766	-56495.	307.82	-3.02755E+05	19.767
850.00	37.805	-54606.	310.12	-3.18204E+05	19.554
900.00	37.847	-52714.	312.28	-3.33764E+05	19.371
950.00	37.892	-50821.	314.33	-3.49430E+05	19.213
1000.0	37.941	-48925.	316.27	-3.65195E+05	19.075
1050.0	37.993	-47027.	318.12	-3.81055E+05	18.956
1100.0	38.049	-45126.	319.89	-3.97006E+05	18.852
1150.0	38.110	-43222.	321.58	-4.13043E+05	18.761
1200.0	38.175	-41315.	323.21	-4.29163E+05	18.681
1250.0	38.244	-39404.	324.77	-4.45363E+05	18.610
1300.0	38.317	-37490.	326.27	-4.61639E+05	18.548
1350.0	38.395	-35572.	327.72	-4.77989E+05	18.494
1400.0	38.478	-33651.	329.11	-4.94410E+05	18.446
1450.0	38.565	-31725.	330.47	-5.10899E+05	18.404
1500.0	38.658	-29794.	331.77	-5.27456E+05	18.367
1550.0	38.754	-27859.	333.04	-5.44076E+05	18.335
1600.0	38.857	-25918.	334.28	-5.60759E+05	18.306
1650.0	38.956	-23973.	335.47	-5.77503E+05	18.282
1700.0	39.087	-22022.	336.64	-5.94306E+05	18.260
1750.0	39.244	-20064.	337.77	-6.11166E+05	18.242
1800.0	39.426	-18097.	338.88	-6.28083E+05	18.226
1850.0	39.630	-16121.	339.96	-6.45054E+05	18.213
1900.0	39.852	-14134.	341.02	-6.62079E+05	18.201
1950.0	40.092	-12136.	342.06	-6.79156E+05	18.192
2000.0	40.347	-10125.	343.08	-6.96285E+05	18.185
2050.0	40.616	-8100.7	344.08	-7.13464E+05	18.179
2100.0	40.898	-6062.8	345.06	-7.30692E+05	18.175
2150.0	41.191	-4010.7	346.03	-7.47970E+05	18.172
2200.0	41.493	-1943.6	346.98	-7.65295E+05	18.170
2250.0	41.805	138.81	347.91	-7.82667E+05	18.169
2300.0	42.125	2237.1	348.84	-8.00086E+05	18.170
2350.0	42.453	4351.5	349.75	-8.17551E+05	18.172
2400.0	42.788	6482.5	350.64	-8.35060E+05	18.174
2450.0	43.128	8630.4	351.53	-8.52615E+05	18.178
2500.0	43.475	10795.	352.40	-8.70213E+05	18.182
2550.0	43.826	12978.	353.27	-8.87855E+05	18.187
2600.0	44.182	15178.	354.12	-9.05540E+05	18.192
2650.0	44.543	17396.	354.97	-9.23267E+05	18.198
2700.0	44.907	19632.	355.80	-9.41036E+05	18.205
2750.0	45.274	21887.	356.63	-9.58847E+05	18.212
2800.0	45.645	24160.	357.45	-9.76699E+05	18.220
2850.0	46.019	26452.	358.26	-9.94592E+05	18.228
2900.0	46.396	28762.	359.06	-1.01253E+06	18.237
2950.0	46.775	31091.	359.86	-1.03050E+06	18.246
3000.0	47.156	33439.	360.65	-1.04851E+06	18.256

BaBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.356	-4.12514E+05	347.95	-5.16256E+05	90.444
300.00	57.366	-4.12408E+05	348.31	-5.16900E+05	89.998
350.00	57.587	-4.09534E+05	357.17	-5.34543E+05	79.774
400.00	57.730	-4.06650E+05	364.87	-5.52598E+05	72.160
450.00	57.828	-4.03761E+05	371.67	-5.71015E+05	66.280
500.00	57.898	-4.00868E+05	377.77	-5.89753E+05	61.610
550.00	57.950	-3.97972E+05	383.29	-6.08782E+05	57.816
600.00	57.990	-3.95073E+05	388.34	-6.28075E+05	54.677
650.00	58.021	-3.92173E+05	392.98	-6.47609E+05	52.041
700.00	58.045	-3.89271E+05	397.28	-6.67367E+05	49.798
750.00	58.065	-3.86369E+05	401.28	-6.87332E+05	47.869
800.00	58.081	-3.83465E+05	405.03	-7.07491E+05	46.193
850.00	58.094	-3.80561E+05	408.55	-7.27832E+05	44.726
900.00	58.106	-3.77656E+05	411.87	-7.48343E+05	43.432
950.00	58.115	-3.74750E+05	415.02	-7.69016E+05	42.282
1000.0	58.123	-3.71844E+05	418.00	-7.89842E+05	41.256
1050.0	58.130	-3.68938E+05	420.83	-8.10813E+05	40.335
1100.0	58.137	-3.66031E+05	423.54	-8.31923E+05	39.504
1150.0	58.142	-3.63124E+05	426.12	-8.53165E+05	38.751
1200.0	58.147	-3.60217E+05	428.60	-8.74534E+05	38.066
1250.0	58.151	-3.57309E+05	430.97	-8.96023E+05	37.442
1300.0	58.154	-3.54402E+05	433.25	-9.17629E+05	36.870
1350.0	58.158	-3.51494E+05	435.45	-9.39347E+05	36.345
1400.0	58.161	-3.48586E+05	437.56	-9.61173E+05	35.861
1450.0	58.163	-3.45678E+05	439.60	-9.83102E+05	35.414
1500.0	58.166	-3.42770E+05	441.57	-1.00513E+06	35.001
1550.0	58.168	-3.39861E+05	443.48	-1.02726E+06	34.617
1600.0	58.170	-3.36953E+05	445.33	-1.04948E+06	34.261
1650.0	58.172	-3.34044E+05	447.12	-1.07179E+06	33.929
1700.0	58.173	-3.31136E+05	448.86	-1.09419E+06	33.620
1750.0	58.175	-3.28227E+05	450.54	-1.11668E+06	33.330
1800.0	58.176	-3.25318E+05	452.18	-1.13924E+06	33.059
1850.0	58.178	-3.22409E+05	453.77	-1.16189E+06	32.805
1900.0	58.179	-3.19500E+05	455.33	-1.18462E+06	32.567
1950.0	58.180	-3.16592E+05	456.84	-1.20742E+06	32.342
2000.0	58.181	-3.13682E+05	458.31	-1.23030E+06	32.131
2050.0	58.182	-3.10773E+05	459.75	-1.25325E+06	31.933
2100.0	58.183	-3.07864E+05	461.15	-1.27628E+06	31.745
2150.0	58.184	-3.04955E+05	462.52	-1.29937E+06	31.568
2200.0	58.185	-3.02046E+05	463.86	-1.32253E+06	31.400
2250.0	58.185	-2.99137E+05	465.16	-1.34575E+06	31.241
2300.0	58.186	-2.96227E+05	466.44	-1.36904E+06	31.091
2350.0	58.187	-2.93318E+05	467.69	-1.39240E+06	30.949
2400.0	58.187	-2.90409E+05	468.92	-1.41581E+06	30.814
2450.0	58.188	-2.87499E+05	470.12	-1.43929E+06	30.685
2500.0	58.188	-2.84590E+05	471.29	-1.46282E+06	30.563
2550.0	58.189	-2.81680E+05	472.45	-1.48642E+06	30.447
2600.0	58.189	-2.78771E+05	473.58	-1.51007E+06	30.337
2650.0	58.190	-2.75862E+05	474.68	-1.53378E+06	30.232
2700.0	58.190	-2.72952E+05	475.77	-1.55754E+06	30.132
2750.0	58.191	-2.70043E+05	476.84	-1.58135E+06	30.036
2800.0	58.191	-2.67133E+05	477.89	-1.60522E+06	29.945
2850.0	58.192	-2.64223E+05	478.92	-1.62914E+06	29.858
2900.0	58.192	-2.61314E+05	479.93	-1.65311E+06	29.775
2950.0	58.192	-2.58404E+05	480.93	-1.67713E+06	29.696
3000.0	58.193	-2.55495E+05	481.90	-1.70120E+06	29.620

BaI<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.305	-10237.	278.57	-93294.	16.344
300.00	37.313	-10168.	278.80	-93809.	16.333
350.00	37.487	-8297.7	284.57	-1.07897E+05	16.102
400.00	37.604	-6420.2	289.58	-1.22254E+05	15.964
450.00	37.690	-4537.8	294.02	-1.36846E+05	15.884
500.00	37.759	-2651.5	297.99	-1.51648E+05	15.842
550.00	37.820	-761.97	301.60	-1.66639E+05	15.826
600.00	37.876	1130.4	304.89	-1.81803E+05	15.827
650.00	37.932	3025.6	307.92	-1.97124E+05	15.841
700.00	37.988	4923.6	310.74	-2.12591E+05	15.863
750.00	38.046	6824.5	313.36	-2.28194E+05	15.892
800.00	38.108	8728.3	315.82	-2.43924E+05	15.926
850.00	38.173	10635.	318.13	-2.59773E+05	15.963
900.00	38.243	12546.	320.31	-2.75735E+05	16.003
950.00	38.317	14460.	322.38	-2.91803E+05	16.044
1000.0	38.396	16377.	324.35	-3.07971E+05	16.086
1050.0	38.481	18299.	326.22	-3.24236E+05	16.129
1100.0	38.571	20226.	328.02	-3.40592E+05	16.173
1150.0	38.666	22157.	329.73	-3.57036E+05	16.217
1200.0	38.767	24092.	331.38	-3.73565E+05	16.260
1250.0	38.873	26033.	332.97	-3.90173E+05	16.304
1300.0	38.985	27980.	334.49	-4.06860E+05	16.347
1350.0	39.103	29932.	335.97	-4.23622E+05	16.390
1400.0	39.226	31890.	337.39	-4.40456E+05	16.433
1450.0	39.356	33854.	338.77	-4.57360E+05	16.475
1500.0	39.517	35826.	340.11	-4.74332E+05	16.517
1550.0	39.705	37807.	341.40	-4.91370E+05	16.559
1600.0	39.919	39797.	342.67	-5.08472E+05	16.599
1650.0	40.156	41799.	343.90	-5.25636E+05	16.640
1700.0	40.414	43813.	345.10	-5.42861E+05	16.680
1750.0	40.692	45841.	346.28	-5.60146E+05	16.719
1800.0	40.988	47883.	347.43	-5.77489E+05	16.758
1850.0	41.302	49940.	348.56	-5.94888E+05	16.796
1900.0	41.632	52013.	349.66	-6.12344E+05	16.834
1950.0	41.978	54103.	350.75	-6.29854E+05	16.871
2000.0	42.339	56211.	351.81	-6.47418E+05	16.908
2050.0	42.713	58337.	352.86	-6.65036E+05	16.945
2100.0	43.101	60483.	353.90	-6.82705E+05	16.981
2150.0	43.502	62648.	354.92	-7.00425E+05	17.017
2200.0	43.915	64833.	355.92	-7.18196E+05	17.052
2250.0	44.340	67039.	356.91	-7.36017E+05	17.086
2300.0	44.777	69267.	357.89	-7.53887E+05	17.121
2350.0	45.226	71517.	358.86	-7.71806E+05	17.155
2400.0	45.685	73790.	359.82	-7.89773E+05	17.189
2450.0	46.155	76086.	360.76	-8.07788E+05	17.222
2500.0	46.636	78406.	361.70	-8.25850E+05	17.255
2550.0	47.127	80750.	362.63	-8.43958E+05	17.287
2600.0	47.627	83118.	363.55	-8.62113E+05	17.320
2650.0	48.137	85513.	364.46	-8.80313E+05	17.352
2700.0	48.640	87932.	365.37	-8.98559E+05	17.383
2750.0	49.135	90376.	366.26	-9.16849E+05	17.415
2800.0	49.622	92845.	367.15	-9.35185E+05	17.446
2850.0	50.099	95338.	368.04	-9.53565E+05	17.476
2900.0	50.565	97855.	368.91	-9.71988E+05	17.507
2950.0	51.021	1.00395E+05	369.78	-9.90456E+05	17.537
3000.0	51.465	1.02957E+05	370.64	-1.00897E+06	17.567

BaI2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.630	-2.88440E+05	361.97	-3.96362E+05	69.439
300.00	57.637	-2.88333E+05	362.33	-3.97032E+05	69.128
350.00	57.786	-2.85448E+05	371.22	-4.15376E+05	61.990
400.00	57.883	-2.82556E+05	378.95	-4.34135E+05	56.691
450.00	57.949	-2.79660E+05	385.77	-4.53256E+05	52.611
500.00	57.997	-2.76761E+05	391.88	-4.72700E+05	49.381
550.00	58.032	-2.73860E+05	397.41	-4.92434E+05	46.766
600.00	58.059	-2.70958E+05	402.46	-5.12432E+05	44.610
650.00	58.079	-2.68054E+05	407.11	-5.32673E+05	42.805
700.00	58.096	-2.65150E+05	411.41	-5.53137E+05	41.275
750.00	58.109	-2.62245E+05	415.42	-5.73809E+05	39.963
800.00	58.120	-2.59339E+05	419.17	-5.94675E+05	38.827
850.00	58.129	-2.56433E+05	422.69	-6.15722E+05	37.837
900.00	58.137	-2.53526E+05	426.02	-6.36941E+05	36.966
950.00	58.143	-2.50619E+05	429.16	-6.58321E+05	36.196
1000.0	58.149	-2.47712E+05	432.14	-6.79854E+05	35.511
1050.0	58.154	-2.44804E+05	434.98	-7.01533E+05	34.898
1100.0	58.158	-2.41897E+05	437.68	-7.23350E+05	34.348
1150.0	58.161	-2.38989E+05	440.27	-7.45299E+05	33.852
1200.0	58.165	-2.36080E+05	442.75	-7.67375E+05	33.402
1250.0	58.167	-2.33172E+05	445.12	-7.89572E+05	32.994
1300.0	58.170	-2.30264E+05	447.40	-8.11885E+05	32.621
1350.0	58.172	-2.27355E+05	449.60	-8.34311E+05	32.281
1400.0	58.174	-2.24446E+05	451.71	-8.56844E+05	31.968
1450.0	58.176	-2.21538E+05	453.75	-8.79481E+05	31.682
1500.0	58.178	-2.18629E+05	455.73	-9.02218E+05	31.417
1550.0	58.179	-2.15720E+05	457.63	-9.25052E+05	31.173
1600.0	58.180	-2.12811E+05	459.48	-9.47980E+05	30.948
1650.0	58.182	-2.09902E+05	461.27	-9.70999E+05	30.738
1700.0	58.183	-2.06993E+05	463.01	-9.94106E+05	30.544
1750.0	58.184	-2.04084E+05	464.69	-1.01730E+06	30.364
1800.0	58.185	-2.01174E+05	466.33	-1.04058E+06	30.196
1850.0	58.186	-1.98265E+05	467.93	-1.06393E+06	30.039
1900.0	58.186	-1.95356E+05	469.48	-1.08737E+06	29.893
1950.0	58.187	-1.92447E+05	470.99	-1.11088E+06	29.756
2000.0	58.188	-1.89537E+05	472.46	-1.13447E+06	29.628
2050.0	58.188	-1.86628E+05	473.90	-1.15812E+06	29.509
2100.0	58.189	-1.83718E+05	475.30	-1.18186E+06	29.396
2150.0	58.190	-1.80809E+05	476.67	-1.20565E+06	29.291
2200.0	58.190	-1.77899E+05	478.01	-1.22952E+06	29.192
2250.0	58.191	-1.74990E+05	479.32	-1.25346E+06	29.099
2300.0	58.191	-1.72080E+05	480.60	-1.27745E+06	29.011
2350.0	58.192	-1.69171E+05	481.85	-1.30151E+06	28.929
2400.0	58.192	-1.66261E+05	483.07	-1.32564E+06	28.851
2450.0	58.192	-1.63352E+05	484.27	-1.34982E+06	28.778
2500.0	58.193	-1.60442E+05	485.45	-1.37406E+06	28.709
2550.0	58.193	-1.57532E+05	486.60	-1.39837E+06	28.644
2600.0	58.193	-1.54623E+05	487.73	-1.42272E+06	28.582
2650.0	58.194	-1.51713E+05	488.84	-1.44714E+06	28.524
2700.0	58.194	-1.48803E+05	489.93	-1.47161E+06	28.469
2750.0	58.194	-1.45894E+05	491.00	-1.49613E+06	28.417
2800.0	58.195	-1.42984E+05	492.04	-1.52071E+06	28.368
2850.0	58.195	-1.40074E+05	493.07	-1.54534E+06	28.322
2900.0	58.195	-1.37164E+05	494.09	-1.57001E+06	28.278
2950.0	58.195	-1.34255E+05	495.08	-1.59474E+06	28.237
3000.0	58.195	-1.31345E+05	496.06	-1.61952E+06	28.198

BaO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.885	-1.17948E+05	235.46	-1.88150E+05	32.962
300.00	32.927	-1.17887E+05	235.66	-1.88585E+05	32.835
350.00	33.850	-1.16216E+05	240.81	-2.00500E+05	29.922
400.00	34.502	-1.14507E+05	245.37	-2.12657E+05	27.769
450.00	34.993	-1.12769E+05	249.47	-2.25029E+05	26.120
500.00	35.380	-1.11009E+05	253.18	-2.37597E+05	24.821
550.00	35.695	-1.09232E+05	256.56	-2.50342E+05	23.775
600.00	35.958	-1.07440E+05	259.68	-2.63249E+05	22.917
650.00	36.181	-1.05637E+05	262.57	-2.76306E+05	22.204
700.00	36.373	-1.03823E+05	265.26	-2.89502E+05	21.602
750.00	36.539	-1.02000E+05	267.77	-3.02829E+05	21.090
800.00	36.684	-1.00169E+05	270.13	-3.16277E+05	20.650
850.00	36.808	-98332.	272.36	-3.29840E+05	20.269
900.00	36.916	-96489.	274.47	-3.43511E+05	19.936
950.00	37.007	-94641.	276.47	-3.57285E+05	19.644
1000.0	37.084	-92788.	278.37	-3.71156E+05	19.387
1050.0	37.148	-90932.	280.18	-3.85120E+05	19.158
1100.0	37.197	-89074.	281.91	-3.99173E+05	18.955
1150.0	37.277	-87212.	283.56	-4.13310E+05	18.773
1200.0	37.340	-85346.	285.15	-4.27528E+05	18.609
1250.0	37.390	-83478.	286.68	-4.41824E+05	18.462
1300.0	37.430	-81607.	288.14	-4.56195E+05	18.330
1350.0	37.464	-79735.	289.56	-4.70638E+05	18.210
1400.0	37.493	-77861.	290.92	-4.85150E+05	18.101
1450.0	37.520	-75986.	292.24	-4.99729E+05	18.002
1500.0	37.546	-74109.	293.51	-5.14373E+05	17.912
1550.0	37.573	-72231.	294.74	-5.29079E+05	17.829
1600.0	37.602	-70352.	295.93	-5.43846E+05	17.754
1650.0	37.635	-68471.	297.09	-5.58672E+05	17.686
1700.0	37.671	-66588.	298.22	-5.73555E+05	17.623
1750.0	37.712	-64704.	299.31	-5.88493E+05	17.565
1800.0	37.759	-62817.	300.37	-6.03485E+05	17.512
1850.0	37.811	-60928.	301.41	-6.18530E+05	17.464
1900.0	37.870	-59036.	302.42	-6.33625E+05	17.419
1950.0	37.936	-57141.	303.40	-6.48771E+05	17.378
2000.0	38.009	-55242.	304.36	-6.63965E+05	17.341
2050.0	38.089	-53340.	305.30	-6.79207E+05	17.306
2100.0	38.178	-51433.	306.22	-6.94495E+05	17.274
2150.0	38.274	-49522.	307.12	-7.09828E+05	17.245
2200.0	38.379	-47605.	308.00	-7.25206E+05	17.218
2250.0	38.493	-45684.	308.86	-7.40628E+05	17.194
2300.0	38.615	-43756.	309.71	-7.56092E+05	17.171
2350.0	38.746	-41822.	310.54	-7.71599E+05	17.150
2400.0	38.887	-39881.	311.36	-7.87147E+05	17.131
2450.0	39.038	-37933.	312.16	-8.02735E+05	17.114
2500.0	39.217	-35977.	312.95	-8.18363E+05	17.098
2550.0	39.421	-34011.	313.73	-8.34030E+05	17.084
2600.0	39.651	-32034.	314.50	-8.49736E+05	17.071
2650.0	39.906	-30046.	315.26	-8.65480E+05	17.059
2700.0	40.184	-28043.	316.01	-8.81261E+05	17.049
2750.0	40.487	-26027.	316.75	-8.97080E+05	17.039
2800.0	40.812	-23994.	317.48	-9.12936E+05	17.031
2850.0	41.161	-21945.	318.20	-9.28828E+05	17.023
2900.0	41.531	-19878.	318.92	-9.44756E+05	17.016
2950.0	41.924	-17792.	319.64	-9.60720E+05	17.011
3000.0	42.338	-15685.	320.34	-9.76720E+05	17.006

BaO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	70.700	-6.34294E+05	93.094	-6.62050E+05	115.99
300.00	70.751	-6.34164E+05	93.531	-6.62223E+05	115.30
350.00	72.153	-6.30591E+05	104.54	-6.67181E+05	99.569
400.00	73.555	-6.26948E+05	114.27	-6.72656E+05	87.838
450.00	74.956	-6.23235E+05	123.01	-6.78592E+05	78.767
500.00	76.358	-6.19453E+05	130.98	-6.84944E+05	71.554
550.00	77.760	-6.15600E+05	138.33	-6.91680E+05	65.689
600.00	79.161	-6.11677E+05	145.15	-6.98769E+05	60.832
650.00	80.563	-6.07684E+05	151.54	-7.06188E+05	56.749
700.00	81.965	-6.03620E+05	157.57	-7.13917E+05	53.272
750.00	83.366	-5.99487E+05	163.27	-7.21939E+05	50.279
800.00	84.768	-5.95284E+05	168.69	-7.30239E+05	47.679
850.00	86.169	-5.91010E+05	173.88	-7.38804E+05	45.400
900.00	87.571	-5.86667E+05	178.84	-7.47623E+05	43.390
950.00	88.973	-5.82253E+05	183.61	-7.56685E+05	41.604
1000.0	90.374	-5.77770E+05	188.21	-7.65982E+05	40.010

Ba(OH)₂<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.968	-6.06670E+05	318.65	-7.01676E+05	122.93
300.00	80.090	-6.06522E+05	319.15	-7.02266E+05	122.27
350.00	82.755	-6.02446E+05	331.71	-7.18544E+05	107.23
400.00	84.565	-5.98261E+05	342.88	-7.35414E+05	96.033
450.00	85.884	-5.93998E+05	352.92	-7.52814E+05	87.382
500.00	86.905	-5.89677E+05	362.03	-7.70691E+05	80.512
550.00	87.736	-5.85310E+05	370.35	-7.89003E+05	74.931
600.00	88.442	-5.80906E+05	378.02	-8.07715E+05	70.316
650.00	89.065	-5.76468E+05	385.12	-8.26796E+05	66.440
700.00	89.632	-5.72000E+05	391.74	-8.46219E+05	63.144
750.00	90.161	-5.67505E+05	397.94	-8.65963E+05	60.309
800.00	90.666	-5.62984E+05	403.78	-8.86007E+05	57.849
850.00	91.155	-5.58439E+05	409.29	-9.06335E+05	55.695
900.00	91.634	-5.53869E+05	414.51	-9.26932E+05	53.796
950.00	92.110	-5.49275E+05	419.48	-9.47783E+05	52.111
1000.0	92.585	-5.44658E+05	424.22	-9.68876E+05	50.608
1050.0	93.063	-5.40017E+05	428.75	-9.90201E+05	49.259
1100.0	93.546	-5.35352E+05	433.09	-1.01175E+06	48.043
1150.0	94.035	-5.30662E+05	437.26	-1.03351E+06	46.942
1200.0	94.533	-5.25948E+05	441.27	-1.05547E+06	45.942
1250.0	95.039	-5.21209E+05	445.14	-1.07763E+06	45.031
1300.0	95.554	-5.16444E+05	448.88	-1.09998E+06	44.197
1350.0	96.088	-5.11653E+05	452.49	-1.12252E+06	43.432
1400.0	96.582	-5.06836E+05	456.00	-1.14523E+06	42.728
1450.0	97.042	-5.01995E+05	459.39	-1.16811E+06	42.079
1500.0	97.472	-4.97132E+05	462.69	-1.19117E+06	41.479
1550.0	97.874	-4.92248E+05	465.89	-1.21438E+06	40.923
1600.0	98.253	-4.87345E+05	469.01	-1.23775E+06	40.408
1650.0	98.610	-4.82423E+05	472.04	-1.26128E+06	39.928
1700.0	98.948	-4.77484E+05	474.98	-1.28496E+06	39.481
1750.0	99.268	-4.72529E+05	477.86	-1.30878E+06	39.064
1800.0	99.573	-4.67558E+05	480.66	-1.33274E+06	38.674
1850.0	99.863	-4.62572E+05	483.39	-1.35684E+06	38.309
1900.0	100.14	-4.57572E+05	486.06	-1.38108E+06	37.968
1950.0	100.41	-4.52558E+05	488.66	-1.40545E+06	37.647
2000.0	100.66	-4.47531E+05	491.21	-1.42994E+06	37.345
2050.0	100.90	-4.42492E+05	493.70	-1.45457E+06	37.062
2100.0	101.14	-4.37441E+05	496.13	-1.47931E+06	36.795
2150.0	101.36	-4.32379E+05	498.51	-1.50418E+06	36.543
2200.0	101.58	-4.27305E+05	500.84	-1.52916E+06	36.306
2250.0	101.79	-4.22221E+05	503.13	-1.55426E+06	36.082
2300.0	101.99	-4.17127E+05	505.37	-1.57948E+06	35.870
2350.0	102.18	-4.12023E+05	507.56	-1.60480E+06	35.670
2400.0	102.37	-4.06909E+05	509.72	-1.63023E+06	35.480
2450.0	102.55	-4.01786E+05	511.83	-1.65577E+06	35.301
2500.0	102.72	-3.96655E+05	513.90	-1.68141E+06	35.130
2550.0	102.89	-3.91514E+05	515.94	-1.70716E+06	34.969
2600.0	103.05	-3.86366E+05	517.94	-1.73301E+06	34.816
2650.0	103.21	-3.81209E+05	519.90	-1.75895E+06	34.670
2700.0	103.36	-3.76045E+05	521.83	-1.78500E+06	34.532
2750.0	103.51	-3.70873E+05	523.73	-1.81114E+06	34.401
2800.0	103.65	-3.65694E+05	525.60	-1.83737E+06	34.276
2850.0	103.79	-3.60508E+05	527.43	-1.86370E+06	34.157
2900.0	103.92	-3.55316E+05	529.24	-1.89011E+06	34.044
2950.0	104.05	-3.50117E+05	531.02	-1.91662E+06	33.936
3000.0	104.17	-3.44911E+05	532.77	-1.94321E+06	33.834

BaSO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	102.10	-1.45900E+06	132.10	-1.49838E+06	262.50
300.00	102.51	-1.45881E+06	132.73	-1.49863E+06	260.93
350.00	111.82	-1.45344E+06	149.27	-1.50568E+06	224.71
400.00	118.77	-1.44767E+06	164.67	-1.51354E+06	197.64
450.00	124.34	-1.44158E+06	179.00	-1.52213E+06	176.68
500.00	129.06	-1.43525E+06	192.35	-1.53142E+06	159.98
550.00	133.22	-1.42869E+06	204.85	-1.54135E+06	146.38
600.00	137.01	-1.42193E+06	216.60	-1.55189E+06	135.10
650.00	140.52	-1.41499E+06	227.71	-1.56300E+06	125.60
700.00	143.84	-1.40788E+06	238.24	-1.57465E+06	117.50
750.00	147.02	-1.40061E+06	248.28	-1.58682E+06	110.51
800.00	150.09	-1.39318E+06	257.87	-1.59947E+06	104.43
850.00	153.08	-1.38560E+06	267.05	-1.61260E+06	99.096
900.00	156.00	-1.37787E+06	275.89	-1.62617E+06	94.378
950.00	158.86	-1.37000E+06	284.40	-1.64018E+06	90.181
1000.0	161.69	-1.36199E+06	292.62	-1.65461E+06	86.426
1050.0	164.48	-1.35384E+06	300.58	-1.66944E+06	83.048
1100.0	167.24	-1.34554E+06	308.29	-1.68466E+06	79.996
1150.0	169.98	-1.33711E+06	315.78	-1.70026E+06	77.226
1200.0	172.69	-1.32854E+06	323.08	-1.71624E+06	74.704
1250.0	175.40	-1.31984E+06	330.18	-1.73257E+06	72.398
1300.0	178.08	-1.31101E+06	337.11	-1.74925E+06	70.284
1350.0	180.76	-1.30203E+06	343.88	-1.76628E+06	68.340
1400.0	183.43	-1.29293E+06	350.51	-1.78364E+06	66.547
1423.0	184.65	-1.28870E+06	353.50	-1.79173E+06	65.768
1423.0	170.00	-1.27870E+06	360.53	-1.79173E+06	65.768
1450.0	170.00	-1.27411E+06	363.73	-1.80151E+06	64.896
1500.0	170.00	-1.26561E+06	369.49	-1.81984E+06	63.371
1550.0	170.00	-1.25711E+06	375.06	-1.83846E+06	61.954
1600.0	170.00	-1.24861E+06	380.46	-1.85735E+06	60.635
1650.0	170.00	-1.24011E+06	385.69	-1.87650E+06	59.404
1700.0	170.00	-1.23161E+06	390.77	-1.89591E+06	58.253
1750.0	170.00	-1.22311E+06	395.70	-1.91558E+06	57.175
1800.0	170.00	-1.21461E+06	400.49	-1.93548E+06	56.165
1850.0	170.00	-1.20611E+06	405.14	-1.95562E+06	55.215
1853.0	170.00	-1.20560E+06	405.42	-1.95684E+06	55.160
1853.0	170.00	-1.16560E+06	427.00	-1.95684E+06	55.160
1900.0	170.00	-1.15761E+06	431.26	-1.97701E+06	54.350
1950.0	170.00	-1.14911E+06	435.68	-1.99868E+06	53.537
2000.0	170.00	-1.14061E+06	439.98	-2.02057E+06	52.771
2050.0	170.00	-1.13211E+06	444.18	-2.04268E+06	52.047
2100.0	170.00	-1.12361E+06	448.28	-2.06499E+06	51.362
2150.0	170.00	-1.11511E+06	452.28	-2.08750E+06	50.715
2200.0	170.00	-1.10661E+06	456.19	-2.11022E+06	50.102
2250.0	170.00	-1.09811E+06	460.01	-2.13312E+06	49.520
2300.0	170.00	-1.08961E+06	463.74	-2.15621E+06	48.968
2350.0	170.00	-1.08111E+06	467.40	-2.17949E+06	48.443
2400.0	170.00	-1.07261E+06	470.98	-2.20295E+06	47.945
2450.0	170.00	-1.06411E+06	474.48	-2.22659E+06	47.470
2500.0	170.00	-1.05561E+06	477.92	-2.25040E+06	47.018
2550.0	170.00	-1.04711E+06	481.28	-2.27438E+06	46.588
2600.0	170.00	-1.03861E+06	484.58	-2.29853E+06	46.177
2650.0	170.00	-1.03011E+06	487.82	-2.32284E+06	45.785
2700.0	170.00	-1.02161E+06	491.00	-2.34731E+06	45.410
2750.0	170.00	-1.01311E+06	494.12	-2.37194E+06	45.052
2800.0	170.00	-1.00461E+06	497.18	-2.39672E+06	44.710
2850.0	170.00	-9.96108E+05	500.19	-2.42165E+06	44.383
2900.0	170.00	-9.87608E+05	503.15	-2.44674E+06	44.069
2950.0	170.00	-9.79108E+05	506.05	-2.47197E+06	43.769
3000.0	170.00	-9.70608E+05	508.91	-2.49734E+06	43.481

Ba3N2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	117.18	-3.63171E+05	152.30	-4.08579E+05	71.579
300.00	117.36	-3.62954E+05	153.02	-4.08861E+05	71.187
350.00	122.28	-3.56963E+05	171.48	-4.16982E+05	62.230
400.00	127.19	-3.50726E+05	188.13	-4.25979E+05	55.626
450.00	132.11	-3.44244E+05	203.40	-4.35773E+05	50.582
500.00	137.03	-3.37515E+05	217.57	-4.46301E+05	46.624
550.00	141.94	-3.30541E+05	230.86	-4.57515E+05	43.450
600.00	146.86	-3.23321E+05	243.42	-4.69375E+05	40.862
650.00	151.77	-3.15855E+05	255.37	-4.81847E+05	38.721
700.00	156.69	-3.08144E+05	266.80	-4.94904E+05	36.929
750.00	161.53	-3.00190E+05	277.77	-5.08520E+05	35.416
800.00	166.52	-2.91988E+05	288.36	-5.22675E+05	34.126
850.00	171.24	-2.83542E+05	298.60	-5.37350E+05	33.021
900.00	175.36	-2.74874E+05	308.50	-5.52529E+05	32.067
950.00	178.57	-2.66020E+05	318.08	-5.68195E+05	31.241
1000.0	180.50	-2.57039E+05	327.29	-5.84331E+05	30.522
1050.0	181.54	-2.47985E+05	336.13	-6.00918E+05	29.893
1100.0	182.00	-2.38895E+05	344.58	-6.17937E+05	29.343
1150.0	182.13	-2.29790E+05	352.68	-6.35370E+05	28.859
1200.0	182.10	-2.20684E+05	360.43	-6.53199E+05	28.432
1250.0	182.09	-2.11580E+05	367.86	-6.71408E+05	28.056
1300.0	182.20	-2.02473E+05	375.01	-6.89980E+05	27.723

Ba(NO3)2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	151.39	-9.92068E+05	213.80	-1.05581E+06	184.97
300.00	151.90	-9.91788E+05	214.74	-1.05621E+06	183.90
350.00	164.31	-9.83873E+05	239.12	-1.06756E+06	159.32
400.00	174.99	-9.75385E+05	261.77	-1.08009E+06	141.04
450.00	184.66	-9.66391E+05	282.95	-1.09372E+06	126.95
500.00	193.70	-9.56929E+05	302.87	-1.10837E+06	115.79
550.00	202.34	-9.47027E+05	321.74	-1.12399E+06	106.74
600.00	210.69	-9.36700E+05	339.71	-1.14053E+06	99.289
650.00	218.85	-9.25961E+05	356.90	-1.15794E+06	93.051
700.00	226.86	-9.14818E+05	373.41	-1.17620E+06	87.767
750.00	234.77	-9.03277E+05	389.33	-1.19527E+06	83.244
800.00	242.60	-8.91342E+05	404.73	-1.21513E+06	79.338

BaC2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	63.888	-74057.	87.864	-1.00253E+05	17.564
300.00	64.029	-73938.	88.260	-1.00416E+05	17.484
350.00	67.067	-70656.	98.375	-1.05087E+05	15.683
400.00	69.104	-67248.	107.47	-1.10237E+05	14.395
450.00	70.560	-63755.	115.70	-1.15819E+05	13.444
500.00	71.655	-60198.	123.19	-1.21795E+05	12.723
550.00	72.514	-56593.	130.06	-1.28128E+05	12.168
600.00	73.213	-52949.	136.40	-1.34792E+05	11.734
650.00	73.798	-49274.	142.29	-1.41761E+05	11.392
700.00	74.302	-45571.	147.78	-1.49014E+05	11.119
750.00	74.744	-41845.	152.92	-1.56533E+05	10.902
800.00	75.141	-38097.	157.75	-1.64301E+05	10.727
850.00	75.501	-34331.	162.32	-1.72304E+05	10.588
900.00	75.834	-30548.	166.65	-1.80529E+05	10.477
950.00	76.145	-26748.	170.75	-1.88965E+05	10.390
1000.0	76.437	-22933.	174.67	-1.97601E+05	10.321
1050.0	76.716	-19105.	178.40	-2.06429E+05	10.269
1100.0	76.982	-15262.	181.98	-2.15439E+05	10.230
1150.0	77.238	-11407.	185.41	-2.24624E+05	10.203
1200.0	77.486	-7538.4	188.70	-2.33978E+05	10.185
1250.0	77.727	-3658.0	191.87	-2.43492E+05	10.175
1300.0	77.962	234.19	194.92	-2.53162E+05	10.172
1350.0	78.192	4138.0	197.87	-2.62982E+05	10.175
1400.0	78.417	8053.3	200.71	-2.72947E+05	10.184
1450.0	78.639	11980.	203.47	-2.83052E+05	10.196
1500.0	78.857	15917.	206.14	-2.93293E+05	10.213

BaCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	85.983	-1.21400E+06	112.10	-1.24742E+06	218.54
300.00	86.398	-1.21384E+06	112.63	-1.24763E+06	217.23
350.00	94.946	-1.20929E+06	126.65	-1.25362E+06	187.09
400.00	100.18	-1.20440E+06	139.70	-1.26028E+06	164.57
450.00	103.74	-1.19930E+06	151.71	-1.26757E+06	147.13
500.00	106.50	-1.19404E+06	162.79	-1.27543E+06	133.24
550.00	108.95	-1.18865E+06	173.06	-1.28383E+06	121.93
600.00	111.39	-1.18314E+06	182.64	-1.29273E+06	112.54
650.00	114.01	-1.17751E+06	191.66	-1.30209E+06	104.63
700.00	116.93	-1.17174E+06	200.21	-1.31189E+06	97.892
750.00	120.22	-1.16581E+06	208.39	-1.32210E+06	92.077
800.00	123.96	-1.15971E+06	216.27	-1.33272E+06	87.016
850.00	128.17	-1.15341E+06	223.90	-1.34373E+06	82.573
900.00	132.90	-1.14688E+06	231.36	-1.35511E+06	78.646
950.00	138.16	-1.14011E+06	238.69	-1.36686E+06	75.153
1000.0	143.97	-1.13306E+06	245.92	-1.37898E+06	72.028
1050.0	150.35	-1.12570E+06	253.09	-1.39145E+06	69.219
1083.0	154.87	-1.12067E+06	257.82	-1.39988E+06	67.517
1083.0	158.00	-1.10437E+06	272.87	-1.39988E+06	67.517
1100.0	158.00	-1.10168E+06	275.33	-1.40454E+06	66.694
1150.0	158.00	-1.09378E+06	282.35	-1.41848E+06	64.428
1200.0	158.00	-1.08588E+06	289.07	-1.43277E+06	62.365
1233.0	158.00	-1.08067E+06	293.36	-1.44238E+06	61.103
1233.0	160.00	-1.07777E+06	295.71	-1.44238E+06	61.103
1250.0	160.00	-1.07505E+06	297.90	-1.44743E+06	60.483
1300.0	160.00	-1.06705E+06	304.18	-1.46248E+06	58.762
1350.0	160.00	-1.05905E+06	310.22	-1.47784E+06	57.180
1400.0	160.00	-1.05105E+06	316.04	-1.49350E+06	55.722
1450.0	160.00	-1.04305E+06	321.65	-1.50944E+06	54.375
1500.0	160.00	-1.03505E+06	327.08	-1.52566E+06	53.127
1550.0	160.00	-1.02705E+06	332.32	-1.54215E+06	51.969
1600.0	160.00	-1.01905E+06	337.40	-1.55889E+06	50.891
1650.0	160.00	-1.01105E+06	342.33	-1.57588E+06	49.887
1700.0	160.00	-1.00305E+06	347.10	-1.59312E+06	48.949
1750.0	160.00	-9.95047E+05	351.74	-1.61059E+06	48.072
1800.0	160.00	-9.87047E+05	356.25	-1.62829E+06	47.251
1828.0	160.00	-9.82567E+05	358.72	-1.63830E+06	46.813
1828.0	165.00	-9.42567E+05	380.60	-1.63830E+06	46.813
1850.0	165.00	-9.38937E+05	382.57	-1.64670E+06	46.493
1900.0	165.00	-9.30687E+05	386.97	-1.66594E+06	45.799
1950.0	165.00	-9.22437E+05	391.26	-1.68539E+06	45.145
2000.0	165.00	-9.14187E+05	395.44	-1.70506E+06	44.530
2050.0	165.00	-9.05937E+05	399.51	-1.72493E+06	43.951
2100.0	165.00	-8.97687E+05	403.49	-1.74501E+06	43.404
2150.0	165.00	-8.89437E+05	407.37	-1.76528E+06	42.887
2200.0	165.00	-8.81187E+05	411.16	-1.78574E+06	42.398
2250.0	165.00	-8.72937E+05	414.87	-1.80640E+06	41.935
2300.0	165.00	-8.64687E+05	418.50	-1.82723E+06	41.497
2350.0	165.00	-8.56437E+05	422.05	-1.84824E+06	41.081
2400.0	165.00	-8.48187E+05	425.52	-1.86943E+06	40.686
2450.0	165.00	-8.39937E+05	428.92	-1.89079E+06	40.311
2500.0	165.00	-8.31687E+05	432.25	-1.91232E+06	39.955
2550.0	165.00	-8.23437E+05	435.52	-1.93402E+06	39.616
2600.0	165.00	-8.15187E+05	438.73	-1.95588E+06	39.293
2650.0	165.00	-8.06937E+05	441.87	-1.97789E+06	38.986
2700.0	165.00	-7.98687E+05	444.95	-2.00006E+06	38.693
2750.0	165.00	-7.90437E+05	447.98	-2.02238E+06	38.413
2800.0	165.00	-7.82187E+05	450.95	-2.04486E+06	38.146
2850.0	165.00	-7.73937E+05	453.87	-2.06748E+06	37.892
2900.0	165.00	-7.65687E+05	456.74	-2.09025E+06	37.648

Be

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	16.380	0.00000E+00	9.5000	-2832.4	0.49622
300.00	16.472	30.389	9.6016	-2850.1	0.49623
350.00	18.520	908.51	12.305	-3398.2	0.50714
400.00	19.965	1872.5	14.877	-4078.4	0.53256
450.00	21.061	2899.2	17.294	-4883.3	0.56682
500.00	21.942	3975.0	19.561	-5805.3	0.60646
550.00	22.685	5091.2	21.688	-6837.0	0.64931
600.00	23.335	6242.0	23.690	-7972.0	0.69400
650.00	23.922	7423.6	25.581	-9204.2	0.73964
700.00	24.463	8633.4	27.374	-10528.	0.78562
750.00	24.972	9869.4	29.079	-11940.	0.83156
800.00	25.458	11130.	30.707	-13435.	0.87720
850.00	25.927	12415.	32.264	-15010.	0.92236
900.00	26.383	13723.	33.759	-16660.	0.96692
950.00	26.831	15053.	35.198	-18385.	1.0108
1000.0	27.273	16406.	36.585	-20179.	1.0540
1050.0	27.711	17780.	37.926	-22042.	1.0965
1100.0	28.147	19177.	39.226	-23971.	1.1383
1150.0	28.581	20595.	40.486	-25964.	1.1793
1200.0	29.015	22035.	41.712	-28019.	1.2196
1250.0	29.450	23497.	42.905	-30135.	1.2592
1300.0	29.886	24980.	44.069	-32309.	1.2982
1350.0	30.323	26485.	45.205	-34541.	1.3364
1400.0	30.763	28012.	46.315	-36829.	1.3741
1450.0	31.205	29561.	47.403	-39172.	1.4111
1500.0	31.650	31133.	48.468	-41569.	1.4475
1527.0	31.892	31991.	49.035	-42886.	1.4670
1527.0	30.000	38840.	53.520	-42886.	1.4670
1550.0	30.000	39530.	53.969	-44122.	1.4869
1560.0	30.000	39830.	54.162	-44662.	1.4954
1560.0	28.788	47725.	59.222	-44662.	1.4954
1600.0	28.874	48878.	59.952	-47046.	1.5359
1650.0	28.981	50324.	60.843	-50066.	1.5849
1700.0	29.089	51776.	61.709	-53130.	1.6324
1750.0	29.196	53233.	62.554	-56236.	1.6785
1800.0	29.304	54696.	63.378	-59385.	1.7233
1850.0	29.411	56163.	64.182	-62574.	1.7667
1900.0	29.519	57637.	64.968	-65803.	1.8090
1950.0	29.626	59115.	65.736	-69070.	1.8501
2000.0	29.734	60599.	66.488	-72376.	1.8902
2050.0	29.841	62089.	67.223	-75719.	1.9293
2100.0	29.949	63583.	67.944	-79098.	1.9674
2150.0	30.056	65084.	68.650	-82513.	2.0046
2200.0	30.164	66589.	69.342	-85963.	2.0410
2250.0	30.271	68100.	70.021	-89447.	2.0765
2300.0	30.379	69616.	70.687	-92965.	2.1112
2350.0	30.486	71138.	71.342	-96516.	2.1452
2400.0	30.594	72665.	71.985	-1.00099E+05	2.1785
2450.0	30.701	74197.	72.617	-1.03714E+05	2.2112
2500.0	30.809	75735.	73.238	-1.07360E+05	2.2431
2550.0	30.916	77278.	73.849	-1.11038E+05	2.2745
2600.0	31.024	78827.	74.451	-1.14745E+05	2.3052
2650.0	31.132	80380.	75.043	-1.18482E+05	2.3354
2700.0	31.239	81940.	75.626	-1.22249E+05	2.3650
2750.0	31.347	83504.	76.200	-1.26045E+05	2.3941
2800.0	31.455	85074.	76.766	-1.29869E+05	2.4227
2850.0	31.563	86650.	77.323	-1.33721E+05	2.4508
2900.0	31.670	88231.	77.873	-1.37601E+05	2.4784
2950.0	31.778	89817.	78.415	-1.41508E+05	2.5056
3000.0	31.886	91408.	78.950	-1.45443E+05	2.5323

BeH2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.848	-19000.	24.100	-26185.	4.5875
300.00	29.959	-18945.	24.285	-26230.	4.5670
350.00	32.950	-17372.	29.128	-27567.	4.1140
400.00	35.933	-15650.	33.723	-29139.	3.8050
450.00	38.917	-13779.	38.127	-30936.	3.5908
500.00	41.907	-11758.	42.382	-32949.	3.4421

BeF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.866	-1.70624E+05	205.75	-2.31969E+05	40.639
300.00	29.888	-1.70569E+05	205.94	-2.32350E+05	40.455
350.00	30.505	-1.69059E+05	210.59	-2.42766E+05	36.230
400.00	31.128	-1.67518E+05	214.70	-2.53400E+05	33.090
450.00	31.734	-1.65947E+05	218.41	-2.64229E+05	30.670
500.00	32.310	-1.64345E+05	221.78	-2.75235E+05	28.753
550.00	32.849	-1.62716E+05	224.88	-2.86403E+05	27.200
600.00	33.347	-1.61061E+05	227.76	-2.97720E+05	25.918
650.00	33.801	-1.59382E+05	230.45	-3.09176E+05	24.845
700.00	34.209	-1.57682E+05	232.97	-3.20762E+05	23.935
750.00	34.570	-1.55962E+05	235.34	-3.32471E+05	23.155
800.00	34.881	-1.54225E+05	237.59	-3.44294E+05	22.480
850.00	35.188	-1.52474E+05	239.71	-3.56227E+05	21.891
900.00	35.450	-1.50707E+05	241.73	-3.68264E+05	21.373
950.00	35.675	-1.48929E+05	243.65	-3.80399E+05	20.915
1000.0	35.871	-1.47140E+05	245.49	-3.92627E+05	20.508
1050.0	36.044	-1.45342E+05	247.24	-4.04946E+05	20.144
1100.0	36.197	-1.43536E+05	248.92	-4.17350E+05	19.818
1150.0	36.334	-1.41723E+05	250.53	-4.29837E+05	19.523
1200.0	36.458	-1.39903E+05	252.08	-4.42403E+05	19.257
1250.0	36.570	-1.38077E+05	253.57	-4.55044E+05	19.015
1300.0	36.673	-1.36246E+05	255.01	-4.67759E+05	18.794
1350.0	36.767	-1.34410E+05	256.40	-4.80544E+05	18.593
1400.0	36.855	-1.32570E+05	257.73	-4.93398E+05	18.408
1450.0	36.936	-1.30725E+05	259.03	-5.06317E+05	18.239
1500.0	37.013	-1.28876E+05	260.28	-5.19300E+05	18.083
1550.0	37.084	-1.27024E+05	261.50	-5.32345E+05	17.939
1600.0	37.152	-1.25168E+05	262.68	-5.45449E+05	17.807
1650.0	37.216	-1.23308E+05	263.82	-5.58612E+05	17.684
1700.0	37.277	-1.21446E+05	264.93	-5.71831E+05	17.570
1750.0	37.336	-1.19581E+05	266.01	-5.85105E+05	17.464
1800.0	37.392	-1.17713E+05	267.07	-5.98432E+05	17.366
1850.0	37.446	-1.15842E+05	268.09	-6.11811E+05	17.274
1900.0	37.498	-1.13968E+05	269.09	-6.25240E+05	17.189
1950.0	37.548	-1.12092E+05	270.07	-6.38719E+05	17.109
2000.0	37.597	-1.10213E+05	271.02	-6.52246E+05	17.034
2050.0	37.644	-1.08332E+05	271.95	-6.65821E+05	16.965
2100.0	37.691	-1.06449E+05	272.85	-6.79441E+05	16.900
2150.0	37.736	-1.04563E+05	273.74	-6.93106E+05	16.839
2200.0	37.780	-1.02675E+05	274.61	-7.06814E+05	16.781
2250.0	37.823	-1.00785E+05	275.46	-7.20566E+05	16.728
2300.0	37.866	-98893.	276.29	-7.34360E+05	16.677
2350.0	37.908	-96999.	277.10	-7.48195E+05	16.630
2400.0	37.949	-95102.	277.90	-7.62070E+05	16.586
2450.0	37.990	-93204.	278.69	-7.75985E+05	16.544
2500.0	38.030	-91303.	279.45	-7.89938E+05	16.504
2550.0	38.069	-89401.	280.21	-8.03930E+05	16.467
2600.0	38.109	-87496.	280.95	-8.17959E+05	16.433
2650.0	38.148	-85590.	281.67	-8.32025E+05	16.400
2700.0	38.186	-83682.	282.39	-8.46126E+05	16.369
2750.0	38.224	-81771.	283.09	-8.60263E+05	16.340
2800.0	38.262	-79859.	283.78	-8.74435E+05	16.312
2850.0	38.300	-77945.	284.45	-8.88641E+05	16.287
2900.0	38.337	-76029.	285.12	-9.02880E+05	16.262
2950.0	38.375	-74111.	285.78	-9.17152E+05	16.239
3000.0	38.412	-72192.	286.42	-9.31457E+05	16.218

BeF2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	45.868	-7.96588E+05	227.28	-8.64351E+05	151.43
300.00	45.956	-7.96503E+05	227.56	-8.64772E+05	150.57
350.00	48.026	-7.94151E+05	234.81	-8.76334E+05	130.78
400.00	49.681	-7.91707E+05	241.33	-8.88241E+05	115.99
450.00	51.067	-7.89188E+05	247.27	-9.00458E+05	104.52
500.00	52.262	-7.86604E+05	252.71	-9.12959E+05	95.374
550.00	53.311	-7.83964E+05	257.74	-9.25722E+05	87.916
600.00	54.239	-7.81275E+05	262.42	-9.38727E+05	81.721
650.00	55.063	-7.78542E+05	266.80	-9.51959E+05	76.498
700.00	55.795	-7.75770E+05	270.90	-9.65403E+05	72.037
750.00	56.441	-7.72964E+05	274.78	-9.79045E+05	68.185
800.00	57.007	-7.70127E+05	278.44	-9.92877E+05	64.827
850.00	57.497	-7.67264E+05	281.91	-1.00689E+06	61.874
900.00	57.910	-7.64379E+05	285.21	-1.02106E+06	59.260
950.00	58.324	-7.61472E+05	288.35	-1.03540E+06	56.929
1000.0	58.679	-7.58547E+05	291.35	-1.04990E+06	54.840
1050.0	58.986	-7.55605E+05	294.22	-1.06454E+06	52.956
1100.0	59.254	-7.52649E+05	296.97	-1.07932E+06	51.251
1150.0	59.489	-7.49680E+05	299.61	-1.09423E+06	49.700
1200.0	59.696	-7.46701E+05	302.15	-1.10928E+06	48.284
1250.0	59.880	-7.43711E+05	304.59	-1.12445E+06	46.987
1300.0	60.044	-7.40713E+05	306.94	-1.13973E+06	45.794
1350.0	60.192	-7.37707E+05	309.21	-1.15514E+06	44.694
1400.0	60.325	-7.34694E+05	311.40	-1.17065E+06	43.676
1450.0	60.445	-7.31675E+05	313.52	-1.18628E+06	42.733
1500.0	60.555	-7.28650E+05	315.57	-1.20200E+06	41.856
1550.0	60.655	-7.25620E+05	317.56	-1.21783E+06	41.040
1600.0	60.746	-7.22585E+05	319.48	-1.23376E+06	40.277
1650.0	60.830	-7.19545E+05	321.35	-1.24978E+06	39.564
1700.0	60.908	-7.16502E+05	323.17	-1.26589E+06	38.895
1750.0	60.979	-7.13454E+05	324.94	-1.28210E+06	38.268
1800.0	61.046	-7.10404E+05	326.66	-1.29839E+06	37.677
1850.0	61.107	-7.07350E+05	328.33	-1.31476E+06	37.121
1900.0	61.165	-7.04293E+05	329.96	-1.33122E+06	36.597
1950.0	61.218	-7.01234E+05	331.55	-1.34776E+06	36.101
2000.0	61.268	-6.98171E+05	333.10	-1.36437E+06	35.633
2050.0	61.316	-6.95107E+05	334.61	-1.38107E+06	35.189
2100.0	61.360	-6.92040E+05	336.09	-1.39783E+06	34.768
2150.0	61.401	-6.88971E+05	337.54	-1.41467E+06	34.369
2200.0	61.441	-6.85900E+05	338.95	-1.43159E+06	33.989
2250.0	61.478	-6.82827E+05	340.33	-1.44857E+06	33.628
2300.0	61.513	-6.79752E+05	341.68	-1.46562E+06	33.284
2350.0	61.546	-6.76676E+05	343.00	-1.48274E+06	32.957
2400.0	61.577	-6.73597E+05	344.30	-1.49992E+06	32.644
2450.0	61.607	-6.70518E+05	345.57	-1.51717E+06	32.346
2500.0	61.636	-6.67437E+05	346.82	-1.53448E+06	32.060
2550.0	61.663	-6.64354E+05	348.04	-1.55185E+06	31.788
2600.0	61.688	-6.61271E+05	349.23	-1.56928E+06	31.526
2650.0	61.713	-6.58186E+05	350.41	-1.58677E+06	31.276
2700.0	61.736	-6.55099E+05	351.56	-1.60432E+06	31.037
2750.0	61.759	-6.52012E+05	352.70	-1.62193E+06	30.807
2800.0	61.780	-6.48923E+05	353.81	-1.63959E+06	30.586
2850.0	61.801	-6.45834E+05	354.90	-1.65731E+06	30.374
2900.0	61.820	-6.42743E+05	355.98	-1.67508E+06	30.171
2950.0	61.839	-6.39652E+05	357.03	-1.69290E+06	29.975
3000.0	61.857	-6.36560E+05	358.07	-1.71078E+06	29.787

BeCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	31.638	56693.	218.10	-8332.6	1.4598
300.00	31.680	56752.	218.29	-8736.3	1.5211
350.00	32.647	58361.	223.25	-19777.	2.9516
400.00	33.389	60013.	227.66	-31052.	4.0549
450.00	33.988	61697.	231.63	-42536.	4.9374
500.00	34.489	63410.	235.24	-54209.	5.6631
550.00	34.917	65145.	238.55	-66055.	6.2732
600.00	35.287	66901.	241.60	-78060.	6.7955
650.00	35.609	68673.	244.44	-90212.	7.2493
700.00	35.889	70461.	247.09	-1.02501E+05	7.6485
750.00	36.130	72261.	249.57	-1.14918E+05	8.0034
800.00	36.337	74073.	251.91	-1.27455E+05	8.3218
850.00	36.511	75895.	254.12	-1.40107E+05	8.6097
900.00	36.653	77724.	256.21	-1.52865E+05	8.8718
950.00	36.778	79560.	258.20	-1.65726E+05	9.1120
1000.0	36.890	81401.	260.08	-1.78683E+05	9.3332
1050.0	36.992	83248.	261.89	-1.91733E+05	9.5379
1100.0	37.084	85100.	263.61	-2.04871E+05	9.7282
1150.0	37.170	86957.	265.26	-2.18093E+05	9.9058
1200.0	37.249	88817.	266.84	-2.31396E+05	10.072
1250.0	37.323	90682.	268.37	-2.44776E+05	10.228
1300.0	37.393	92549.	269.83	-2.58231E+05	10.376
1350.0	37.459	94421.	271.24	-2.71758E+05	10.515
1400.0	37.523	96295.	272.61	-2.85355E+05	10.646
1450.0	37.583	98173.	273.92	-2.99018E+05	10.772
1500.0	37.641	1.00054E+05	275.20	-3.12747E+05	10.891
1550.0	37.698	1.01937E+05	276.44	-3.26538E+05	11.004
1600.0	37.752	1.03823E+05	277.63	-3.40389E+05	11.112
1650.0	37.805	1.05712E+05	278.80	-3.54300E+05	11.216
1700.0	37.857	1.07604E+05	279.92	-3.68268E+05	11.315
1750.0	37.908	1.09498E+05	281.02	-3.82292E+05	11.411
1800.0	37.957	1.11395E+05	282.09	-3.96370E+05	11.502
1850.0	38.006	1.13294E+05	283.13	-4.10501E+05	11.590
1900.0	38.054	1.15195E+05	284.15	-4.24683E+05	11.675
1950.0	38.102	1.17099E+05	285.14	-4.38915E+05	11.757
2000.0	38.148	1.19005E+05	286.10	-4.53196E+05	11.836
2050.0	38.195	1.20914E+05	287.04	-4.67525E+05	11.912
2100.0	38.241	1.22825E+05	287.96	-4.81900E+05	11.986
2150.0	38.286	1.24738E+05	288.86	-4.96321E+05	12.058
2200.0	38.331	1.26653E+05	289.75	-5.10786E+05	12.127
2250.0	38.376	1.28571E+05	290.61	-5.25295E+05	12.195
2300.0	38.421	1.30491E+05	291.45	-5.39847E+05	12.260
2350.0	38.465	1.32413E+05	292.28	-5.54440E+05	12.324
2400.0	38.509	1.34338E+05	293.09	-5.69074E+05	12.385
2450.0	38.553	1.36264E+05	293.88	-5.83749E+05	12.445
2500.0	38.597	1.38193E+05	294.66	-5.98462E+05	12.504
2550.0	38.641	1.40124E+05	295.43	-6.13215E+05	12.561
2600.0	38.685	1.42057E+05	296.18	-6.28005E+05	12.616
2650.0	38.729	1.43992E+05	296.91	-6.42832E+05	12.671
2700.0	38.772	1.45930E+05	297.64	-6.57696E+05	12.724
2750.0	38.816	1.47870E+05	298.35	-6.72596E+05	12.775
2800.0	38.860	1.49811E+05	299.05	-6.87531E+05	12.826
2850.0	38.903	1.51756E+05	299.74	-7.02501E+05	12.875
2900.0	38.947	1.53702E+05	300.42	-7.17505E+05	12.923
2950.0	38.990	1.55650E+05	301.08	-7.32542E+05	12.971
3000.0	39.034	1.57601E+05	301.74	-7.47613E+05	13.017

BeCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	51.031	-3.61539E+05	250.26	-4.36153E+05	76.410
300.00	51.109	-3.61445E+05	250.57	-4.36617E+05	76.020
350.00	52.884	-3.58842E+05	258.59	-4.49350E+05	67.060
400.00	54.230	-3.56163E+05	265.75	-4.62462E+05	60.390
450.00	55.307	-3.53424E+05	272.20	-4.75913E+05	55.241
500.00	56.200	-3.50636E+05	278.07	-4.89672E+05	51.154
550.00	56.958	-3.47806E+05	283.47	-5.03712E+05	47.837
600.00	57.609	-3.44942E+05	288.45	-5.18012E+05	45.096
650.00	58.172	-3.42047E+05	293.08	-5.32551E+05	42.795
700.00	58.658	-3.39126E+05	297.41	-5.47315E+05	40.840
750.00	59.076	-3.36182E+05	301.47	-5.62288E+05	39.160
800.00	59.432	-3.33219E+05	305.30	-5.77458E+05	37.703
850.00	59.730	-3.30240E+05	308.91	-5.92814E+05	36.429
900.00	59.970	-3.27247E+05	312.33	-6.08346E+05	35.307
950.00	60.201	-3.24243E+05	315.58	-6.24045E+05	34.312
1000.0	60.400	-3.21227E+05	318.67	-6.39902E+05	33.424
1050.0	60.571	-3.18203E+05	321.63	-6.55910E+05	32.629
1100.0	60.720	-3.15171E+05	324.45	-6.72062E+05	31.913
1150.0	60.851	-3.12131E+05	327.15	-6.88353E+05	31.265
1200.0	60.966	-3.09086E+05	329.74	-7.04775E+05	30.677
1250.0	61.067	-3.06035E+05	332.23	-7.21325E+05	30.142
1300.0	61.158	-3.02979E+05	334.63	-7.37997E+05	29.652
1350.0	61.239	-2.99919E+05	336.94	-7.54787E+05	29.204
1400.0	61.311	-2.96856E+05	339.17	-7.71689E+05	28.791
1450.0	61.377	-2.93788E+05	341.32	-7.88702E+05	28.411
1500.0	61.437	-2.90718E+05	343.40	-8.05820E+05	28.060
1550.0	61.491	-2.87645E+05	345.42	-8.23041E+05	27.736
1600.0	61.540	-2.84569E+05	347.37	-8.40361E+05	27.434
1650.0	61.585	-2.81491E+05	349.26	-8.57777E+05	27.154
1700.0	61.627	-2.78411E+05	351.10	-8.75286E+05	26.894
1750.0	61.665	-2.75328E+05	352.89	-8.92886E+05	26.651
1800.0	61.700	-2.72244E+05	354.63	-9.10575E+05	26.424
1850.0	61.733	-2.69158E+05	356.32	-9.28349E+05	26.211
1900.0	61.763	-2.66071E+05	357.97	-9.46206E+05	26.012
1950.0	61.791	-2.62982E+05	359.57	-9.64144E+05	25.826
2000.0	61.817	-2.59892E+05	361.14	-9.82162E+05	25.651
2050.0	61.842	-2.56800E+05	362.66	-1.00026E+06	25.486
2100.0	61.864	-2.53708E+05	364.15	-1.01843E+06	25.331
2150.0	61.886	-2.50614E+05	365.61	-1.03667E+06	25.185
2200.0	61.906	-2.47519E+05	367.03	-1.05499E+06	25.048
2250.0	61.925	-2.44423E+05	368.42	-1.07337E+06	24.918
2300.0	61.943	-2.41327E+05	369.78	-1.09183E+06	24.796
2350.0	61.959	-2.38229E+05	371.12	-1.11035E+06	24.680
2400.0	61.975	-2.35131E+05	372.42	-1.12894E+06	24.570
2450.0	61.990	-2.32032E+05	373.70	-1.14759E+06	24.466
2500.0	62.005	-2.28932E+05	374.95	-1.16631E+06	24.368
2550.0	62.018	-2.25831E+05	376.18	-1.18509E+06	24.275
2600.0	62.031	-2.22730E+05	377.38	-1.20393E+06	24.187
2650.0	62.043	-2.19628E+05	378.57	-1.22283E+06	24.103
2700.0	62.054	-2.16526E+05	379.73	-1.24178E+06	24.023
2750.0	62.065	-2.13423E+05	380.86	-1.26080E+06	23.948
2800.0	62.076	-2.10319E+05	381.98	-1.27987E+06	23.876
2850.0	62.086	-2.07215E+05	383.08	-1.29900E+06	23.807
2900.0	62.095	-2.04111E+05	384.16	-1.31818E+06	23.742
2950.0	62.104	-2.01006E+05	385.22	-1.33741E+06	23.681
3000.0	62.113	-1.97900E+05	386.27	-1.35670E+06	23.622

(BeCl2)2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	105.47	-8.19621E+05	366.33	-9.28843E+05	162.73
300.00	105.71	-8.19426E+05	366.99	-9.29522E+05	161.84
350.00	111.03	-8.13999E+05	383.71	-9.48296E+05	141.52
400.00	114.83	-8.08348E+05	398.79	-9.67865E+05	126.39
450.00	117.70	-8.02532E+05	412.49	-9.88152E+05	114.70
500.00	119.97	-7.96588E+05	425.01	-1.00909E+06	105.42
550.00	121.82	-7.90541E+05	436.54	-1.03064E+06	97.879
600.00	123.35	-7.84411E+05	447.21	-1.05273E+06	91.646
650.00	124.63	-7.78210E+05	457.13	-1.07535E+06	86.414
700.00	125.71	-7.71951E+05	466.41	-1.09844E+06	81.964
750.00	126.61	-7.65643E+05	475.11	-1.12198E+06	78.139
800.00	127.36	-7.59293E+05	483.31	-1.14594E+06	74.820
850.00	127.98	-7.52909E+05	491.05	-1.17030E+06	71.916
900.00	128.46	-7.46497E+05	498.38	-1.19504E+06	69.356
950.00	128.92	-7.40062E+05	505.34	-1.22013E+06	67.086
1000.0	129.30	-7.33607E+05	511.96	-1.24556E+06	65.060
1050.0	129.64	-7.27133E+05	518.28	-1.27132E+06	63.243
1100.0	129.93	-7.20643E+05	524.31	-1.29739E+06	61.606
1150.0	130.19	-7.14140E+05	530.09	-1.32375E+06	60.125
1200.0	130.41	-7.07625E+05	535.64	-1.35039E+06	58.780
1250.0	130.61	-7.01100E+05	540.97	-1.37731E+06	57.553
1300.0	130.78	-6.94565E+05	546.09	-1.40449E+06	56.432
1350.0	130.94	-6.88021E+05	551.03	-1.43192E+06	55.403
1400.0	131.08	-6.81471E+05	555.80	-1.45959E+06	54.456
1450.0	131.21	-6.74913E+05	560.40	-1.48749E+06	53.584
1500.0	131.32	-6.68350E+05	564.85	-1.51562E+06	52.777
1550.0	131.43	-6.61781E+05	569.16	-1.54398E+06	52.030
1600.0	131.52	-6.55208E+05	573.33	-1.57254E+06	51.337
1650.0	131.61	-6.48629E+05	577.38	-1.60131E+06	50.692
1700.0	131.69	-6.42047E+05	581.31	-1.63027E+06	50.091
1750.0	131.76	-6.35461E+05	585.13	-1.65944E+06	49.530
1800.0	131.83	-6.28871E+05	588.84	-1.68878E+06	49.006
1850.0	131.89	-6.22278E+05	592.45	-1.71832E+06	48.515
1900.0	131.95	-6.15682E+05	595.97	-1.74803E+06	48.055
1950.0	132.00	-6.09083E+05	599.40	-1.77791E+06	47.624
2000.0	132.05	-6.02482E+05	602.74	-1.80797E+06	47.218
2050.0	132.09	-5.95879E+05	606.00	-1.83819E+06	46.836
2100.0	132.14	-5.89273E+05	609.19	-1.86857E+06	46.477
2150.0	132.18	-5.82665E+05	612.30	-1.89910E+06	46.138
2200.0	132.21	-5.76055E+05	615.34	-1.92979E+06	45.818
2250.0	132.25	-5.69444E+05	618.31	-1.96064E+06	45.516
2300.0	132.28	-5.62830E+05	621.21	-1.99162E+06	45.230
2350.0	132.31	-5.56216E+05	624.06	-2.02276E+06	44.960
2400.0	132.34	-5.49599E+05	626.85	-2.05403E+06	44.704
2450.0	132.37	-5.42981E+05	629.58	-2.08544E+06	44.461
2500.0	132.39	-5.36362E+05	632.25	-2.11699E+06	44.231
2550.0	132.42	-5.29742E+05	634.87	-2.14866E+06	44.013
2600.0	132.44	-5.23120E+05	637.44	-2.18047E+06	43.805
2650.0	132.46	-5.16498E+05	639.97	-2.21241E+06	43.608
2700.0	132.48	-5.09874E+05	642.44	-2.24447E+06	43.421
2750.0	132.50	-5.03249E+05	644.87	-2.27665E+06	43.243
2800.0	132.52	-4.96624E+05	647.26	-2.30896E+06	43.073
2850.0	132.54	-4.89997E+05	649.61	-2.34138E+06	42.912
2900.0	132.56	-4.83370E+05	651.91	-2.37392E+06	42.758
2950.0	132.57	-4.76741E+05	654.18	-2.40657E+06	42.611
3000.0	132.59	-4.70112E+05	656.41	-2.43933E+06	42.471

BeBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.586	1.32447E+05	229.59	63996.	-11.211
300.00	32.628	1.32507E+05	229.79	63571.	-11.068
350.00	33.582	1.34164E+05	234.89	51951.	-7.7531
400.00	34.272	1.35861E+05	239.43	40091.	-5.2352
450.00	34.804	1.37589E+05	243.49	28016.	-3.2519
500.00	35.231	1.39340E+05	247.18	15748.	-1.6451
550.00	35.586	1.41110E+05	250.56	3302.9	-0.31368
600.00	35.886	1.42897E+05	253.67	-9303.8	0.80995
650.00	36.144	1.44698E+05	256.55	-22060.	1.7727
700.00	36.368	1.46511E+05	259.24	-34956.	2.6084
750.00	36.562	1.48335E+05	261.75	-47981.	3.3416
800.00	36.731	1.50167E+05	264.12	-61129.	3.9912
850.00	36.876	1.52007E+05	266.35	-74391.	4.5714
900.00	37.001	1.53854E+05	268.46	-87762.	5.0934
950.00	37.106	1.55707E+05	270.47	-1.01235E+05	5.5662
1000.0	37.192	1.57565E+05	272.37	-1.14807E+05	5.9967
1050.0	37.264	1.59426E+05	274.19	-1.28471E+05	6.3909
1100.0	37.333	1.61291E+05	275.92	-1.42224E+05	6.7535
1150.0	37.400	1.63159E+05	277.58	-1.56062E+05	7.0884
1200.0	37.464	1.65031E+05	279.18	-1.69981E+05	7.3989
1250.0	37.527	1.66906E+05	280.71	-1.83979E+05	7.6879
1300.0	37.589	1.68784E+05	282.18	-1.98051E+05	7.9576
1350.0	37.649	1.70665E+05	283.60	-2.12196E+05	8.2101
1400.0	37.708	1.72549E+05	284.97	-2.26410E+05	8.4473
1450.0	37.766	1.74435E+05	286.29	-2.40692E+05	8.6705
1500.0	37.823	1.76325E+05	287.58	-2.55039E+05	8.8810
1550.0	37.879	1.78218E+05	288.82	-2.69449E+05	9.0801
1600.0	37.934	1.80113E+05	290.02	-2.83920E+05	9.2688
1650.0	37.989	1.82011E+05	291.19	-2.98451E+05	9.4479
1700.0	38.043	1.83912E+05	292.32	-3.13039E+05	9.6183
1750.0	38.096	1.85815E+05	293.43	-3.27683E+05	9.7805
1800.0	38.149	1.87722E+05	294.50	-3.42381E+05	9.9354
1850.0	38.202	1.89630E+05	295.55	-3.57132E+05	10.083
1900.0	38.253	1.91542E+05	296.57	-3.71935E+05	10.225
1950.0	38.305	1.93456E+05	297.56	-3.86789E+05	10.361
2000.0	38.356	1.95372E+05	298.53	-4.01691E+05	10.491
2050.0	38.406	1.97291E+05	299.48	-4.16641E+05	10.616
2100.0	38.457	1.99213E+05	300.41	-4.31639E+05	10.736
2150.0	38.506	2.01137E+05	301.31	-4.46681E+05	10.852
2200.0	38.556	2.03063E+05	302.20	-4.61769E+05	10.964
2250.0	38.605	2.04992E+05	303.06	-4.76901E+05	11.071
2300.0	38.654	2.06924E+05	303.91	-4.92075E+05	11.175
2350.0	38.702	2.08858E+05	304.74	-5.07292E+05	11.276
2400.0	38.750	2.10794E+05	305.56	-5.22550E+05	11.373
2450.0	38.798	2.12733E+05	306.36	-5.37848E+05	11.467
2500.0	38.845	2.14674E+05	307.14	-5.53185E+05	11.558
2550.0	38.893	2.16617E+05	307.91	-5.68562E+05	11.646
2600.0	38.940	2.18563E+05	308.67	-5.83976E+05	11.732
2650.0	38.986	2.20511E+05	309.41	-5.99428E+05	11.815
2700.0	39.033	2.22462E+05	310.14	-6.14917E+05	11.896
2750.0	39.079	2.24415E+05	310.86	-6.30442E+05	11.975
2800.0	39.124	2.26370E+05	311.56	-6.46003E+05	12.051
2850.0	39.170	2.28327E+05	312.25	-6.61598E+05	12.125
2900.0	39.215	2.30287E+05	312.94	-6.77228E+05	12.198
2950.0	39.260	2.32249E+05	313.61	-6.92892E+05	12.268
3000.0	39.305	2.34213E+05	314.27	-7.08588E+05	12.337

BeBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.232	-2.34063E+05	273.24	-3.15528E+05	55.278
300.00	53.298	-2.33964E+05	273.57	-3.16034E+05	55.025
350.00	54.809	-2.31260E+05	281.90	-3.29925E+05	49.237
400.00	55.931	-2.28490E+05	289.30	-3.44209E+05	44.948
450.00	56.813	-2.25671E+05	295.94	-3.58842E+05	41.652
500.00	57.535	-2.22811E+05	301.96	-3.73792E+05	39.049
550.00	58.141	-2.19919E+05	307.47	-3.89030E+05	36.946
600.00	58.660	-2.16999E+05	312.56	-4.04532E+05	35.217
650.00	59.107	-2.14054E+05	317.27	-4.20279E+05	33.773
700.00	59.494	-2.11089E+05	321.66	-4.36254E+05	32.553
750.00	59.829	-2.08106E+05	325.78	-4.52441E+05	31.510
800.00	60.117	-2.05107E+05	329.65	-4.68828E+05	30.611
850.00	60.361	-2.02095E+05	333.30	-4.85403E+05	29.828
900.00	60.565	-1.99071E+05	336.76	-5.02155E+05	29.144
950.00	60.730	-1.96039E+05	340.04	-5.19076E+05	28.540
1000.0	60.857	-1.92999E+05	343.16	-5.36156E+05	28.005
1050.0	60.991	-1.89953E+05	346.13	-5.53389E+05	27.529
1100.0	61.107	-1.86900E+05	348.97	-5.70767E+05	27.103
1150.0	61.209	-1.83842E+05	351.69	-5.88284E+05	26.720
1200.0	61.299	-1.80779E+05	354.30	-6.05934E+05	26.375
1250.0	61.378	-1.77713E+05	356.80	-6.23712E+05	26.063
1300.0	61.448	-1.74642E+05	359.21	-6.41612E+05	25.780
1350.0	61.511	-1.71568E+05	361.53	-6.59631E+05	25.522
1400.0	61.568	-1.68491E+05	363.77	-6.77764E+05	25.287
1450.0	61.618	-1.65411E+05	365.93	-6.96007E+05	25.072
1500.0	61.664	-1.62329E+05	368.02	-7.14355E+05	24.875
1550.0	61.706	-1.59245E+05	370.04	-7.32807E+05	24.695
1600.0	61.744	-1.56158E+05	372.00	-7.51358E+05	24.529
1650.0	61.779	-1.53070E+05	373.90	-7.70006E+05	24.376
1700.0	61.811	-1.49981E+05	375.75	-7.88748E+05	24.235
1750.0	61.840	-1.46889E+05	377.54	-8.07580E+05	24.104
1800.0	61.867	-1.43797E+05	379.28	-8.26501E+05	23.984
1850.0	61.892	-1.40703E+05	380.98	-8.45507E+05	23.872
1900.0	61.915	-1.37608E+05	382.63	-8.64597E+05	23.769
1950.0	61.936	-1.34511E+05	384.23	-8.83769E+05	23.673
2000.0	61.956	-1.31414E+05	385.80	-9.03020E+05	23.584
2050.0	61.974	-1.28316E+05	387.33	-9.22349E+05	23.501
2100.0	61.991	-1.25217E+05	388.83	-9.41753E+05	23.424
2150.0	62.008	-1.22117E+05	390.29	-9.61231E+05	23.353
2200.0	62.023	-1.19016E+05	391.71	-9.80781E+05	23.286
2250.0	62.037	-1.15914E+05	393.11	-1.00040E+06	23.224
2300.0	62.050	-1.12812E+05	394.47	-1.02009E+06	23.166
2350.0	62.063	-1.09709E+05	395.80	-1.03985E+06	23.113
2400.0	62.074	-1.06606E+05	397.11	-1.05967E+06	23.063
2450.0	62.086	-1.03502E+05	398.39	-1.07956E+06	23.016
2500.0	62.096	-1.00397E+05	399.64	-1.09951E+06	22.972
2550.0	62.106	-97292.	400.87	-1.11952E+06	22.932
2600.0	62.115	-94187.	402.08	-1.13960E+06	22.894
2650.0	62.124	-91081.	403.26	-1.15973E+06	22.859
2700.0	62.133	-87974.	404.43	-1.17992E+06	22.826
2750.0	62.141	-84868.	405.57	-1.20017E+06	22.796
2800.0	62.149	-81760.	406.69	-1.22048E+06	22.768
2850.0	62.156	-78653.	407.79	-1.24084E+06	22.741
2900.0	62.163	-75545.	408.87	-1.26126E+06	22.717
2950.0	62.169	-72436.	409.93	-1.28173E+06	22.695
3000.0	62.176	-69328.	410.97	-1.30225E+06	22.674

BeI<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.476	1.69992E+05	237.29	99243.	-17.387
300.00	33.516	1.70054E+05	237.50	98804.	-17.203
350.00	34.401	1.71753E+05	242.74	86795.	-12.953
400.00	35.014	1.73489E+05	247.37	74540.	-9.7337
450.00	35.469	1.75252E+05	251.52	62066.	-7.2043
500.00	35.822	1.77034E+05	255.28	49394.	-5.1601
550.00	36.107	1.78833E+05	258.71	36543.	-3.4705
600.00	36.344	1.80644E+05	261.86	23528.	-2.0483
650.00	36.546	1.82467E+05	264.78	10361.	-0.83263
700.00	36.721	1.84299E+05	267.49	-2946.2	0.21984
750.00	36.874	1.86138E+05	270.03	-16385.	1.1411
800.00	37.009	1.87986E+05	272.42	-29947.	1.9553
850.00	37.130	1.89839E+05	274.66	-43624.	2.6808
900.00	37.237	1.91698E+05	276.79	-57411.	3.3320
950.00	37.334	1.93563E+05	278.80	-71301.	3.9203
1000.0	37.420	1.95432E+05	280.72	-85290.	4.4550
1050.0	37.497	1.97305E+05	282.55	-99372.	4.9434
1100.0	37.565	1.99181E+05	284.29	-1.13543E+05	5.3916
1150.0	37.625	2.01061E+05	285.97	-1.27800E+05	5.8047
1200.0	37.678	2.02944E+05	287.57	-1.42139E+05	6.1870
1250.0	37.723	2.04829E+05	289.11	-1.56556E+05	6.5420
1300.0	37.762	2.06716E+05	290.59	-1.71049E+05	6.8726
1350.0	37.793	2.08605E+05	292.01	-1.85614E+05	7.1817
1400.0	37.853	2.10496E+05	293.39	-2.00249E+05	7.4712
1450.0	37.907	2.12390E+05	294.72	-2.14952E+05	7.7432
1500.0	37.957	2.14287E+05	296.00	-2.29720E+05	7.9994
1550.0	38.002	2.16186E+05	297.25	-2.44552E+05	8.2411
1600.0	38.044	2.18087E+05	298.46	-2.59445E+05	8.4698
1650.0	38.083	2.19990E+05	299.63	-2.74397E+05	8.6865
1700.0	38.120	2.21895E+05	300.77	-2.89407E+05	8.8922
1750.0	38.155	2.23802E+05	301.87	-3.04473E+05	9.0878
1800.0	38.187	2.25710E+05	302.95	-3.19594E+05	9.2741
1850.0	38.219	2.27621E+05	303.99	-3.34767E+05	9.4519
1900.0	38.249	2.29532E+05	305.01	-3.49992E+05	9.6217
1950.0	38.278	2.31445E+05	306.01	-3.65268E+05	9.7842
2000.0	38.306	2.33360E+05	306.98	-3.80593E+05	9.9398
2050.0	38.333	2.35276E+05	307.92	-3.95965E+05	10.089
2100.0	38.361	2.37193E+05	308.85	-4.11385E+05	10.232
2150.0	38.387	2.39112E+05	309.75	-4.26850E+05	10.370
2200.0	38.414	2.41032E+05	310.63	-4.42359E+05	10.503
2250.0	38.440	2.42953E+05	311.50	-4.57913E+05	10.630
2300.0	38.466	2.44876E+05	312.34	-4.73509E+05	10.753
2350.0	38.493	2.46800E+05	313.17	-4.89146E+05	10.872
2400.0	38.519	2.48725E+05	313.98	-5.04825E+05	10.987
2450.0	38.545	2.50652E+05	314.77	-5.20544E+05	11.098
2500.0	38.572	2.52580E+05	315.55	-5.36302E+05	11.205
2550.0	38.599	2.54509E+05	316.32	-5.52099E+05	11.309
2600.0	38.627	2.56440E+05	317.07	-5.67934E+05	11.410
2650.0	38.655	2.58372E+05	317.80	-5.83806E+05	11.507
2700.0	38.683	2.60305E+05	318.53	-5.99714E+05	11.602
2750.0	38.711	2.62240E+05	319.24	-6.15658E+05	11.694
2800.0	38.741	2.64176E+05	319.93	-6.31637E+05	11.783
2850.0	38.770	2.66114E+05	320.62	-6.47651E+05	11.870
2900.0	38.800	2.68054E+05	321.29	-6.63699E+05	11.954
2950.0	38.831	2.69994E+05	321.96	-6.79780E+05	12.036
3000.0	38.863	2.71937E+05	322.61	-6.95894E+05	12.116

BeI2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.940	-64015.	291.52	-1.50932E+05	26.442
300.00	54.998	-63914.	291.86	-1.51472E+05	26.373
350.00	56.305	-61129.	300.44	-1.66284E+05	24.816
400.00	57.253	-58289.	308.03	-1.81500E+05	23.701
450.00	57.984	-55407.	314.81	-1.97074E+05	22.875
500.00	58.574	-52493.	320.95	-2.12970E+05	22.248
550.00	59.063	-49552.	326.56	-2.29160E+05	21.763
600.00	59.478	-46588.	331.72	-2.45619E+05	21.382
650.00	59.834	-43605.	336.49	-2.62326E+05	21.080
700.00	60.143	-40605.	340.94	-2.79263E+05	20.838
750.00	60.411	-37591.	345.10	-2.96415E+05	20.644
800.00	60.643	-34565.	349.00	-3.13768E+05	20.486
850.00	60.843	-31527.	352.69	-3.31311E+05	20.359
900.00	61.014	-28481.	356.17	-3.49034E+05	20.257
950.00	61.157	-25426.	359.47	-3.66925E+05	20.174
1000.0	61.274	-22366.	362.61	-3.84978E+05	20.109
1050.0	61.366	-19299.	365.60	-4.03184E+05	20.057
1100.0	61.434	-16229.	368.46	-4.21536E+05	20.017
1150.0	61.478	-13156.	371.19	-4.40028E+05	19.986
1200.0	61.548	-10081.	373.81	-4.58654E+05	19.964
1250.0	61.610	-7001.7	376.32	-4.77408E+05	19.949
1300.0	61.665	-3919.8	378.74	-4.96285E+05	19.940
1350.0	61.714	-835.31	381.07	-5.15280E+05	19.937
1400.0	61.758	2251.5	383.32	-5.34390E+05	19.938
1450.0	61.798	5340.5	385.48	-5.53611E+05	19.943
1500.0	61.834	8431.3	387.58	-5.72937E+05	19.951
1550.0	61.866	11524.	389.61	-5.92367E+05	19.962
1600.0	61.895	14618.	391.57	-6.11897E+05	19.976
1650.0	61.922	17713.	393.48	-6.31524E+05	19.992
1700.0	61.947	20810.	395.33	-6.51244E+05	20.010
1750.0	61.969	23908.	397.12	-6.71055E+05	20.029
1800.0	61.990	27007.	398.87	-6.90955E+05	20.050
1850.0	62.009	30107.	400.57	-7.10941E+05	20.073
1900.0	62.027	33208.	402.22	-7.31011E+05	20.096
1950.0	62.043	36309.	403.83	-7.51163E+05	20.121
2000.0	62.058	39412.	405.40	-7.71394E+05	20.146
2050.0	62.072	42515.	406.94	-7.91702E+05	20.172
2100.0	62.085	45619.	408.43	-8.12087E+05	20.199
2150.0	62.097	48724.	409.89	-8.32545E+05	20.226
2200.0	62.109	51829.	411.32	-8.53075E+05	20.254
2250.0	62.119	54935.	412.72	-8.73676E+05	20.282
2300.0	62.129	58041.	414.08	-8.94346E+05	20.311
2350.0	62.139	61148.	415.42	-9.15084E+05	20.340
2400.0	62.148	64255.	416.73	-9.35888E+05	20.369
2450.0	62.156	67362.	418.01	-9.56756E+05	20.398
2500.0	62.164	70470.	419.26	-9.77688E+05	20.427
2550.0	62.171	73579.	420.49	-9.98682E+05	20.457
2600.0	62.178	76687.	421.70	-1.01974E+06	20.486
2650.0	62.185	79797.	422.89	-1.04085E+06	20.516
2700.0	62.191	82906.	424.05	-1.06203E+06	20.546
2750.0	62.197	86016.	425.19	-1.08326E+06	20.575
2800.0	62.203	89126.	426.31	-1.10454E+06	20.605
2850.0	62.208	92236.	427.41	-1.12589E+06	20.635
2900.0	62.213	95346.	428.49	-1.14728E+06	20.664
2950.0	62.218	98457.	429.56	-1.16874E+06	20.694
3000.0	62.223	1.01568E+05	430.60	-1.19024E+06	20.723

BeO

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.564	-6.09400E+05	13.770	-6.13506E+05	107.48
300.00	25.766	-6.09353E+05	13.929	-6.13531E+05	106.82
350.00	30.366	-6.07943E+05	18.265	-6.14336E+05	91.682
400.00	33.805	-6.06335E+05	22.554	-6.15357E+05	80.355
450.00	36.522	-6.04574E+05	26.699	-6.16589E+05	71.570
500.00	38.748	-6.02691E+05	30.665	-6.18024E+05	64.563
550.00	40.615	-6.00706E+05	34.449	-6.19652E+05	58.848
600.00	42.200	-5.98634E+05	38.052	-6.21466E+05	54.102
650.00	43.554	-5.96489E+05	41.485	-6.23455E+05	50.100
700.00	44.710	-5.94282E+05	44.756	-6.25611E+05	46.683
750.00	45.688	-5.92021E+05	47.875	-6.27928E+05	43.732
800.00	46.503	-5.89716E+05	50.851	-6.30397E+05	41.160
850.00	47.195	-5.87373E+05	53.692	-6.33011E+05	38.899
900.00	47.742	-5.84999E+05	56.405	-6.35764E+05	36.898
950.00	48.189	-5.82600E+05	58.999	-6.38649E+05	35.114
1000.0	48.570	-5.80181E+05	61.481	-6.41662E+05	33.516
1050.0	48.910	-5.77744E+05	63.859	-6.44796E+05	32.076
1100.0	49.230	-5.75290E+05	66.141	-6.48046E+05	30.772
1150.0	49.545	-5.72821E+05	68.337	-6.51408E+05	29.587
1200.0	49.868	-5.70336E+05	70.452	-6.54878E+05	28.505
1250.0	50.209	-5.67834E+05	72.495	-6.58452E+05	27.515
1300.0	50.576	-5.65314E+05	74.471	-6.62127E+05	26.604
1350.0	50.976	-5.62776E+05	76.387	-6.65898E+05	25.765
1400.0	51.415	-5.60216E+05	78.249	-6.69764E+05	24.989
1450.0	51.898	-5.57633E+05	80.061	-6.73722E+05	24.269
1500.0	52.430	-5.55026E+05	81.829	-6.77770E+05	23.601
1550.0	52.950	-5.52391E+05	83.557	-6.81905E+05	22.979
1600.0	53.474	-5.49731E+05	85.246	-6.86125E+05	22.399
1650.0	54.000	-5.47044E+05	86.900	-6.90429E+05	21.857
1700.0	54.523	-5.44331E+05	88.520	-6.94814E+05	21.349
1750.0	55.041	-5.41591E+05	90.108	-6.99280E+05	20.872
1800.0	55.551	-5.38827E+05	91.666	-7.03825E+05	20.424
1850.0	56.051	-5.36037E+05	93.194	-7.08446E+05	20.002
1900.0	56.539	-5.33222E+05	94.696	-7.13144E+05	19.605
1950.0	57.013	-5.30383E+05	96.170	-7.17915E+05	19.230
2000.0	57.472	-5.27521E+05	97.620	-7.22760E+05	18.876
2050.0	57.915	-5.24636E+05	99.044	-7.27677E+05	18.541
2100.0	58.341	-5.21729E+05	100.45	-7.32664E+05	18.224
2150.0	58.748	-5.18802E+05	101.82	-7.37721E+05	17.923
2200.0	59.136	-5.15855E+05	103.18	-7.42846E+05	17.637
2250.0	59.504	-5.12889E+05	104.51	-7.48038E+05	17.366
2300.0	59.851	-5.09905E+05	105.82	-7.53297E+05	17.107
2350.0	60.176	-5.06904E+05	107.11	-7.58620E+05	16.862
2373.0	60.319	-5.05519E+05	107.70	-7.61091E+05	16.753
2373.0	60.000	-5.05254E+05	107.81	-7.61091E+05	16.753
2400.0	60.000	-5.03743E+05	108.44	-7.64010E+05	16.628
2450.0	60.000	-5.00943E+05	109.60	-7.69461E+05	16.405
2500.0	60.000	-4.98143E+05	110.73	-7.74970E+05	16.192
2550.0	60.000	-4.95343E+05	111.84	-7.80534E+05	15.988
2600.0	60.000	-4.92543E+05	112.93	-7.86153E+05	15.794
2650.0	60.000	-4.89743E+05	113.99	-7.91826E+05	15.607
2700.0	60.000	-4.86943E+05	115.04	-7.97552E+05	15.429
2750.0	60.000	-4.84143E+05	116.07	-8.03330E+05	15.258
2800.0	60.000	-4.81343E+05	117.08	-8.09159E+05	15.095
2850.0	60.000	-4.78543E+05	118.07	-8.15038E+05	14.938
2851.0	60.000	-4.78487E+05	118.09	-8.15156E+05	14.935
2851.0	84.000	-3.92486E+05	148.25	-8.15156E+05	14.935
2900.0	84.000	-3.88371E+05	149.68	-8.22455E+05	14.814
2950.0	84.000	-3.84171E+05	151.12	-8.29975E+05	14.696
3000.0	84.000	-3.79971E+05	152.53	-8.37567E+05	14.583

Be(OH)2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	65.668	-9.02907E+05	31.309	-9.12242E+05	159.82
300.00	66.088	-9.02785E+05	31.717	-9.12300E+05	158.84
350.00	75.697	-8.99228E+05	42.664	-9.14160E+05	136.43
400.00	82.899	-8.95255E+05	53.264	-9.16561E+05	119.69
450.00	88.520	-8.90964E+05	63.365	-9.19479E+05	106.73
500.00	92.994	-8.86422E+05	72.932	-9.22888E+05	96.411
550.00	96.504	-8.81682E+05	81.966	-9.26763E+05	88.014
600.00	99.392	-8.76782E+05	90.490	-9.31076E+05	81.055
650.00	101.84	-8.71750E+05	98.545	-9.35804E+05	75.200
700.00	103.95	-8.66604E+05	106.17	-9.40924E+05	70.211
750.00	105.82	-8.61359E+05	113.41	-9.46415E+05	65.913
800.00	107.49	-8.56025E+05	120.29	-9.52259E+05	62.175
850.00	109.01	-8.50612E+05	126.85	-9.58438E+05	58.897
900.00	110.41	-8.45126E+05	133.13	-9.64939E+05	56.002
950.00	111.70	-8.39573E+05	139.13	-9.71747E+05	53.429
1000.0	112.90	-8.33958E+05	144.89	-9.78848E+05	51.128

Be(OH)₂<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	63.417	-6.76553E+05	233.97	-7.46310E+05	130.75
300.00	63.652	-6.76435E+05	234.36	-7.46743E+05	130.02
350.00	68.960	-6.73113E+05	244.59	-7.58720E+05	113.23
400.00	72.888	-6.69562E+05	254.07	-7.71190E+05	100.70
450.00	75.985	-6.65837E+05	262.84	-7.84115E+05	91.015
500.00	78.541	-6.61972E+05	270.98	-7.97463E+05	83.308
550.00	80.721	-6.57990E+05	278.57	-8.11204E+05	77.040
600.00	82.622	-6.53905E+05	285.68	-8.25312E+05	71.848
650.00	84.307	-6.49731E+05	292.36	-8.39765E+05	67.483
700.00	85.818	-6.45477E+05	298.66	-8.54542E+05	63.765
750.00	87.181	-6.41152E+05	304.63	-8.69626E+05	60.565
800.00	88.417	-6.36761E+05	310.30	-8.85000E+05	57.783
850.00	89.539	-6.32312E+05	315.69	-9.00651E+05	55.346
900.00	90.557	-6.27809E+05	320.84	-9.16565E+05	53.195
950.00	91.479	-6.23258E+05	325.76	-9.32731E+05	51.284
1000.0	92.499	-6.18658E+05	330.48	-9.49138E+05	49.577
1050.0	93.431	-6.14009E+05	335.02	-9.65776E+05	48.044
1100.0	94.288	-6.09316E+05	339.38	-9.82637E+05	46.660
1150.0	95.082	-6.04582E+05	343.59	-9.99712E+05	45.407
1200.0	95.821	-5.99809E+05	347.65	-1.01699E+06	44.267
1250.0	96.514	-5.95000E+05	351.58	-1.03447E+06	43.227
1300.0	97.165	-5.90158E+05	355.38	-1.05215E+06	42.275
1350.0	97.779	-5.85284E+05	359.06	-1.07001E+06	41.400
1400.0	98.361	-5.80381E+05	362.62	-1.08805E+06	40.595
1450.0	98.913	-5.75449E+05	366.08	-1.10627E+06	39.851
1500.0	99.438	-5.70490E+05	369.45	-1.12466E+06	39.163
1550.0	99.939	-5.65505E+05	372.72	-1.14321E+06	38.525
1600.0	100.42	-5.60496E+05	375.90	-1.16193E+06	37.932
1650.0	100.88	-5.55464E+05	378.99	-1.18080E+06	37.380
1700.0	101.31	-5.50409E+05	382.01	-1.19983E+06	36.865
1750.0	101.73	-5.45333E+05	384.95	-1.21900E+06	36.384
1800.0	102.14	-5.40236E+05	387.83	-1.23832E+06	35.934
1850.0	102.52	-5.35120E+05	390.63	-1.25778E+06	35.513
1900.0	102.89	-5.29984E+05	393.37	-1.27738E+06	35.117
1950.0	103.25	-5.24831E+05	396.05	-1.29712E+06	34.745
2000.0	103.59	-5.19659E+05	398.66	-1.31699E+06	34.395
2050.0	103.92	-5.14472E+05	401.23	-1.33699E+06	34.066
2100.0	104.23	-5.09268E+05	403.73	-1.35711E+06	33.755
2150.0	104.54	-5.04048E+05	406.19	-1.37736E+06	33.462
2200.0	104.83	-4.98814E+05	408.60	-1.39773E+06	33.185
2250.0	105.10	-4.93566E+05	410.96	-1.41822E+06	32.924
2300.0	105.37	-4.88304E+05	413.27	-1.43882E+06	32.676
2350.0	105.62	-4.83029E+05	415.54	-1.45954E+06	32.441
2400.0	105.87	-4.77742E+05	417.76	-1.48038E+06	32.219
2450.0	106.10	-4.72443E+05	419.95	-1.50132E+06	32.008
2500.0	106.32	-4.67132E+05	422.10	-1.52237E+06	31.807
2550.0	106.53	-4.61811E+05	424.20	-1.54353E+06	31.617
2600.0	106.73	-4.56479E+05	426.27	-1.56479E+06	31.436
2650.0	106.92	-4.51138E+05	428.31	-1.58615E+06	31.264
2700.0	107.10	-4.45788E+05	430.31	-1.60762E+06	31.100
2750.0	107.27	-4.40428E+05	432.27	-1.62918E+06	30.945
2800.0	107.42	-4.35061E+05	434.21	-1.65085E+06	30.796
2850.0	107.57	-4.29686E+05	436.11	-1.67260E+06	30.655
2900.0	107.71	-4.24304E+05	437.98	-1.69446E+06	30.520
2950.0	107.84	-4.18915E+05	439.83	-1.71640E+06	30.391
3000.0	107.96	-4.13520E+05	441.64	-1.73844E+06	30.268

BeS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	30.786	2.63592E+05	210.29	2.00894E+05	-35.195
300.00	30.820	2.63649E+05	210.48	2.00505E+05	-34.910
350.00	31.662	2.65212E+05	215.30	1.89858E+05	-28.334
400.00	32.392	2.66813E+05	219.57	1.78985E+05	-23.372
450.00	33.037	2.68449E+05	223.43	1.67908E+05	-19.490
500.00	33.610	2.70116E+05	226.94	1.56648E+05	-16.364
550.00	34.119	2.71809E+05	230.16	1.45219E+05	-13.791
600.00	34.569	2.73527E+05	233.15	1.33635E+05	-11.634
650.00	34.963	2.75265E+05	235.94	1.21907E+05	-9.7963
700.00	35.303	2.77022E+05	238.54	1.10045E+05	-8.2114
750.00	35.589	2.78795E+05	240.98	98056.	-6.8291
800.00	35.833	2.80580E+05	243.29	85949.	-5.6117
850.00	36.078	2.82378E+05	245.47	73729.	-4.5307
900.00	36.340	2.84188E+05	247.54	61403.	-3.5637
950.00	36.629	2.86013E+05	249.51	48977.	-2.6929
1000.0	36.953	2.87852E+05	251.40	36454.	-1.9041
1050.0	37.320	2.89709E+05	253.21	23838.	-1.1859
1100.0	37.734	2.91585E+05	254.96	11134.	-0.52869
1150.0	38.199	2.93483E+05	256.64	-1656.2	7.5E-02
1200.0	38.718	2.95405E+05	258.28	-14529.	0.63244
1250.0	39.294	2.97355E+05	259.87	-27483.	1.1484
1300.0	39.929	2.99336E+05	261.42	-40516.	1.6279
1350.0	40.624	3.01349E+05	262.94	-53625.	2.0748
1400.0	41.381	3.03399E+05	264.44	-66810.	2.4926
1450.0	42.201	3.05488E+05	265.90	-80068.	2.8843
1500.0	43.085	3.07620E+05	267.35	-93400.	3.2524
1550.0	44.033	3.09798E+05	268.77	-1.06803E+05	3.5991
1600.0	45.029	3.12024E+05	270.19	-1.20277E+05	3.9265
1650.0	46.044	3.14301E+05	271.59	-1.33821E+05	4.2363
1700.0	47.066	3.16629E+05	272.98	-1.47436E+05	4.5300
1750.0	48.085	3.19008E+05	274.36	-1.61119E+05	4.8090
1800.0	49.091	3.21437E+05	275.73	-1.74871E+05	5.0745
1850.0	50.078	3.23917E+05	277.09	-1.88692E+05	5.3276
1900.0	51.038	3.26445E+05	278.43	-2.02580E+05	5.5692
1950.0	51.967	3.29020E+05	279.77	-2.16535E+05	5.8002
2000.0	52.859	3.31641E+05	281.10	-2.30557E+05	6.0214
2050.0	53.709	3.34305E+05	282.41	-2.44645E+05	6.2335
2100.0	54.513	3.37011E+05	283.72	-2.58798E+05	6.4371
2150.0	55.269	3.39756E+05	285.01	-2.73016E+05	6.6328
2200.0	55.973	3.42537E+05	286.29	-2.87299E+05	6.8212
2250.0	56.623	3.45352E+05	287.55	-3.01645E+05	7.0026
2300.0	57.215	3.48198E+05	288.81	-3.16054E+05	7.1776
2350.0	57.748	3.51072E+05	290.04	-3.30525E+05	7.3466
2400.0	58.219	3.53972E+05	291.26	-3.45058E+05	7.5098
2450.0	58.628	3.56893E+05	292.47	-3.59651E+05	7.6677
2500.0	58.972	3.59834E+05	293.66	-3.74304E+05	7.8205
2550.0	59.249	3.62789E+05	294.83	-3.89016E+05	7.9685
2600.0	59.460	3.65757E+05	295.98	-4.03787E+05	8.1120
2650.0	59.602	3.68734E+05	297.11	-4.18614E+05	8.2512
2700.0	59.674	3.71716E+05	298.23	-4.33497E+05	8.3863
2750.0	59.676	3.74700E+05	299.32	-4.48436E+05	8.5176
2800.0	59.679	3.77685E+05	300.40	-4.63429E+05	8.6452
2850.0	59.641	3.80668E+05	301.45	-4.78476E+05	8.7693
2900.0	59.566	3.83648E+05	302.49	-4.93574E+05	8.8900
2950.0	59.457	3.86624E+05	303.51	-5.08724E+05	9.0076
3000.0	59.318	3.89593E+05	304.51	-5.23925E+05	9.1221

BeSO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	86.008	-1.20081E+06	77.969	-1.22405E+06	214.44
300.00	86.382	-1.20065E+06	78.502	-1.22420E+06	213.15
350.00	95.428	-1.19610E+06	92.522	-1.22848E+06	183.34
400.00	103.05	-1.19113E+06	105.77	-1.23344E+06	161.07
450.00	109.84	-1.18580E+06	118.31	-1.23904E+06	143.82
500.00	116.12	-1.18015E+06	130.21	-1.24526E+06	130.09
550.00	122.06	-1.17420E+06	141.56	-1.25206E+06	118.91
600.00	127.77	-1.16795E+06	152.43	-1.25941E+06	109.64
650.00	133.32	-1.16142E+06	162.87	-1.26729E+06	101.84
700.00	138.75	-1.15462E+06	172.95	-1.27569E+06	95.191
750.00	144.10	-1.14755E+06	182.71	-1.28458E+06	89.464
800.00	149.38	-1.14021E+06	192.18	-1.29395E+06	84.484
850.00	154.61	-1.13261E+06	201.39	-1.30379E+06	80.119
863.00	155.97	-1.13059E+06	203.75	-1.30643E+06	79.072
863.00	158.06	-1.12965E+06	204.84	-1.30643E+06	79.072
900.00	162.26	-1.12372E+06	211.57	-1.31413E+06	76.268
908.00	163.16	-1.12242E+06	213.01	-1.31583E+06	75.694
908.00	163.19	-1.10287E+06	234.54	-1.31583E+06	75.694
950.00	168.81	-1.09589E+06	242.05	-1.32584E+06	72.898
1000.0	174.46	-1.08731E+06	250.85	-1.33816E+06	69.897
1050.0	179.18	-1.07846E+06	259.48	-1.35092E+06	67.203
1100.0	183.14	-1.06940E+06	267.91	-1.36411E+06	64.774
1150.0	186.47	-1.06016E+06	276.13	-1.37771E+06	62.576
1200.0	189.26	-1.05076E+06	284.13	-1.39172E+06	60.578
1250.0	191.60	-1.04124E+06	291.90	-1.40612E+06	58.757
1300.0	193.57	-1.03161E+06	299.46	-1.42090E+06	57.091
1350.0	195.21	-1.02189E+06	306.79	-1.43606E+06	55.563
1400.0	196.57	-1.01209E+06	313.92	-1.45158E+06	54.158
1450.0	197.69	-1.00224E+06	320.84	-1.46745E+06	52.862
1500.0	198.60	-9.92328E+05	327.55	-1.48366E+06	51.664
1550.0	199.33	-9.82379E+05	334.08	-1.50020E+06	50.555
1600.0	199.90	-9.72398E+05	340.42	-1.51706E+06	49.526
1650.0	200.32	-9.62392E+05	346.57	-1.53424E+06	48.569
1700.0	200.62	-9.52368E+05	352.56	-1.55172E+06	47.677
1750.0	200.81	-9.42331E+05	358.38	-1.56949E+06	46.846
1800.0	200.90	-9.32288E+05	364.04	-1.58755E+06	46.068

Be3N2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	64.740	-5.88000E+05	34.400	-5.98256E+05	104.81
300.00	65.204	-5.87880E+05	34.802	-5.98320E+05	104.17
350.00	76.061	-5.84336E+05	45.706	-6.00333E+05	89.593
400.00	84.572	-5.80312E+05	56.439	-6.02888E+05	78.727
450.00	91.547	-5.75904E+05	66.816	-6.05971E+05	70.338
500.00	97.410	-5.71176E+05	76.773	-6.09563E+05	63.679
550.00	102.40	-5.66178E+05	86.297	-6.13641E+05	58.277
600.00	106.68	-5.60948E+05	95.396	-6.18185E+05	53.816
650.00	110.31	-5.55521E+05	104.08	-6.23174E+05	50.078
700.00	113.38	-5.49926E+05	112.37	-6.28587E+05	46.905
750.00	116.00	-5.44189E+05	120.29	-6.34405E+05	44.183
800.00	118.08	-5.38335E+05	127.84	-6.40610E+05	41.826
850.00	119.78	-5.32387E+05	135.05	-6.47183E+05	39.770
900.00	121.18	-5.26362E+05	141.94	-6.54110E+05	37.963
950.00	122.37	-5.20272E+05	148.53	-6.61373E+05	36.364
1000.0	123.39	-5.14128E+05	154.83	-6.68958E+05	34.942
1050.0	124.29	-5.07935E+05	160.87	-6.76851E+05	33.671
1100.0	125.11	-5.01700E+05	166.67	-6.85041E+05	32.529
1150.0	125.93	-4.95423E+05	172.25	-6.93515E+05	31.500
1200.0	126.69	-4.89107E+05	177.63	-7.02263E+05	30.568
1250.0	127.47	-4.82754E+05	182.82	-7.11275E+05	29.722
1300.0	128.37	-4.76358E+05	187.83	-7.20542E+05	28.951
1350.0	129.46	-4.69913E+05	192.70	-7.30056E+05	28.247
1400.0	130.77	-4.63409E+05	197.43	-7.39809E+05	27.602
1450.0	132.37	-4.56831E+05	202.05	-7.49797E+05	27.010
1500.0	134.29	-4.50166E+05	206.56	-7.60012E+05	26.465
1550.0	136.56	-4.43397E+05	211.00	-7.70452E+05	25.963
1600.0	139.20	-4.36504E+05	215.38	-7.81112E+05	25.500
1650.0	142.26	-4.29470E+05	219.71	-7.91989E+05	25.072
1673.0	143.80	-4.26180E+05	221.69	-7.97065E+05	24.885
1673.0	145.00	-4.10180E+05	231.25	-7.97065E+05	24.885
1700.0	145.00	-4.06265E+05	233.57	-8.03340E+05	24.683
1750.0	145.00	-3.99015E+05	237.78	-8.15124E+05	24.330
1800.0	145.00	-3.91765E+05	241.86	-8.27116E+05	24.002
1850.0	145.00	-3.84515E+05	245.83	-8.39309E+05	23.697
1900.0	145.00	-3.77265E+05	249.70	-8.51698E+05	23.414
1950.0	145.00	-3.70015E+05	253.47	-8.64277E+05	23.151
2000.0	145.00	-3.62765E+05	257.14	-8.77043E+05	22.905
2050.0	145.00	-3.55515E+05	260.72	-8.89990E+05	22.677
2100.0	145.00	-3.48265E+05	264.21	-9.03113E+05	22.463
2150.0	145.00	-3.41015E+05	267.63	-9.16409E+05	22.264
2200.0	145.00	-3.33765E+05	270.96	-9.29874E+05	22.077
2250.0	145.00	-3.26515E+05	274.22	-9.43504E+05	21.903
2300.0	145.00	-3.19265E+05	277.40	-9.57295E+05	21.740
2350.0	145.00	-3.12015E+05	280.52	-9.71243E+05	21.588
2400.0	145.00	-3.04765E+05	283.58	-9.85346E+05	21.445
2450.0	145.00	-2.97515E+05	286.57	-9.99600E+05	21.311
2473.0	145.00	-2.94180E+05	287.92	-1.00621E+06	21.253
2473.0	167.00	-1.83180E+05	332.80	-1.00621E+06	21.253
2500.0	167.00	-1.78671E+05	334.62	-1.01522E+06	21.211
2550.0	167.00	-1.70321E+05	337.93	-1.03203E+06	21.140
2600.0	167.00	-1.61971E+05	341.17	-1.04901E+06	21.074
2650.0	167.00	-1.53621E+05	344.35	-1.06615E+06	21.014
2700.0	167.00	-1.45271E+05	347.47	-1.08344E+06	20.960
2750.0	167.00	-1.36921E+05	350.54	-1.10089E+06	20.910
2800.0	167.00	-1.28571E+05	353.54	-1.11849E+06	20.865
2850.0	167.00	-1.20221E+05	356.50	-1.13625E+06	20.825
2900.0	167.00	-1.11871E+05	359.40	-1.15414E+06	20.788
2950.0	167.00	-1.03521E+05	362.26	-1.17219E+06	20.755
3000.0	167.00	-95171.	365.07	-1.19037E+06	20.726

Be2C

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	43.250	-90793.	16.318	-95658.	16.758
300.00	43.329	-90713.	16.586	-95689.	16.660
350.00	45.472	-88493.	23.426	-96692.	14.430
400.00	47.612	-86166.	29.638	-98021.	12.800
450.00	49.751	-83732.	35.369	-99648.	11.567
500.00	51.888	-81191.	40.721	-1.01551E+05	10.609
550.00	54.025	-78543.	45.767	-1.03715E+05	9.8498
600.00	56.161	-75788.	50.559	-1.06124E+05	9.2387
650.00	58.297	-72927.	55.139	-1.08767E+05	8.7404
700.00	60.433	-69959.	59.538	-1.11635E+05	8.3301
750.00	62.569	-66883.	63.780	-1.14718E+05	7.9895
800.00	64.706	-63702.	67.886	-1.18011E+05	7.7051
850.00	66.842	-60413.	71.873	-1.21505E+05	7.4666
900.00	68.978	-57017.	75.754	-1.25196E+05	7.2660
950.00	71.115	-53515.	79.541	-1.29079E+05	7.0971
1000.0	73.251	-49906.	83.243	-1.33149E+05	6.9548
1050.0	75.388	-46190.	86.868	-1.37402E+05	6.8352
1100.0	77.524	-42367.	90.425	-1.41834E+05	6.7350
1150.0	79.861	-38431.	93.924	-1.46443E+05	6.6515
1200.0	81.847	-34387.	97.366	-1.51226E+05	6.5825
1250.0	83.539	-30251.	100.74	-1.56179E+05	6.5262
1300.0	84.980	-26037.	104.05	-1.61299E+05	6.4809
1350.0	86.208	-21757.	107.28	-1.66582E+05	6.4453
1400.0	87.252	-17419.	110.43	-1.72025E+05	6.4182
1450.0	88.139	-13034.	113.51	-1.77624E+05	6.3986
1500.0	88.889	-8607.8	116.51	-1.83375E+05	6.3855
1550.0	89.520	-4147.1	119.44	-1.89274E+05	6.3783
1600.0	90.047	342.52	122.29	-1.95318E+05	6.3763
1650.0	90.482	4856.1	125.07	-2.01502E+05	6.3789
1700.0	90.837	9389.4	127.77	-2.07823E+05	6.3855
1750.0	91.121	13939.	130.41	-2.14278E+05	6.3957
1800.0	91.341	18500.	132.98	-2.20863E+05	6.4091
1850.0	91.506	23072.	135.48	-2.27575E+05	6.4254
1900.0	91.621	27650.	137.93	-2.34410E+05	6.4442
1950.0	91.671	32233.	140.31	-2.41366E+05	6.4653
2000.0	91.718	36817.	142.63	-2.48440E+05	6.4884
2050.0	91.761	41404.	144.89	-2.55628E+05	6.5133
2100.0	91.803	45993.	147.11	-2.62929E+05	6.5398
2150.0	91.843	50585.	149.27	-2.70338E+05	6.5677
2200.0	91.883	55178.	151.38	-2.77854E+05	6.5969
2250.0	91.923	59773.	153.44	-2.85475E+05	6.6272
2300.0	91.963	64370.	155.46	-2.93198E+05	6.6586
2350.0	92.005	68969.	157.44	-3.01021E+05	6.6908
2400.0	92.048	73570.	159.38	-3.08941E+05	6.7238
2400.0	92.048	1.48882E+05	190.76	-3.08942E+05	6.7238
2400.0	92.048	1.48882E+05	190.76	-3.08942E+05	6.7238
2450.0	92.048	1.53485E+05	192.66	-3.18527E+05	6.7909
2500.0	92.048	1.58087E+05	194.52	-3.28207E+05	6.8573
2550.0	92.048	1.62690E+05	196.34	-3.37978E+05	6.9230
2600.0	92.048	1.67292E+05	198.13	-3.47840E+05	6.9880
2650.0	92.048	1.71894E+05	199.88	-3.57790E+05	7.0523
2700.0	92.048	1.76497E+05	201.60	-3.67828E+05	7.1159
2750.0	92.048	1.81099E+05	203.29	-3.77950E+05	7.1788
2800.0	92.048	1.85702E+05	204.95	-3.88156E+05	7.2410
2850.0	92.048	1.90304E+05	206.58	-3.98445E+05	7.3025

Bi

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.522	0.00000E+00	56.735	-16916.	2.9635
300.00	25.532	47.226	56.893	-17021.	2.9635
350.00	25.933	1332.8	60.856	-19967.	2.9798
400.00	26.585	2644.7	64.358	-23099.	3.0163
450.00	27.488	3995.5	67.539	-26397.	3.0640
500.00	28.643	5397.7	70.493	-29849.	3.1182
544.55	29.884	6700.7	72.988	-33045.	3.1697
544.55	30.537	17997.	93.734	-33045.	3.1697
550.00	30.394	18164.	94.037	-33557.	3.1869
600.00	29.449	19657.	96.637	-38325.	3.3364
650.00	28.946	21116.	98.972	-43216.	3.4728
700.00	28.651	22555.	101.11	-48219.	3.5980
750.00	28.408	23982.	103.07	-53324.	3.7137
800.00	28.116	25395.	104.90	-58524.	3.8211
850.00	27.892	26795.	106.60	-63812.	3.9213
900.00	27.698	28185.	108.18	-69182.	4.0151
950.00	27.536	29565.	109.68	-74629.	4.1033
1000.0	27.405	30939.	111.09	-80148.	4.1864
1050.0	27.306	32306.	112.42	-85736.	4.2650
1100.0	27.238	33670.	113.69	-91389.	4.3396
1150.0	27.201	35031.	114.90	-97104.	4.4105
1200.0	27.196	36390.	116.06	-1.02878E+05	4.4781
1250.0	27.196	37750.	117.17	-1.08709E+05	4.5426
1300.0	27.196	39110.	118.23	-1.14594E+05	4.6043
1350.0	27.196	40470.	119.26	-1.20532E+05	4.6635
1400.0	27.196	41830.	120.25	-1.26520E+05	4.7204
1450.0	27.196	43189.	121.20	-1.32556E+05	4.7751
1500.0	27.196	44549.	122.13	-1.38639E+05	4.8277
1550.0	27.196	45909.	123.02	-1.44768E+05	4.8785
1600.0	27.196	47269.	123.88	-1.50941E+05	4.9276
1650.0	27.196	48629.	124.72	-1.57156E+05	4.9750
1700.0	27.196	49988.	125.53	-1.63412E+05	5.0209
1750.0	27.196	51348.	126.32	-1.69708E+05	5.0654
1800.0	27.196	52708.	127.08	-1.76043E+05	5.1085
1850.0	27.196	54068.	127.83	-1.82416E+05	5.1504
1900.0	27.196	55428.	128.55	-1.88826E+05	5.1911
1950.0	27.196	56787.	129.26	-1.95272E+05	5.2306
2000.0	27.196	58147.	129.95	-2.01752E+05	5.2691
2050.0	27.196	59507.	130.62	-2.08266E+05	5.3066
2100.0	27.196	60867.	131.28	-2.14814E+05	5.3431
2150.0	27.196	62227.	131.92	-2.21394E+05	5.3787
2200.0	27.196	63586.	132.54	-2.28005E+05	5.4134
2250.0	27.196	64946.	133.15	-2.34648E+05	5.4473
2300.0	27.196	66306.	133.75	-2.41320E+05	5.4804
2350.0	27.196	67666.	134.34	-2.48022E+05	5.5128
2400.0	27.196	69026.	134.91	-2.54753E+05	5.5444
2450.0	27.196	70385.	135.47	-2.61513E+05	5.5754
2500.0	27.196	71745.	136.02	-2.68300E+05	5.6057
2550.0	27.196	73105.	136.56	-2.75115E+05	5.6354
2600.0	27.196	74465.	137.08	-2.81956E+05	5.6644
2650.0	27.196	75825.	137.60	-2.88823E+05	5.6929
2700.0	27.196	77184.	138.11	-2.95716E+05	5.7208
2750.0	27.196	78544.	138.61	-3.02634E+05	5.7482
2800.0	27.196	79904.	139.10	-3.09577E+05	5.7751
2850.0	27.196	81264.	139.58	-3.16544E+05	5.8014
2900.0	27.196	82624.	140.05	-3.23535E+05	5.8273
2950.0	27.196	83983.	140.52	-3.30549E+05	5.8528
3000.0	27.196	85343.	140.98	-3.37587E+05	5.8778

BiF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.337	28660.	244.20	-44148.	7.7343
300.00	34.373	28724.	244.41	-44600.	7.7653
350.00	35.149	30463.	249.77	-56957.	8.5002
400.00	35.665	32234.	254.50	-69566.	9.0842
450.00	36.030	34027.	258.72	-82399.	9.5644
500.00	36.304	35836.	262.54	-95432.	9.9694
550.00	36.518	37656.	266.01	-1.08647E+05	10.318
600.00	36.694	39487.	269.19	-1.22028E+05	10.623
650.00	36.843	41325.	272.13	-1.35562E+05	10.894
700.00	36.974	43171.	274.87	-1.49238E+05	11.136
750.00	37.092	45023.	277.42	-1.63046E+05	11.355
800.00	37.202	46880.	279.82	-1.76977E+05	11.555
850.00	37.305	48743.	282.08	-1.91026E+05	11.739
900.00	37.404	50610.	284.22	-2.05183E+05	11.908
950.00	37.502	52483.	286.24	-2.19445E+05	12.066
1000.0	37.597	54361.	288.17	-2.33806E+05	12.212
1050.0	37.693	56243.	290.00	-2.48260E+05	12.350
1100.0	37.788	58130.	291.76	-2.62805E+05	12.479
1150.0	37.885	60022.	293.44	-2.77435E+05	12.601
1200.0	37.982	61918.	295.05	-2.92148E+05	12.717
1250.0	38.081	63820.	296.61	-3.06939E+05	12.826
1300.0	38.183	65726.	298.10	-3.21807E+05	12.930
1350.0	38.272	67638.	299.55	-3.36749E+05	13.029
1400.0	38.390	69554.	300.94	-3.51761E+05	13.124
1450.0	38.532	71477.	302.29	-3.66842E+05	13.215
1500.0	38.694	73408.	303.60	-3.81989E+05	13.302
1550.0	38.872	75347.	304.87	-3.97201E+05	13.385
1600.0	39.064	77295.	306.11	-4.12476E+05	13.466
1650.0	39.267	79253.	307.31	-4.27811E+05	13.543
1700.0	39.479	81222.	308.49	-4.43207E+05	13.618
1750.0	39.699	83201.	309.63	-4.58660E+05	13.690
1800.0	39.924	85192.	310.76	-4.74170E+05	13.760
1850.0	40.153	87194.	311.85	-4.89735E+05	13.827
1900.0	40.386	89207.	312.93	-5.05355E+05	13.893
1950.0	40.621	91232.	313.98	-5.21027E+05	13.956
2000.0	40.857	93269.	315.01	-5.36752E+05	14.018
2050.0	41.094	95318.	316.02	-5.52528E+05	14.078
2100.0	41.330	97379.	317.02	-5.68354E+05	14.137
2150.0	41.566	99451.	317.99	-5.84229E+05	14.194
2200.0	41.800	1.01535E+05	318.95	-6.00153E+05	14.249
2250.0	42.033	1.03631E+05	319.89	-6.16124E+05	14.303
2300.0	42.263	1.05739E+05	320.82	-6.32142E+05	14.356
2350.0	42.491	1.07857E+05	321.73	-6.48205E+05	14.408
2400.0	42.715	1.09988E+05	322.63	-6.64314E+05	14.458
2450.0	42.937	1.12129E+05	323.51	-6.80468E+05	14.507
2500.0	43.154	1.14281E+05	324.38	-6.96665E+05	14.556
2550.0	43.368	1.16444E+05	325.24	-7.12905E+05	14.603
2600.0	43.578	1.18618E+05	326.08	-7.29188E+05	14.649
2650.0	43.784	1.20802E+05	326.91	-7.45513E+05	14.695
2700.0	43.985	1.22996E+05	327.73	-7.61879E+05	14.739
2750.0	44.181	1.25200E+05	328.54	-7.78286E+05	14.783
2800.0	44.372	1.27414E+05	329.34	-7.94733E+05	14.826
2850.0	44.559	1.29638E+05	330.13	-8.11220E+05	14.868
2900.0	44.741	1.31870E+05	330.90	-8.27746E+05	14.909
2950.0	44.917	1.34112E+05	331.67	-8.44310E+05	14.950
3000.0	45.088	1.36362E+05	332.42	-8.60912E+05	14.989

BiF3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	72.659	-7.09188E+05	317.76	-8.03928E+05	140.84
300.00	72.782	-7.09053E+05	318.21	-8.04516E+05	140.08
350.00	75.420	-7.05343E+05	329.64	-8.20718E+05	122.48
400.00	77.141	-7.01527E+05	339.83	-8.37460E+05	109.36
450.00	78.328	-6.97638E+05	348.99	-8.54684E+05	99.207
500.00	79.184	-6.93699E+05	357.29	-8.72344E+05	91.131
550.00	79.824	-6.89723E+05	364.87	-8.90401E+05	84.561
600.00	80.316	-6.85719E+05	371.84	-9.08821E+05	79.118
650.00	80.705	-6.81693E+05	378.28	-9.27576E+05	74.539
700.00	81.018	-6.77650E+05	384.27	-9.46642E+05	70.637
750.00	81.275	-6.73593E+05	389.87	-9.65997E+05	67.276
800.00	81.491	-6.69523E+05	395.12	-9.85623E+05	64.353
850.00	81.673	-6.65444E+05	400.07	-1.00550E+06	61.789
900.00	81.830	-6.61356E+05	404.74	-1.02563E+06	59.524
950.00	81.966	-6.57261E+05	409.17	-1.04597E+06	57.510
1000.0	82.086	-6.53160E+05	413.38	-1.06654E+06	55.709
1050.0	82.193	-6.49053E+05	417.39	-1.08731E+06	54.089
1100.0	82.289	-6.44941E+05	421.21	-1.10827E+06	52.626
1150.0	82.375	-6.40824E+05	424.87	-1.12943E+06	51.299
1200.0	82.454	-6.36704E+05	428.38	-1.15076E+06	50.090

BiCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.253	25104.	255.08	-50949.	8.9258
300.00	36.271	25171.	255.31	-51421.	8.9529
350.00	36.658	26995.	260.93	-64330.	9.6005
400.00	36.924	28835.	265.84	-77502.	10.120
450.00	37.119	30686.	270.20	-90905.	10.552
500.00	37.271	32546.	274.12	-1.04515E+05	10.918
550.00	37.394	34413.	277.68	-1.18311E+05	11.236
600.00	37.498	36285.	280.94	-1.32278E+05	11.516
650.00	37.588	38162.	283.94	-1.46401E+05	11.765
700.00	37.668	40044.	286.73	-1.60669E+05	11.989
750.00	37.741	41929.	289.33	-1.75071E+05	12.193
800.00	37.808	43818.	291.77	-1.89599E+05	12.379
850.00	37.870	45710.	294.07	-2.04246E+05	12.551
900.00	37.930	47605.	296.23	-2.19004E+05	12.710
950.00	37.986	49503.	298.28	-2.33867E+05	12.859
1000.0	38.041	51403.	300.23	-2.48830E+05	12.997
1050.0	38.094	53307.	302.09	-2.63889E+05	13.127
1100.0	38.145	55213.	303.86	-2.79038E+05	13.250
1150.0	38.195	57121.	305.56	-2.94274E+05	13.366
1200.0	38.244	59032.	307.19	-3.09593E+05	13.476
1250.0	38.292	60946.	308.75	-3.24992E+05	13.580
1300.0	38.340	62861.	310.25	-3.40467E+05	13.680
1350.0	38.387	64780.	311.70	-3.56016E+05	13.775
1400.0	38.433	66700.	313.10	-3.71636E+05	13.866
1450.0	38.479	68623.	314.45	-3.87325E+05	13.953
1500.0	38.524	70548.	315.75	-4.03080E+05	14.036
1550.0	38.570	72475.	317.02	-4.18899E+05	14.116
1600.0	38.614	74405.	318.24	-4.34781E+05	14.194
1650.0	38.659	76337.	319.43	-4.50723E+05	14.268
1700.0	38.703	78271.	320.58	-4.66723E+05	14.340
1750.0	38.747	80207.	321.71	-4.82781E+05	14.410
1800.0	38.791	82146.	322.80	-4.98894E+05	14.477

BiCl3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.569	-2.65266E+05	357.42	-3.71831E+05	65.142
300.00	79.612	-2.65118E+05	357.92	-3.72493E+05	64.855
350.00	80.525	-2.61113E+05	370.26	-3.90705E+05	58.308
400.00	81.117	-2.57071E+05	381.06	-4.09493E+05	53.473
450.00	81.523	-2.53005E+05	390.63	-4.28790E+05	49.771
500.00	81.814	-2.48921E+05	399.24	-4.48541E+05	46.858
550.00	82.029	-2.44824E+05	407.05	-4.68701E+05	44.512
600.00	82.192	-2.40719E+05	414.19	-4.89234E+05	42.591
650.00	82.320	-2.36606E+05	420.78	-5.10111E+05	40.992
700.00	82.421	-2.32487E+05	426.88	-5.31304E+05	39.645
750.00	82.502	-2.28364E+05	432.57	-5.52792E+05	38.499
800.00	82.569	-2.24237E+05	437.90	-5.74555E+05	37.514
850.00	82.624	-2.20107E+05	442.90	-5.96576E+05	36.660
900.00	82.670	-2.15975E+05	447.63	-6.18841E+05	35.916
950.00	82.709	-2.11840E+05	452.10	-6.41335E+05	35.262
1000.0	82.743	-2.07704E+05	456.34	-6.64047E+05	34.685

BiBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	81.221	-1.56900E+05	384.41	-2.71512E+05	47.567
300.00	81.244	-1.56750E+05	384.91	-2.72223E+05	47.397
350.00	81.728	-1.52675E+05	397.48	-2.91791E+05	43.546
400.00	82.046	-1.48580E+05	408.41	-3.11944E+05	40.735
450.00	82.267	-1.44471E+05	418.09	-3.32611E+05	38.608
500.00	82.427	-1.40354E+05	426.76	-3.53736E+05	36.954
550.00	82.547	-1.36229E+05	434.63	-3.75274E+05	35.640
600.00	82.640	-1.32100E+05	441.81	-3.97188E+05	34.577
650.00	82.713	-1.27966E+05	448.43	-4.19446E+05	33.706
700.00	82.772	-1.23829E+05	454.56	-4.42023E+05	32.983
750.00	82.820	-1.19689E+05	460.28	-4.64895E+05	32.377
800.00	82.860	-1.15547E+05	465.62	-4.88044E+05	31.865
850.00	82.893	-1.11403E+05	470.65	-5.11452E+05	31.429
900.00	82.920	-1.07257E+05	475.38	-5.35104E+05	31.056
950.00	82.943	-1.03111E+05	479.87	-5.58986E+05	30.734
1000.0	82.963	-98963.	484.12	-5.83087E+05	30.457
1050.0	82.979	-94815.	488.17	-6.07395E+05	30.215
1100.0	82.992	-90665.	492.03	-6.31901E+05	30.006
1150.0	83.003	-86516.	495.72	-6.56596E+05	29.823
1200.0	83.011	-82365.	499.25	-6.81471E+05	29.663
1250.0	83.018	-78214.	502.64	-7.06519E+05	29.523
1300.0	83.023	-74063.	505.90	-7.31733E+05	29.401
1350.0	83.026	-69912.	509.03	-7.57106E+05	29.293
1400.0	83.028	-65761.	512.05	-7.82634E+05	29.200
1450.0	83.028	-61609.	514.97	-8.08310E+05	29.118
1500.0	83.027	-57458.	517.78	-8.34129E+05	29.046

BiI3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.091	-16318.	408.38	-1.38077E+05	24.190
300.00	82.104	-16166.	408.89	-1.38833E+05	24.172
350.00	82.380	-12053.	421.57	-1.59603E+05	23.819
400.00	82.559	-7929.3	432.58	-1.80963E+05	23.631
450.00	82.681	-3798.2	442.31	-2.02840E+05	23.544
500.00	82.768	338.14	451.03	-2.25177E+05	23.524
550.00	82.832	4478.2	458.92	-2.47929E+05	23.546
600.00	82.880	8621.1	466.13	-2.71058E+05	23.597
650.00	82.918	12766.	472.77	-2.94533E+05	23.668
700.00	82.947	16913.	478.91	-3.18327E+05	23.753
750.00	82.971	21061.	484.64	-3.42417E+05	23.847
800.00	82.990	25210.	489.99	-3.66784E+05	23.948
850.00	83.005	29360.	495.02	-3.91411E+05	24.053
900.00	83.018	33510.	499.77	-4.16282E+05	24.160
950.00	83.029	37661.	504.26	-4.41384E+05	24.268
1000.0	83.038	41813.	508.52	-4.66704E+05	24.377
1050.0	83.045	45965.	512.57	-4.92232E+05	24.487
1100.0	83.051	50117.	516.43	-5.17958E+05	24.595
1150.0	83.057	54270.	520.12	-5.43872E+05	24.703
1200.0	83.061	58423.	523.66	-5.69967E+05	24.809
1250.0	83.065	62576.	527.05	-5.96236E+05	24.915
1300.0	83.069	66730.	530.31	-6.22670E+05	25.019
1350.0	83.071	70883.	533.44	-6.49264E+05	25.121
1400.0	83.074	75037.	536.46	-6.76013E+05	25.222
1450.0	83.076	79191.	539.38	-7.02909E+05	25.321
1500.0	83.078	83344.	542.20	-7.29949E+05	25.418

Bi2O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	113.40	-5.78010E+05	149.81	-6.22676E+05	109.09
300.00	113.45	-5.77800E+05	150.51	-6.22954E+05	108.46
350.00	115.03	-5.72090E+05	168.11	-6.30930E+05	94.159
400.00	116.87	-5.66293E+05	183.59	-6.39730E+05	83.538
450.00	118.86	-5.60400E+05	197.47	-6.49262E+05	75.363
500.00	120.94	-5.54405E+05	210.10	-6.59456E+05	68.891
550.00	123.09	-5.48304E+05	221.73	-6.70256E+05	63.654
600.00	125.27	-5.42096E+05	232.53	-6.81616E+05	59.338
650.00	127.49	-5.35777E+05	242.65	-6.93498E+05	55.729
700.00	129.72	-5.29347E+05	252.18	-7.05871E+05	52.671
750.00	131.97	-5.22804E+05	261.20	-7.18707E+05	50.054
800.00	134.24	-5.16149E+05	269.79	-7.31984E+05	47.792
850.00	136.51	-5.09381E+05	278.00	-7.45680E+05	45.823
900.00	138.79	-5.02498E+05	285.87	-7.59778E+05	44.095
950.00	141.07	-4.95502E+05	293.43	-7.74262E+05	42.571
1000.0	143.36	-4.88391E+05	300.73	-7.89117E+05	41.218
1003.0	143.50	-4.87961E+05	301.16	-7.90019E+05	41.142
1003.0	149.70	-4.58161E+05	330.87	-7.90020E+05	41.142
1050.0	149.70	-4.51125E+05	337.72	-8.05733E+05	40.082
1098.0	149.70	-4.43939E+05	344.41	-8.22105E+05	39.109
1098.0	202.00	-4.29239E+05	357.80	-8.22105E+05	39.109
1100.0	202.00	-4.28835E+05	358.17	-8.22821E+05	39.072
1150.0	202.00	-4.18735E+05	367.15	-8.40956E+05	38.196
1200.0	202.00	-4.08635E+05	375.75	-8.59529E+05	37.413
1250.0	202.00	-3.98535E+05	383.99	-8.78524E+05	36.711
1300.0	202.00	-3.88435E+05	391.91	-8.97923E+05	36.078
1350.0	202.00	-3.78335E+05	399.54	-9.17711E+05	35.507
1400.0	202.00	-3.68235E+05	406.88	-9.37872E+05	34.992
1450.0	202.00	-3.58135E+05	413.97	-9.58395E+05	34.524
1500.0	202.00	-3.48035E+05	420.82	-9.79266E+05	34.100
1550.0	202.00	-3.37935E+05	427.44	-1.00047E+06	33.715
1600.0	202.00	-3.27835E+05	433.86	-1.02201E+06	33.364
1650.0	202.00	-3.17735E+05	440.07	-1.04386E+06	33.045
1700.0	202.00	-3.07635E+05	446.10	-1.06601E+06	32.754
1750.0	202.00	-2.97535E+05	451.96	-1.08846E+06	32.488
1800.0	202.00	-2.87435E+05	457.65	-1.11120E+06	32.245
1850.0	202.00	-2.77335E+05	463.18	-1.13423E+06	32.024
1900.0	202.00	-2.67235E+05	468.57	-1.15752E+06	31.822
1950.0	202.00	-2.57135E+05	473.82	-1.18108E+06	31.637
2000.0	202.00	-2.47035E+05	478.93	-1.20490E+06	31.468
2050.0	202.00	-2.36935E+05	483.92	-1.22897E+06	31.314
2100.0	202.00	-2.26835E+05	488.79	-1.25329E+06	31.173
2150.0	202.00	-2.16735E+05	493.54	-1.27785E+06	31.045
2200.0	202.00	-2.06635E+05	498.18	-1.30264E+06	30.928
2250.0	202.00	-1.96535E+05	502.72	-1.32766E+06	30.821
2300.0	202.00	-1.86435E+05	507.16	-1.35291E+06	30.725
2350.0	202.00	-1.76335E+05	511.51	-1.37838E+06	30.637
2400.0	202.00	-1.66235E+05	515.76	-1.40406E+06	30.558
2450.0	202.00	-1.56135E+05	519.93	-1.42995E+06	30.486
2500.0	202.00	-1.46035E+05	524.01	-1.45605E+06	30.422
2550.0	202.00	-1.35935E+05	528.01	-1.48235E+06	30.364
2600.0	202.00	-1.25835E+05	531.93	-1.50885E+06	30.312
2650.0	202.00	-1.15735E+05	535.78	-1.53554E+06	30.267
2700.0	202.00	-1.05635E+05	539.55	-1.56243E+06	30.226
2750.0	202.00	-95535.	543.26	-1.58950E+06	30.191
2800.0	202.00	-85435.	546.90	-1.61675E+06	30.160
2850.0	202.00	-75335.	550.47	-1.64419E+06	30.134
2900.0	202.00	-65235.	553.99	-1.67180E+06	30.112
2950.0	202.00	-55135.	557.44	-1.69959E+06	30.093
3000.0	202.00	-45035.	560.84	-1.72754E+06	30.078

BiS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.277	1.76548E+05	257.87	99663.	-17.460
300.00	35.305	1.76613E+05	258.09	99186.	-17.269
350.00	35.901	1.78395E+05	263.58	86141.	-12.856
400.00	36.289	1.80200E+05	268.40	72839.	-9.5116
450.00	36.557	1.82022E+05	272.69	59310.	-6.8843
500.00	36.751	1.83854E+05	276.55	45577.	-4.7613
550.00	36.898	1.85696E+05	280.06	31660.	-3.0068
600.00	37.014	1.87544E+05	283.28	17576.	-1.5301
650.00	37.109	1.89397E+05	286.25	3336.4	-0.26811
700.00	37.190	1.91254E+05	289.00	-11046.	0.82421
750.00	37.261	1.93116E+05	291.57	-25560.	1.7801
800.00	37.326	1.94980E+05	293.98	-40200.	2.6247
850.00	37.386	1.96848E+05	296.24	-54956.	3.3771
900.00	37.443	1.98719E+05	298.38	-69822.	4.0522
950.00	37.499	2.00592E+05	300.40	-84792.	4.6620
1000.0	37.554	2.02469E+05	302.33	-99860.	5.2160
1050.0	37.608	2.04348E+05	304.16	-1.15023E+05	5.7219
1100.0	37.664	2.06230E+05	305.91	-1.30275E+05	6.1861
1150.0	37.720	2.08114E+05	307.59	-1.45613E+05	6.6138
1200.0	37.778	2.10002E+05	309.20	-1.61033E+05	7.0094
1250.0	37.838	2.11892E+05	310.74	-1.76532E+05	7.3767
1300.0	37.899	2.13786E+05	312.22	-1.92106E+05	7.7187
1350.0	37.962	2.15682E+05	313.66	-2.07753E+05	8.0382
1400.0	38.028	2.17582E+05	315.04	-2.23471E+05	8.3376
1450.0	38.096	2.19485E+05	316.37	-2.39256E+05	8.6187
1500.0	38.166	2.21391E+05	317.67	-2.55107E+05	8.8834
1550.0	38.238	2.23301E+05	318.92	-2.71022E+05	9.1331
1600.0	38.314	2.25215E+05	320.13	-2.86998E+05	9.3693
1650.0	38.392	2.27133E+05	321.31	-3.03035E+05	9.5930
1700.0	38.472	2.29054E+05	322.46	-3.19129E+05	9.8054
1750.0	38.556	2.30980E+05	323.58	-3.35280E+05	10.007
1800.0	38.643	2.32910E+05	324.66	-3.51487E+05	10.200
1850.0	38.720	2.34844E+05	325.72	-3.67746E+05	10.383
1900.0	38.812	2.36782E+05	326.76	-3.84059E+05	10.558
1950.0	38.918	2.38726E+05	327.77	-4.00422E+05	10.726
2000.0	39.037	2.40674E+05	328.75	-4.16835E+05	10.886
2050.0	39.167	2.42629E+05	329.72	-4.33297E+05	11.040
2100.0	39.306	2.44591E+05	330.67	-4.49807E+05	11.188
2150.0	39.455	2.46560E+05	331.59	-4.66363E+05	11.330
2200.0	39.612	2.48537E+05	332.50	-4.82966E+05	11.467
2250.0	39.777	2.50522E+05	333.39	-4.99613E+05	11.598
2300.0	39.948	2.52515E+05	334.27	-5.16305E+05	11.725
2350.0	40.125	2.54516E+05	335.13	-5.33040E+05	11.848
2400.0	40.308	2.56527E+05	335.98	-5.49817E+05	11.966
2450.0	40.495	2.58547E+05	336.81	-5.66637E+05	12.081
2500.0	40.687	2.60577E+05	337.63	-5.83498E+05	12.191
2550.0	40.883	2.62616E+05	338.44	-6.00400E+05	12.298
2600.0	41.082	2.64665E+05	339.23	-6.17342E+05	12.402
2650.0	41.285	2.66724E+05	340.02	-6.34323E+05	12.503
2700.0	41.491	2.68794E+05	340.79	-6.51343E+05	12.601
2750.0	41.700	2.70873E+05	341.55	-6.68402E+05	12.696
2800.0	41.911	2.72964E+05	342.31	-6.85499E+05	12.788
2850.0	42.124	2.75065E+05	343.05	-7.02633E+05	12.877
2900.0	42.339	2.77176E+05	343.79	-7.19804E+05	12.965
2950.0	42.556	2.79299E+05	344.51	-7.37011E+05	13.050
3000.0	42.775	2.81432E+05	345.23	-7.54255E+05	13.132

Bi2S3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	122.06	-1.55645E+05	200.41	-2.15398E+05	37.736
300.00	122.13	-1.55419E+05	201.17	-2.15770E+05	37.568
350.00	124.18	-1.49261E+05	220.15	-2.26314E+05	33.775
400.00	126.23	-1.43001E+05	236.87	-2.37747E+05	31.046
450.00	128.28	-1.36638E+05	251.85	-2.49971E+05	29.015
500.00	130.33	-1.30173E+05	265.47	-2.62910E+05	27.465
550.00	132.38	-1.23605E+05	277.99	-2.76500E+05	26.259
600.00	134.43	-1.16934E+05	289.60	-2.90694E+05	25.306
650.00	136.48	-1.10162E+05	300.44	-3.05448E+05	24.545
700.00	138.53	-1.03286E+05	310.63	-3.20727E+05	23.932
750.00	140.58	-96308.	320.26	-3.36501E+05	23.435
800.00	142.63	-89228.	329.40	-3.52744E+05	23.031
850.00	144.68	-82045.	338.10	-3.69433E+05	22.702
900.00	146.73	-74760.	346.43	-3.86548E+05	22.434
950.00	148.78	-67372.	354.42	-4.04071E+05	22.217
1000.0	150.83	-59881.	362.10	-4.21985E+05	22.042
1050.0	152.88	-52289.	369.51	-4.40277E+05	21.902
1050.0	167.36	25952.	444.03	-4.40277E+05	21.902
1050.0	167.36	25952.	444.03	-4.40277E+05	21.902
1100.0	167.36	34320.	451.81	-4.62674E+05	21.970

Bi2(SO4)3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	278.84	-2.54387E+06	312.55	-2.63706E+06	461.99
300.00	279.16	-2.54336E+06	314.27	-2.63764E+06	459.24
350.00	287.61	-2.52919E+06	357.94	-2.65447E+06	396.15
400.00	296.06	-2.51460E+06	396.89	-2.67335E+06	349.10
450.00	304.51	-2.49958E+06	432.25	-2.69409E+06	312.71
500.00	312.96	-2.48414E+06	464.77	-2.71653E+06	283.79
550.00	321.41	-2.46828E+06	495.00	-2.74053E+06	260.27
600.00	329.87	-2.45200E+06	523.33	-2.76600E+06	240.80
650.00	338.32	-2.43530E+06	550.07	-2.79284E+06	224.43
700.00	346.77	-2.41817E+06	575.45	-2.82098E+06	210.50
750.00	355.22	-2.40062E+06	599.66	-2.85037E+06	198.51
800.00	363.67	-2.38265E+06	622.85	-2.88093E+06	188.10
850.00	372.12	-2.36425E+06	645.16	-2.91264E+06	178.98
900.00	380.58	-2.34544E+06	666.67	-2.94543E+06	170.94
950.00	389.03	-2.32620E+06	687.47	-2.97929E+06	163.81
1000.0	397.48	-2.30653E+06	707.64	-3.01417E+06	157.44

BiSe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.455	1.73841E+05	269.43	93511.	-16.382
300.00	36.472	1.73908E+05	269.65	93013.	-16.195
350.00	36.824	1.75742E+05	275.30	79385.	-11.847
400.00	37.045	1.77589E+05	280.24	65494.	-8.5525
450.00	37.193	1.79445E+05	284.61	51371.	-5.9629
500.00	37.297	1.81307E+05	288.53	37041.	-3.8695
550.00	37.373	1.83174E+05	292.09	22524.	-2.1391
600.00	37.432	1.85044E+05	295.35	7836.8	-0.68224
650.00	37.479	1.86917E+05	298.34	-7006.4	0.56303
700.00	37.520	1.88792E+05	301.12	-21994.	1.6412
750.00	37.557	1.90669E+05	303.71	-37116.	2.5849
800.00	37.592	1.92548E+05	306.14	-52362.	3.4188
850.00	37.626	1.94428E+05	308.42	-67727.	4.1619
900.00	37.661	1.96310E+05	310.57	-83202.	4.8288
950.00	37.697	1.98194E+05	312.61	-98782.	5.4313
1000.0	37.735	2.00080E+05	314.54	-1.14461E+05	5.9787
1050.0	37.775	2.01968E+05	316.38	-1.30234E+05	6.4786
1100.0	37.818	2.03858E+05	318.14	-1.46098E+05	6.9374
1150.0	37.863	2.05750E+05	319.82	-1.62047E+05	7.3602
1200.0	37.912	2.07644E+05	321.44	-1.78079E+05	7.7514
1250.0	37.964	2.09541E+05	322.98	-1.94190E+05	8.1145
1300.0	38.019	2.11440E+05	324.47	-2.10377E+05	8.4528
1350.0	38.077	2.13343E+05	325.91	-2.26636E+05	8.7689
1400.0	38.140	2.15248E+05	327.30	-2.42967E+05	9.0650
1450.0	38.206	2.17157E+05	328.64	-2.59365E+05	9.3431
1500.0	38.276	2.19069E+05	329.93	-2.75830E+05	9.6050
1550.0	38.349	2.20985E+05	331.19	-2.92358E+05	9.8521
1600.0	38.427	2.22904E+05	332.41	-3.08948E+05	10.086
1650.0	38.508	2.24827E+05	333.59	-3.25598E+05	10.307
1700.0	38.593	2.26755E+05	334.74	-3.42307E+05	10.518
1750.0	38.683	2.28687E+05	335.86	-3.59072E+05	10.717
1800.0	38.776	2.30623E+05	336.95	-3.75892E+05	10.908
1850.0	38.873	2.32564E+05	338.02	-3.92767E+05	11.089
1900.0	38.974	2.34511E+05	339.05	-4.09694E+05	11.263
1950.0	39.080	2.36462E+05	340.07	-4.26672E+05	11.429
2000.0	39.189	2.38419E+05	341.06	-4.43700E+05	11.588
2050.0	39.303	2.40381E+05	342.03	-4.60777E+05	11.740
2100.0	39.422	2.42349E+05	342.98	-4.77902E+05	11.887
2150.0	39.532	2.44323E+05	343.91	-4.95075E+05	12.028
2200.0	39.659	2.46302E+05	344.82	-5.12293E+05	12.163
2250.0	39.803	2.48289E+05	345.71	-5.29556E+05	12.294
2300.0	39.962	2.50283E+05	346.59	-5.46863E+05	12.419
2350.0	40.133	2.52285E+05	347.45	-5.64214E+05	12.541
2400.0	40.316	2.54296E+05	348.29	-5.81608E+05	12.658
2450.0	40.509	2.56317E+05	349.13	-5.99043E+05	12.771
2500.0	40.711	2.58347E+05	349.95	-6.16520E+05	12.881
2550.0	40.921	2.60388E+05	350.76	-6.34038E+05	12.987
2600.0	41.138	2.62440E+05	351.55	-6.51596E+05	13.090
2650.0	41.361	2.64502E+05	352.34	-6.69193E+05	13.190
2700.0	41.590	2.66576E+05	353.11	-6.86829E+05	13.287
2750.0	41.823	2.68661E+05	353.88	-7.04504E+05	13.381
2800.0	42.060	2.70758E+05	354.63	-7.22217E+05	13.473
2850.0	42.300	2.72867E+05	355.38	-7.39967E+05	13.562
2900.0	42.543	2.74988E+05	356.12	-7.57755E+05	13.648
2950.0	42.788	2.77122E+05	356.85	-7.75579E+05	13.733
3000.0	43.036	2.79267E+05	357.57	-7.93439E+05	13.815

Bi2Se3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	101.41	-1.39955E+05	239.74	-2.11434E+05	37.041
300.00	101.50	-1.39767E+05	240.37	-2.11878E+05	36.890
350.00	103.95	-1.34631E+05	256.20	-2.24301E+05	33.474
400.00	106.40	-1.29372E+05	270.24	-2.37469E+05	31.009
450.00	108.85	-1.23991E+05	282.92	-2.51303E+05	29.170
500.00	111.29	-1.18487E+05	294.51	-2.65742E+05	27.761
550.00	113.74	-1.12861E+05	305.23	-2.80739E+05	26.662
600.00	116.19	-1.07113E+05	315.23	-2.96254E+05	25.791
650.00	118.64	-1.01242E+05	324.63	-3.12252E+05	25.092
700.00	121.08	-95249.	333.51	-3.28708E+05	24.528
750.00	123.53	-89134.	341.95	-3.45596E+05	24.069
800.00	125.98	-82896.	350.00	-3.62897E+05	23.694
850.00	128.43	-76536.	357.71	-3.80591E+05	23.388
900.00	130.88	-70053.	365.12	-3.98663E+05	23.137
950.00	133.32	-63448.	372.26	-4.17098E+05	22.933
995.00	135.53	-57399.	378.48	-4.33991E+05	22.783
995.00	188.28	28373.	464.69	-4.33991E+05	22.783
1000.0	188.28	29314.	465.63	-4.36317E+05	22.790
1050.0	188.28	38728.	474.82	-4.59830E+05	22.875
1100.0	188.28	48142.	483.58	-4.83791E+05	22.973

BiTe<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.873	1.83934E+05	277.22	1.01280E+05	-17.743
300.00	36.885	1.84002E+05	277.45	1.00767E+05	-17.545
350.00	37.144	1.85853E+05	283.16	86748.	-12.946
400.00	37.308	1.87715E+05	288.13	72463.	-9.4625
450.00	37.418	1.89583E+05	292.53	57945.	-6.7259
500.00	37.496	1.91456E+05	296.48	43218.	-4.5148
550.00	37.555	1.93333E+05	300.05	28303.	-2.6879
600.00	37.601	1.95212E+05	303.32	13218.	-1.1507
650.00	37.641	1.97093E+05	306.33	-2024.9	0.16272
700.00	37.676	1.98976E+05	309.13	-17412.	1.2993
750.00	37.709	2.00860E+05	311.73	-32934.	2.2937
800.00	37.742	2.02747E+05	314.16	-48582.	3.1720
850.00	37.775	2.04634E+05	316.45	-64348.	3.9542
900.00	37.809	2.06524E+05	318.61	-80225.	4.6560
950.00	37.845	2.08415E+05	320.66	-96207.	5.2897
1000.0	37.883	2.10309E+05	322.60	-1.12289E+05	5.8652
1050.0	37.924	2.12204E+05	324.45	-1.28465E+05	6.3906
1100.0	37.968	2.14101E+05	326.21	-1.44732E+05	6.8726
1150.0	38.014	2.16001E+05	327.90	-1.61085E+05	7.3165
1200.0	38.064	2.17903E+05	329.52	-1.77521E+05	7.7271
1250.0	38.117	2.19807E+05	331.07	-1.94036E+05	8.1081
1300.0	38.174	2.21714E+05	332.57	-2.10627E+05	8.4629
1350.0	38.234	2.23624E+05	334.01	-2.27292E+05	8.7942
1400.0	38.297	2.25538E+05	335.40	-2.44028E+05	9.1046
1450.0	38.365	2.27454E+05	336.75	-2.60832E+05	9.3959
1500.0	38.435	2.29374E+05	338.05	-2.77702E+05	9.6702
1550.0	38.510	2.31298E+05	339.31	-2.94636E+05	9.9289
1600.0	38.589	2.33225E+05	340.54	-3.11633E+05	10.174
1650.0	38.671	2.35157E+05	341.72	-3.28689E+05	10.405
1700.0	38.757	2.37092E+05	342.88	-3.45805E+05	10.625
1750.0	38.847	2.39032E+05	344.01	-3.62977E+05	10.834
1800.0	38.940	2.40977E+05	345.10	-3.80205E+05	11.033
1850.0	39.038	2.42927E+05	346.17	-3.97486E+05	11.223
1900.0	39.139	2.44881E+05	347.21	-4.14821E+05	11.404
1950.0	39.245	2.46841E+05	348.23	-4.32207E+05	11.577
2000.0	39.354	2.48806E+05	349.22	-4.49644E+05	11.743
2050.0	39.467	2.50776E+05	350.20	-4.67129E+05	11.902
2100.0	39.586	2.52752E+05	351.15	-4.84663E+05	12.055
2150.0	39.700	2.54734E+05	352.08	-5.02244E+05	12.202
2200.0	39.834	2.56723E+05	353.00	-5.19871E+05	12.343
2250.0	39.986	2.58718E+05	353.89	-5.37543E+05	12.479
2300.0	40.154	2.60721E+05	354.77	-5.55260E+05	12.610
2350.0	40.336	2.62734E+05	355.64	-5.73021E+05	12.736
2400.0	40.531	2.64755E+05	356.49	-5.90824E+05	12.859
2450.0	40.736	2.66787E+05	357.33	-6.08670E+05	12.977
2500.0	40.950	2.68829E+05	358.15	-6.26557E+05	13.091
2550.0	41.173	2.70882E+05	358.97	-6.44485E+05	13.201
2600.0	41.403	2.72946E+05	359.77	-6.62453E+05	13.309
2650.0	41.639	2.75023E+05	360.56	-6.80462E+05	13.412
2700.0	41.880	2.77110E+05	361.34	-6.98509E+05	13.513
2750.0	42.126	2.79211E+05	362.11	-7.16595E+05	13.611
2800.0	42.374	2.81323E+05	362.87	-7.34720E+05	13.706
2850.0	42.626	2.83448E+05	363.62	-7.52883E+05	13.798
2900.0	42.880	2.85586E+05	364.37	-7.71082E+05	13.888
2950.0	43.136	2.87736E+05	365.10	-7.89319E+05	13.976
3000.0	43.393	2.89899E+05	365.83	-8.07593E+05	14.061

Bi2Te3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	124.40	-81000.	261.04	-1.58829E+05	27.825
300.00	124.46	-80770.	261.81	-1.59313E+05	27.738
350.00	126.39	-74500.	281.14	-1.72898E+05	25.803
400.00	128.53	-68127.	298.15	-1.87388E+05	24.470
450.00	130.79	-61644.	313.42	-2.02684E+05	23.526
500.00	133.13	-55046.	327.32	-2.18707E+05	22.848
550.00	135.52	-48330.	340.12	-2.35398E+05	22.356
600.00	137.94	-41494.	352.02	-2.52705E+05	21.999
650.00	140.39	-34535.	363.16	-2.70587E+05	21.744
700.00	142.85	-27454.	373.65	-2.89010E+05	21.566
750.00	145.33	-20250.	383.59	-3.07943E+05	21.447
800.00	147.81	-12922.	393.05	-3.27361E+05	21.374
850.00	150.30	-5468.7	402.08	-3.47241E+05	21.338
859.00	150.75	-4114.1	403.67	-3.50866E+05	21.335
859.00	220.00	1.15886E+05	543.37	-3.50867E+05	21.335
900.00	220.00	1.24906E+05	553.63	-3.73357E+05	21.669
950.00	220.00	1.35906E+05	565.52	-4.01338E+05	22.067
1000.0	220.00	1.46906E+05	576.80	-4.29898E+05	22.455
1050.0	220.00	1.57906E+05	587.54	-4.59009E+05	22.834
1100.0	220.00	1.68906E+05	597.77	-4.88644E+05	23.203
1150.0	220.00	1.79906E+05	607.55	-5.18779E+05	23.563
1200.0	220.00	1.90906E+05	616.92	-5.49392E+05	23.914
1250.0	220.00	2.01906E+05	625.90	-5.80464E+05	24.256
1300.0	220.00	2.12906E+05	634.52	-6.11976E+05	24.589
1350.0	220.00	2.23906E+05	642.83	-6.43911E+05	24.914
1400.0	220.00	2.34906E+05	650.83	-6.76254E+05	25.231
1450.0	220.00	2.45906E+05	658.55	-7.08989E+05	25.540
1500.0	220.00	2.56906E+05	666.01	-7.42104E+05	25.842
1550.0	220.00	2.67906E+05	673.22	-7.75586E+05	26.136
1600.0	220.00	2.78906E+05	680.21	-8.09422E+05	26.424
1650.0	220.00	2.89906E+05	686.97	-8.43603E+05	26.706
1700.0	220.00	3.00906E+05	693.54	-8.78117E+05	26.981
1750.0	220.00	3.11906E+05	699.92	-9.12954E+05	27.249
1800.0	220.00	3.22906E+05	706.12	-9.48105E+05	27.513
1850.0	220.00	3.33906E+05	712.15	-9.83563E+05	27.770
1900.0	220.00	3.44906E+05	718.01	-1.01932E+06	28.022
1950.0	220.00	3.55906E+05	723.73	-1.05536E+06	28.269
2000.0	220.00	3.66906E+05	729.30	-1.09169E+06	28.511
2050.0	220.00	3.77906E+05	734.73	-1.12829E+06	28.748
2100.0	220.00	3.88906E+05	740.03	-1.16516E+06	28.981
2150.0	220.00	3.99906E+05	745.21	-1.20229E+06	29.209
2200.0	220.00	4.10906E+05	750.27	-1.23968E+06	29.433
2250.0	220.00	4.21906E+05	755.21	-1.27731E+06	29.653
2300.0	220.00	4.32906E+05	760.04	-1.31520E+06	29.868
2350.0	220.00	4.43906E+05	764.78	-1.35332E+06	30.080
2400.0	220.00	4.54906E+05	769.41	-1.39167E+06	30.288
2450.0	220.00	4.65906E+05	773.94	-1.43026E+06	30.493
2500.0	220.00	4.76906E+05	778.39	-1.46907E+06	30.694
2550.0	220.00	4.87906E+05	782.74	-1.50809E+06	30.891
2600.0	220.00	4.98906E+05	787.02	-1.54734E+06	31.086
2650.0	220.00	5.09906E+05	791.21	-1.58679E+06	31.277
2700.0	220.00	5.20906E+05	795.32	-1.62646E+06	31.465
2750.0	220.00	5.31906E+05	799.36	-1.66632E+06	31.650
2800.0	220.00	5.42906E+05	803.32	-1.70639E+06	31.832
2850.0	220.00	5.53906E+05	807.21	-1.74666E+06	32.012
2900.0	220.00	5.64906E+05	811.04	-1.78711E+06	32.189
2950.0	220.00	5.75906E+05	814.80	-1.82776E+06	32.363
3000.0	220.00	5.86906E+05	818.50	-1.86859E+06	32.534

C

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	8.5352	0.00000E+00	5.7423	-1712.1	0.29994
300.00	8.5921	15.843	5.7953	-1722.7	0.29995
350.00	10.190	485.07	7.2387	-2048.5	0.30571
400.00	11.793	1034.9	8.7047	-2447.0	0.31954
450.00	13.298	1662.7	10.182	-2919.1	0.33884
500.00	14.654	2362.2	11.655	-3465.1	0.36199
550.00	15.851	3125.7	13.109	-4084.3	0.38788
600.00	16.868	3944.3	14.533	-4775.5	0.41573
650.00	17.747	4810.2	15.919	-5537.0	0.44494
700.00	18.516	5717.2	17.263	-6366.7	0.47507
750.00	19.193	6660.2	18.564	-7262.5	0.50579
800.00	19.791	7635.2	19.822	-8222.3	0.53685
850.00	20.319	8638.2	21.038	-9244.0	0.56805
900.00	20.785	9666.0	22.213	-10325.	0.59926
950.00	21.190	10716.	23.348	-11465.	0.63035
1000.0	21.571	11785.	24.444	-12660.	0.66125
1050.0	21.910	12872.	25.505	-13908.	0.69189
1100.0	22.213	13975.	26.532	-15210.	0.72222
1150.0	22.486	15093.	27.525	-16561.	0.75221
1200.0	22.734	16223.	28.487	-17962.	0.78182
1250.0	22.962	17366.	29.420	-19409.	0.81105
1300.0	23.171	18519.	30.325	-20903.	0.83987
1350.0	23.365	19683.	31.203	-22441.	0.86829
1400.0	23.546	20856.	32.056	-24023.	0.89628
1450.0	23.715	22037.	32.885	-25647.	0.92387
1500.0	23.874	23227.	33.692	-27311.	0.95103
1550.0	24.024	24425.	34.477	-29015.	0.97779
1600.0	24.165	25629.	35.242	-30759.	1.0041
1650.0	24.300	26841.	35.988	-32539.	1.0301
1700.0	24.428	28059.	36.715	-34357.	1.0556
1750.0	24.550	29284.	37.425	-36211.	1.0808
1800.0	24.668	30514.	38.119	-38099.	1.1056
1850.0	24.780	31750.	38.796	-40022.	1.1300
1900.0	24.888	32992.	39.458	-41979.	1.1540
1950.0	24.993	34239.	40.106	-43968.	1.1777
2000.0	25.093	35491.	40.740	-45989.	1.2011
2050.0	25.190	36748.	41.361	-48042.	1.2241
2100.0	25.284	38010.	41.969	-50125.	1.2468
2150.0	25.376	39277.	42.565	-52238.	1.2691
2200.0	25.464	40548.	43.150	-54381.	1.2911
2250.0	25.550	41823.	43.723	-56553.	1.3129
2300.0	25.634	43103.	44.285	-58753.	1.3343
2350.0	25.715	44386.	44.837	-60981.	1.3554
2400.0	25.795	45674.	45.380	-63237.	1.3763
2450.0	25.872	46966.	45.912	-65519.	1.3969
2500.0	25.947	48261.	46.436	-67828.	1.4172
2550.0	26.021	49561.	46.950	-70163.	1.4372
2600.0	26.093	50863.	47.456	-72523.	1.4570
2650.0	26.163	52170.	47.954	-74908.	1.4765
2700.0	26.232	53480.	48.444	-77318.	1.4958
2750.0	26.299	54793.	48.926	-79752.	1.5148
2800.0	26.365	56110.	49.400	-82211.	1.5336
2850.0	26.429	57429.	49.867	-84692.	1.5522
2900.0	26.493	58753.	50.327	-87197.	1.5706
2950.0	26.557	60079.	50.781	-89725.	1.5887
3000.0	26.621	61408.	51.228	-92275.	1.6066

C<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.836	7.16680E+05	158.10	6.69543E+05	-117.30
300.00	20.836	7.16719E+05	158.23	6.69250E+05	-116.52
350.00	20.833	7.17760E+05	161.44	6.61256E+05	-98.685
400.00	20.827	7.18802E+05	164.22	6.53113E+05	-85.286
450.00	20.820	7.19843E+05	166.67	6.44840E+05	-74.849
500.00	20.812	7.20884E+05	168.87	6.36450E+05	-66.488
550.00	20.805	7.21924E+05	170.85	6.27957E+05	-59.637
600.00	20.798	7.22964E+05	172.66	6.19368E+05	-53.919
650.00	20.792	7.24004E+05	174.32	6.10693E+05	-49.075
700.00	20.787	7.25044E+05	175.87	6.01938E+05	-44.916
750.00	20.783	7.26083E+05	177.30	5.93108E+05	-41.307
800.00	20.779	7.27122E+05	178.64	5.84209E+05	-38.144
850.00	20.776	7.28161E+05	179.90	5.75246E+05	-35.349
900.00	20.774	7.29199E+05	181.09	5.66221E+05	-32.862
950.00	20.773	7.30238E+05	182.21	5.57138E+05	-30.633
1000.0	20.773	7.31277E+05	183.28	5.48001E+05	-28.624
1050.0	20.774	7.32315E+05	184.29	5.38811E+05	-26.804
1100.0	20.776	7.33354E+05	185.26	5.29572E+05	-25.147
1150.0	20.779	7.34393E+05	186.18	5.20286E+05	-23.632
1200.0	20.782	7.35432E+05	187.06	5.10955E+05	-22.241
1250.0	20.787	7.36471E+05	187.91	5.01580E+05	-20.959
1300.0	20.793	7.37511E+05	188.73	4.92164E+05	-19.775
1350.0	20.800	7.38551E+05	189.51	4.82708E+05	-18.677
1400.0	20.808	7.39591E+05	190.27	4.73213E+05	-17.655
1450.0	20.816	7.40631E+05	191.00	4.63682E+05	-16.703
1500.0	20.826	7.41672E+05	191.71	4.54114E+05	-15.813
1550.0	20.837	7.42714E+05	192.39	4.44511E+05	-14.980
1600.0	20.849	7.43756E+05	193.05	4.34875E+05	-14.197
1650.0	20.861	7.44799E+05	193.69	4.25207E+05	-13.461
1700.0	20.875	7.45842E+05	194.32	4.15506E+05	-12.767
1750.0	20.890	7.46886E+05	194.92	4.05776E+05	-12.111
1800.0	20.905	7.47931E+05	195.51	3.96015E+05	-11.492
1850.0	20.922	7.48977E+05	196.08	3.86225E+05	-10.905
1900.0	20.940	7.50023E+05	196.64	3.76407E+05	-10.348
1950.0	20.959	7.51071E+05	197.18	3.66561E+05	-9.8188
2000.0	20.978	7.52119E+05	197.72	3.56689E+05	-9.3155
2050.0	20.999	7.53169E+05	198.23	3.46790E+05	-8.8361
2100.0	21.021	7.54219E+05	198.74	3.36865E+05	-8.3789
2150.0	21.043	7.55271E+05	199.23	3.26916E+05	-7.9423
2200.0	21.067	7.56324E+05	199.72	3.16942E+05	-7.5250
2250.0	21.092	7.57378E+05	200.19	3.06944E+05	-7.1257
2300.0	21.118	7.58433E+05	200.66	2.96923E+05	-6.7432
2350.0	21.144	7.59489E+05	201.11	2.86879E+05	-6.3764
2400.0	21.172	7.60547E+05	201.56	2.76812E+05	-6.0245
2450.0	21.201	7.61607E+05	201.99	2.66723E+05	-5.6865
2500.0	21.230	7.62667E+05	202.42	2.56613E+05	-5.3615
2550.0	21.261	7.63730E+05	202.84	2.46481E+05	-5.0488
2600.0	21.293	7.64793E+05	203.26	2.36329E+05	-4.7478
2650.0	21.326	7.65859E+05	203.66	2.26156E+05	-4.4577
2700.0	21.359	7.66926E+05	204.06	2.15963E+05	-4.1779
2750.0	21.394	7.67995E+05	204.45	2.05750E+05	-3.9080
2800.0	21.430	7.69065E+05	204.84	1.95517E+05	-3.6473
2850.0	21.467	7.70138E+05	205.22	1.85266E+05	-3.3955
2900.0	21.504	7.71212E+05	205.59	1.74996E+05	-3.1519
2950.0	21.543	7.72288E+05	205.96	1.64707E+05	-2.9163
3000.0	21.583	7.73366E+05	206.32	1.54400E+05	-2.6883

C2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	43.552	8.30457E+05	197.10	7.71693E+05	-135.19
300.00	43.571	8.30538E+05	197.36	7.71328E+05	-134.30
350.00	43.289	8.32714E+05	204.08	7.61288E+05	-113.61
400.00	42.169	8.34853E+05	209.79	7.50937E+05	-98.060
450.00	40.811	8.36928E+05	214.68	7.40323E+05	-85.932
500.00	39.528	8.38935E+05	218.91	7.29480E+05	-76.206
550.00	38.558	8.40886E+05	222.63	7.18440E+05	-68.230
600.00	37.875	8.42796E+05	225.95	7.07224E+05	-61.568
650.00	37.392	8.44677E+05	228.96	6.95850E+05	-55.918
700.00	37.054	8.46537E+05	231.72	6.84332E+05	-51.064
750.00	36.823	8.48384E+05	234.27	6.72681E+05	-46.849
800.00	36.673	8.50221E+05	236.64	6.60908E+05	-43.152
850.00	36.584	8.52052E+05	238.86	6.49020E+05	-39.883
900.00	36.543	8.53880E+05	240.95	6.37024E+05	-36.971
950.00	36.539	8.55707E+05	242.93	6.24926E+05	-34.360
1000.0	36.565	8.57535E+05	244.80	6.12733E+05	-32.005
1050.0	36.614	8.59364E+05	246.59	6.00448E+05	-29.870
1100.0	36.683	8.61196E+05	248.29	5.88075E+05	-27.925
1150.0	36.767	8.63033E+05	249.92	5.75620E+05	-26.145
1200.0	36.863	8.64873E+05	251.49	5.63084E+05	-24.510
1250.0	36.970	8.66719E+05	253.00	5.50472E+05	-23.002
1300.0	37.084	8.68570E+05	254.45	5.37785E+05	-21.608
1350.0	37.206	8.70428E+05	255.85	5.25028E+05	-20.314
1400.0	37.332	8.72291E+05	257.21	5.12201E+05	-19.110
1450.0	37.463	8.74161E+05	258.52	4.99308E+05	-17.987
1500.0	37.598	8.76037E+05	259.79	4.86350E+05	-16.936
1550.0	37.735	8.77921E+05	261.03	4.73329E+05	-15.951
1600.0	37.874	8.79811E+05	262.23	4.60247E+05	-15.025
1650.0	38.015	8.81708E+05	263.39	4.47107E+05	-14.154
1700.0	38.156	8.83612E+05	264.53	4.33908E+05	-13.332
1750.0	38.299	8.85524E+05	265.64	4.20654E+05	-12.556
1800.0	38.441	8.87442E+05	266.72	4.07345E+05	-11.821
1850.0	38.584	8.89368E+05	267.78	3.93982E+05	-11.124
1900.0	38.726	8.91301E+05	268.81	3.80568E+05	-10.462
1950.0	38.868	8.93241E+05	269.81	3.67102E+05	-9.8333
2000.0	39.009	8.95187E+05	270.80	3.53587E+05	-9.2345
2050.0	39.149	8.97141E+05	271.77	3.40022E+05	-8.6637
2100.0	39.288	8.99102E+05	272.71	3.26410E+05	-8.1188
2150.0	39.427	9.01070E+05	273.64	3.12752E+05	-7.5982
2200.0	39.563	9.03045E+05	274.54	2.99047E+05	-7.1001
2250.0	39.699	9.05027E+05	275.44	2.85298E+05	-6.6231
2300.0	39.833	9.07015E+05	276.31	2.71504E+05	-6.1659
2350.0	39.965	9.09010E+05	277.17	2.57667E+05	-5.7271
2400.0	40.096	9.11011E+05	278.01	2.43787E+05	-5.3058
2450.0	40.225	9.13019E+05	278.84	2.29866E+05	-4.9007
2500.0	40.352	9.15034E+05	279.65	2.15904E+05	-4.5109
2550.0	40.478	9.17055E+05	280.45	2.01901E+05	-4.1357
2600.0	40.601	9.19082E+05	281.24	1.87859E+05	-3.7740
2650.0	40.723	9.21115E+05	282.01	1.73777E+05	-3.4253
2700.0	40.843	9.23154E+05	282.78	1.59658E+05	-3.0887
2750.0	40.960	9.25199E+05	283.53	1.45500E+05	-2.7636
2800.0	41.076	9.27250E+05	284.27	1.31305E+05	-2.4495
2850.0	41.190	9.29307E+05	284.99	1.17074E+05	-2.1457
2900.0	41.301	9.31369E+05	285.71	1.02806E+05	-1.8517
2950.0	41.410	9.33437E+05	286.42	88503.	-1.5670
3000.0	41.518	9.35510E+05	287.12	74164.	-1.2913

C3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	42.199	8.39958E+05	237.61	7.69115E+05	-134.74
300.00	42.213	8.40036E+05	237.87	7.68675E+05	-133.83
350.00	42.730	8.42159E+05	244.41	7.56614E+05	-112.92
400.00	43.401	8.44312E+05	250.16	7.44247E+05	-97.186
450.00	44.139	8.46500E+05	255.32	7.31607E+05	-84.921
500.00	44.899	8.48726E+05	260.01	7.18723E+05	-75.083
550.00	45.655	8.50990E+05	264.32	7.05613E+05	-67.012
600.00	46.390	8.53291E+05	268.33	6.92296E+05	-60.268
650.00	47.096	8.55628E+05	272.07	6.78785E+05	-54.546
700.00	47.765	8.58000E+05	275.58	6.65093E+05	-49.629
750.00	48.394	8.60404E+05	278.90	6.51230E+05	-45.355
800.00	48.979	8.62839E+05	282.04	6.37206E+05	-41.604
850.00	49.518	8.65301E+05	285.03	6.23028E+05	-38.286
900.00	50.009	8.67790E+05	287.87	6.08705E+05	-35.327
950.00	50.452	8.70301E+05	290.59	5.94243E+05	-32.673
1000.0	50.843	8.72834E+05	293.19	5.79648E+05	-30.277
1050.0	51.260	8.75387E+05	295.68	5.64927E+05	-28.103
1100.0	51.616	8.77959E+05	298.07	5.50082E+05	-26.121
1150.0	51.923	8.80548E+05	300.37	5.35121E+05	-24.305
1200.0	52.190	8.83151E+05	302.59	5.20047E+05	-22.636
1250.0	52.424	8.85766E+05	304.72	5.04864E+05	-21.097
1300.0	52.632	8.88393E+05	306.78	4.89576E+05	-19.671
1350.0	52.818	8.91029E+05	308.77	4.74187E+05	-18.347
1400.0	52.987	8.93674E+05	310.70	4.58700E+05	-17.114
1450.0	53.141	8.96327E+05	312.56	4.43118E+05	-15.962
1500.0	53.285	8.98988E+05	314.36	4.27445E+05	-14.885
1550.0	53.419	9.01656E+05	316.11	4.11683E+05	-13.873
1600.0	53.547	9.04330E+05	317.81	3.95835E+05	-12.922
1650.0	53.670	9.07010E+05	319.46	3.79903E+05	-12.026
1700.0	53.789	9.09697E+05	321.06	3.63889E+05	-11.181
1750.0	53.906	9.12389E+05	322.62	3.47797E+05	-10.381
1800.0	54.022	9.15087E+05	324.14	3.31628E+05	-9.6233
1850.0	54.137	9.17791E+05	325.63	3.15383E+05	-8.9046
1900.0	54.253	9.20501E+05	327.07	2.99066E+05	-8.2217
1950.0	54.370	9.23217E+05	328.48	2.82677E+05	-7.5719
2000.0	54.489	9.25938E+05	329.86	2.66218E+05	-6.9527
2050.0	54.610	9.28666E+05	331.21	2.49691E+05	-6.3620
2100.0	54.735	9.31399E+05	332.52	2.33098E+05	-5.7978
2150.0	54.862	9.34139E+05	333.81	2.16439E+05	-5.2583
2200.0	54.993	9.36886E+05	335.08	1.99717E+05	-4.7418
2250.0	55.129	9.39639E+05	336.31	1.82932E+05	-4.2467
2300.0	55.269	9.42399E+05	337.53	1.66086E+05	-3.7718
2350.0	55.413	9.45166E+05	338.72	1.49180E+05	-3.3158
2400.0	55.563	9.47940E+05	339.89	1.32214E+05	-2.8775
2450.0	55.717	9.50722E+05	341.03	1.15191E+05	-2.4558
2500.0	55.877	9.53512E+05	342.16	98112.	-2.0499
2550.0	56.042	9.56310E+05	343.27	80976.	-1.6587
2600.0	56.213	9.59116E+05	344.36	63785.	-1.2814
2650.0	56.390	9.61931E+05	345.43	46540.	-0.91734
2700.0	56.573	9.64755E+05	346.49	29242.	-0.56571
2750.0	56.761	9.67588E+05	347.53	11892.	-0.22587
2800.0	56.959	9.70431E+05	348.55	-5510.1	0.10279
2850.0	57.146	9.73284E+05	349.56	-22963.	0.42085
2900.0	57.354	9.76146E+05	350.56	-40466.	0.72885
2950.0	57.580	9.79020E+05	351.54	-58018.	1.0273
3000.0	57.824	9.81905E+05	352.51	-75620.	1.3166

CH4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.692	-74600.	186.37	-1.30166E+05	22.804
300.00	35.758	-74534.	186.59	-1.30511E+05	22.723
350.00	37.957	-72694.	192.26	-1.39984E+05	20.891
400.00	40.659	-70730.	197.50	-1.49729E+05	19.552
450.00	43.598	-68624.	202.46	-1.59729E+05	18.540
500.00	46.635	-66369.	207.21	-1.69971E+05	17.756
550.00	49.691	-63960.	211.79	-1.80447E+05	17.137
600.00	52.718	-61400.	216.25	-1.91149E+05	16.641
650.00	55.687	-58689.	220.59	-2.02070E+05	16.238
700.00	58.578	-55833.	224.82	-2.13205E+05	15.909
750.00	61.376	-52833.	228.96	-2.24550E+05	15.639
800.00	64.074	-49697.	233.00	-2.36099E+05	15.415
850.00	66.664	-46428.	236.97	-2.47849E+05	15.231
900.00	69.142	-43032.	240.85	-2.59795E+05	15.078
950.00	71.504	-39515.	244.65	-2.71932E+05	14.952
1000.0	73.746	-35884.	248.37	-2.84258E+05	14.848
1050.0	75.935	-32141.	252.03	-2.96769E+05	14.763
1100.0	77.982	-28292.	255.61	-3.09460E+05	14.695
1150.0	79.904	-24345.	259.12	-3.22328E+05	14.640
1200.0	81.717	-20304.	262.56	-3.35370E+05	14.598
1250.0	83.433	-16175.	265.93	-3.48583E+05	14.566
1300.0	85.059	-11962.	269.23	-3.61962E+05	14.543
1350.0	86.605	-7670.2	272.47	-3.75505E+05	14.529
1400.0	88.077	-3302.8	275.65	-3.89208E+05	14.521
1450.0	89.479	1136.3	278.76	-4.03068E+05	14.520
1500.0	90.816	5644.0	281.82	-4.17083E+05	14.524
1550.0	92.093	10217.	284.82	-4.31249E+05	14.533
1600.0	93.312	14852.	287.76	-4.45564E+05	14.546
1650.0	94.476	19547.	290.65	-4.60024E+05	14.563
1700.0	95.586	24299.	293.49	-4.74628E+05	14.583
1750.0	96.646	29105.	296.27	-4.89372E+05	14.607
1800.0	97.657	33963.	299.01	-5.04254E+05	14.633
1850.0	98.620	38870.	301.70	-5.19272E+05	14.661
1900.0	99.537	43824.	304.34	-5.34423E+05	14.692
1950.0	100.41	48823.	306.94	-5.49705E+05	14.725
2000.0	101.23	53864.	309.49	-5.65116E+05	14.759
2050.0	102.07	58947.	312.00	-5.80654E+05	14.795
2100.0	102.87	64071.	314.47	-5.96316E+05	14.832
2150.0	103.64	69233.	316.90	-6.12100E+05	14.871
2200.0	104.37	74434.	319.29	-6.28005E+05	14.910
2250.0	105.08	79670.	321.64	-6.44028E+05	14.951
2300.0	105.76	84941.	323.96	-6.60169E+05	14.993
2350.0	106.42	90246.	326.24	-6.76424E+05	15.035
2400.0	107.05	95582.	328.49	-6.92792E+05	15.078
2450.0	107.67	1.00951E+05	330.70	-7.09272E+05	15.121
2500.0	108.27	1.06349E+05	332.88	-7.25862E+05	15.166
2550.0	108.85	1.11777E+05	335.03	-7.42560E+05	15.210
2600.0	109.42	1.17234E+05	337.15	-7.59365E+05	15.255
2650.0	109.97	1.22719E+05	339.24	-7.76275E+05	15.301
2700.0	110.51	1.28231E+05	341.30	-7.93289E+05	15.347
2750.0	111.04	1.33770E+05	343.34	-8.10405E+05	15.393
2800.0	111.56	1.39335E+05	345.34	-8.27622E+05	15.439
2850.0	112.07	1.44926E+05	347.32	-8.44939E+05	15.486
2900.0	112.56	1.50542E+05	349.27	-8.62354E+05	15.532
2950.0	113.05	1.56182E+05	351.20	-8.79866E+05	15.579
3000.0	113.53	1.61847E+05	353.11	-8.97474E+05	15.626

C2H6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.472	-84000.	229.16	-1.52324E+05	26.686
300.00	52.707	-83903.	229.49	-1.52749E+05	26.595
350.00	59.134	-81107.	238.09	-1.64439E+05	24.541
400.00	65.549	-77990.	246.41	-1.76553E+05	23.055
450.00	71.813	-74555.	254.49	-1.89076E+05	21.947
500.00	77.853	-70812.	262.37	-2.01999E+05	21.102
550.00	83.626	-66774.	270.07	-2.15311E+05	20.448
600.00	89.107	-62454.	277.58	-2.29003E+05	19.936
650.00	94.281	-57868.	284.92	-2.43066E+05	19.533
700.00	99.136	-53032.	292.09	-2.57492E+05	19.214
750.00	103.74	-47958.	299.08	-2.72272E+05	18.962
800.00	108.02	-42663.	305.92	-2.87397E+05	18.765
850.00	112.00	-37161.	312.59	-3.02861E+05	18.611
900.00	115.73	-31467.	319.10	-3.18654E+05	18.494
950.00	119.22	-25592.	325.45	-3.34768E+05	18.406
1000.0	122.51	-19548.	331.65	-3.51196E+05	18.344
1050.0	125.59	-13345.	337.70	-3.67930E+05	18.303
1100.0	128.50	-6991.8	343.61	-3.84964E+05	18.280
1150.0	131.22	-498.23	349.38	-4.02289E+05	18.272
1200.0	133.78	6127.4	355.02	-4.19900E+05	18.277
1250.0	136.17	12877.	360.53	-4.37789E+05	18.294
1300.0	138.40	19741.	365.92	-4.55951E+05	18.320
1350.0	140.48	26714.	371.18	-4.74379E+05	18.354
1400.0	142.40	33786.	376.32	-4.93067E+05	18.396
1450.0	144.27	40954.	381.35	-5.12009E+05	18.444
1500.0	146.00	48211.	386.27	-5.31200E+05	18.498
1550.0	147.59	55551.	391.09	-5.50635E+05	18.556
1600.0	149.07	62968.	395.80	-5.70307E+05	18.618
1650.0	150.45	70457.	400.41	-5.90213E+05	18.684
1700.0	151.73	78012.	404.92	-6.10346E+05	18.753
1750.0	152.94	85629.	409.33	-6.30703E+05	18.825
1800.0	154.06	93304.	413.66	-6.51278E+05	18.899
1850.0	155.12	1.01034E+05	417.89	-6.72067E+05	18.975
1900.0	156.12	1.08815E+05	422.04	-6.93066E+05	19.053
1950.0	157.06	1.16645E+05	426.11	-7.14270E+05	19.133
2000.0	157.95	1.24521E+05	430.10	-7.35676E+05	19.213
2050.0	158.79	1.32439E+05	434.01	-7.57279E+05	19.295
2100.0	159.59	1.40399E+05	437.84	-7.79075E+05	19.378
2150.0	160.34	1.48397E+05	441.61	-8.01062E+05	19.461
2200.0	161.06	1.56432E+05	445.30	-8.23235E+05	19.546
2250.0	161.74	1.64502E+05	448.93	-8.45591E+05	19.630
2300.0	162.38	1.72605E+05	452.49	-8.68127E+05	19.715
2350.0	163.00	1.80740E+05	455.99	-8.90839E+05	19.801
2400.0	163.58	1.88904E+05	459.43	-9.13725E+05	19.886
2450.0	164.14	1.97097E+05	462.81	-9.36781E+05	19.972
2500.0	164.66	2.05318E+05	466.13	-9.60005E+05	20.058
2550.0	165.17	2.13564E+05	469.39	-9.83393E+05	20.143
2600.0	165.65	2.21834E+05	472.61	-1.00694E+06	20.229
2650.0	166.10	2.30128E+05	475.77	-1.03065E+06	20.315
2700.0	166.53	2.38444E+05	478.88	-1.05452E+06	20.400
2750.0	166.95	2.46781E+05	481.93	-1.07854E+06	20.486
2800.0	167.34	2.55138E+05	484.95	-1.10271E+06	20.571
2850.0	167.71	2.63514E+05	487.91	-1.12703E+06	20.656
2900.0	168.06	2.71908E+05	490.83	-1.15150E+06	20.740
2950.0	168.39	2.80319E+05	493.71	-1.17612E+06	20.825
3000.0	168.70	2.88747E+05	496.54	-1.20087E+06	20.909

C2H2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	44.015	2.27400E+05	200.93	1.67494E+05	-29.343
300.00	44.168	2.27482E+05	201.20	1.67122E+05	-29.098
350.00	47.715	2.29783E+05	208.29	1.56883E+05	-23.413
400.00	50.469	2.32240E+05	214.84	1.46302E+05	-19.105
450.00	52.748	2.34822E+05	220.92	1.35406E+05	-15.717
500.00	54.721	2.37510E+05	226.59	1.24217E+05	-12.976
550.00	56.482	2.40291E+05	231.89	1.12753E+05	-10.708
600.00	58.088	2.43155E+05	236.87	1.01033E+05	-8.7955
650.00	59.575	2.46097E+05	241.58	89071.	-7.1577
700.00	60.967	2.49111E+05	246.05	76879.	-5.7367
750.00	62.279	2.52193E+05	250.30	64470.	-4.4900
800.00	63.524	2.55338E+05	254.36	51853.	-3.3856
850.00	64.708	2.58544E+05	258.24	39037.	-2.3989
900.00	65.839	2.61808E+05	261.97	26031.	-1.5108
950.00	66.920	2.65127E+05	265.56	12842.	-0.70610
1000.0	67.954	2.68499E+05	269.02	-522.92	2.7E-02
1050.0	68.944	2.71922E+05	272.36	-14058.	0.69933
1100.0	69.893	2.75393E+05	275.59	-27757.	1.3180
1150.0	70.800	2.78910E+05	278.72	-41615.	1.8902
1200.0	71.669	2.82472E+05	281.75	-55627.	2.4213
1250.0	72.499	2.86077E+05	284.69	-69789.	2.9162
1300.0	73.292	2.89722E+05	287.55	-84095.	3.3789
1350.0	74.048	2.93405E+05	290.33	-98543.	3.8128
1400.0	74.768	2.97126E+05	293.04	-1.13127E+05	4.2207
1450.0	75.452	3.00881E+05	295.67	-1.27845E+05	4.6054
1500.0	76.101	3.04670E+05	298.24	-1.42694E+05	4.9689
1550.0	76.714	3.08491E+05	300.75	-1.57669E+05	5.3133
1600.0	77.293	3.12341E+05	303.19	-1.72767E+05	5.6401
1650.0	77.837	3.16220E+05	305.58	-1.87987E+05	5.9510
1700.0	78.344	3.20124E+05	307.91	-2.03324E+05	6.2472
1750.0	78.881	3.24055E+05	310.19	-2.18777E+05	6.5300
1800.0	79.382	3.28012E+05	312.42	-2.34343E+05	6.8003
1850.0	79.851	3.31993E+05	314.60	-2.50018E+05	7.0591
1900.0	80.290	3.35996E+05	316.74	-2.65802E+05	7.3072
1950.0	80.704	3.40021E+05	318.83	-2.81691E+05	7.5455
2000.0	81.094	3.44066E+05	320.88	-2.97684E+05	7.7745
2050.0	81.464	3.48131E+05	322.88	-3.13778E+05	7.9950
2100.0	81.814	3.52213E+05	324.85	-3.29971E+05	8.2074
2150.0	82.147	3.56312E+05	326.78	-3.46262E+05	8.4123
2200.0	82.464	3.60427E+05	328.67	-3.62649E+05	8.6102
2250.0	82.767	3.64558E+05	330.53	-3.79129E+05	8.8014
2300.0	83.056	3.68703E+05	332.35	-3.95701E+05	8.9864
2350.0	83.334	3.72863E+05	334.14	-4.12363E+05	9.1656
2400.0	83.601	3.77037E+05	335.90	-4.29114E+05	9.3392
2450.0	83.858	3.81223E+05	337.62	-4.45952E+05	9.5076
2500.0	84.105	3.85422E+05	339.32	-4.62876E+05	9.6710
2550.0	84.344	3.89633E+05	340.99	-4.79884E+05	9.8298
2600.0	84.576	3.93857E+05	342.63	-4.96974E+05	9.9841
2650.0	84.800	3.98091E+05	344.24	-5.14146E+05	10.134
2700.0	85.017	4.02336E+05	345.83	-5.31398E+05	10.280
2750.0	85.228	4.06593E+05	347.39	-5.48728E+05	10.423
2800.0	85.434	4.10859E+05	348.93	-5.66136E+05	10.561
2850.0	85.634	4.15136E+05	350.44	-5.83621E+05	10.696
2900.0	85.829	4.19422E+05	351.93	-6.01180E+05	10.828
2950.0	86.020	4.23719E+05	353.40	-6.18813E+05	10.957
3000.0	86.207	4.28024E+05	354.85	-6.36520E+05	11.083

C6H6

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	136.11	49037.	171.54	-2108.1	0.36933
300.00	136.11	49288.	172.38	-2426.3	0.42244
350.00	136.11	56094.	193.36	-11583.	1.7287

CH3OH

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	81.588	-2.38697E+05	126.69	-2.76470E+05	48.435
300.00	81.588	-2.38546E+05	127.20	-2.76705E+05	48.177
350.00	81.588	-2.34467E+05	139.77	-2.83388E+05	42.292
400.00	81.588	-2.30387E+05	150.67	-2.90655E+05	37.955

C2H5OH

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	111.42	-2.77608E+05	160.71	-3.25523E+05	57.029
300.00	111.42	-2.77402E+05	161.40	-3.25821E+05	56.729
350.00	111.42	-2.71831E+05	178.57	-3.34331E+05	49.895
400.00	111.42	-2.66260E+05	193.45	-3.43640E+05	44.874

HCOOH

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	99.161	-4.22793E+05	128.99	-4.61252E+05	80.807
300.00	99.161	-4.22610E+05	129.61	-4.61492E+05	80.351
350.00	99.161	-4.17652E+05	144.89	-4.68364E+05	69.898
400.00	99.161	-4.12694E+05	158.13	-4.75947E+05	62.151
450.00	99.161	-4.07736E+05	169.81	-4.84151E+05	56.197
500.00	99.161	-4.02778E+05	180.26	-4.92908E+05	51.492
550.00	99.161	-3.97820E+05	189.71	-5.02161E+05	47.690
600.00	99.161	-3.92862E+05	198.34	-5.11865E+05	44.561
650.00	99.161	-3.87903E+05	206.28	-5.21983E+05	41.946
700.00	99.161	-3.82945E+05	213.63	-5.32483E+05	39.733
750.00	99.161	-3.77987E+05	220.47	-5.43337E+05	37.840
800.00	99.161	-3.73029E+05	226.87	-5.54522E+05	36.206
850.00	99.161	-3.68071E+05	232.88	-5.66017E+05	34.782
900.00	99.161	-3.63113E+05	238.55	-5.77804E+05	33.534
950.00	99.161	-3.58155E+05	243.91	-5.89867E+05	32.432
1000.0	99.161	-3.53197E+05	248.99	-6.02190E+05	31.454
1050.0	99.161	-3.48239E+05	253.83	-6.14762E+05	30.582
1100.0	99.161	-3.43281E+05	258.44	-6.27570E+05	29.800
1150.0	99.161	-3.38323E+05	262.85	-6.40603E+05	29.096
1200.0	99.161	-3.33365E+05	267.07	-6.53852E+05	28.461
1250.0	99.161	-3.28407E+05	271.12	-6.67307E+05	27.885
1300.0	99.161	-3.23449E+05	275.01	-6.80961E+05	27.361
1350.0	99.161	-3.18491E+05	278.75	-6.94806E+05	26.883
1400.0	99.161	-3.13533E+05	282.36	-7.08834E+05	26.446
1450.0	99.161	-3.08575E+05	285.84	-7.23040E+05	26.046
1500.0	99.161	-3.03617E+05	289.20	-7.37416E+05	25.678

CH2O<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.383	-1.08700E+05	218.76	-1.73923E+05	30.470
300.00	35.437	-1.08634E+05	218.98	-1.74328E+05	30.352
350.00	37.187	-1.06821E+05	224.57	-1.85419E+05	27.672
400.00	39.269	-1.04910E+05	229.67	-1.96777E+05	25.696
450.00	41.488	-1.02892E+05	234.42	-2.08380E+05	24.188
500.00	43.743	-1.00761E+05	238.91	-2.20214E+05	23.005
550.00	45.975	-98518.	243.18	-2.32267E+05	22.058
600.00	48.150	-96164.	247.28	-2.44529E+05	21.288
650.00	50.245	-93704.	251.21	-2.56992E+05	20.652
700.00	52.247	-91141.	255.01	-2.69648E+05	20.121
750.00	54.145	-88481.	258.68	-2.82491E+05	19.674
800.00	55.932	-85729.	262.23	-2.95514E+05	19.295
850.00	57.604	-82890.	265.67	-3.08712E+05	18.971
900.00	59.156	-79970.	269.01	-3.22080E+05	18.693
950.00	60.656	-76974.	272.25	-3.35612E+05	18.453
1000.0	62.018	-73907.	275.40	-3.49303E+05	18.245
1050.0	63.263	-70775.	278.45	-3.63150E+05	18.065
1100.0	64.409	-67582.	281.42	-3.77147E+05	17.909
1150.0	65.467	-64335.	284.31	-3.91291E+05	17.773
1200.0	66.450	-61037.	287.12	-4.05577E+05	17.654
1250.0	67.364	-57691.	289.85	-4.20001E+05	17.550
1300.0	68.217	-54302.	292.51	-4.34560E+05	17.460
1350.0	69.014	-50871.	295.10	-4.49251E+05	17.382
1400.0	69.761	-47401.	297.62	-4.64069E+05	17.314
1450.0	70.460	-43895.	300.08	-4.79012E+05	17.255
1500.0	71.116	-40356.	302.48	-4.94076E+05	17.205
1550.0	71.730	-36784.	304.82	-5.09259E+05	17.161
1600.0	72.305	-33183.	307.11	-5.24557E+05	17.125
1650.0	72.843	-29555.	309.34	-5.39969E+05	17.094
1700.0	73.345	-25900.	311.52	-5.55491E+05	17.068
1750.0	73.814	-22221.	313.66	-5.71120E+05	17.047
1800.0	74.249	-18519.	315.74	-5.86856E+05	17.030
1850.0	74.653	-14796.	317.78	-6.02694E+05	17.017
1900.0	75.026	-11054.	319.78	-6.18633E+05	17.007
1950.0	75.370	-7294.1	321.73	-6.34671E+05	17.000
2000.0	75.682	-3517.7	323.64	-6.50806E+05	16.997
2050.0	76.005	274.62	325.52	-6.67035E+05	16.996
2100.0	76.307	4082.5	327.35	-6.83357E+05	16.997
2150.0	76.589	7905.0	329.15	-6.99769E+05	17.001
2200.0	76.854	11741.	330.91	-7.16271E+05	17.006
2250.0	77.102	15590.	332.64	-7.32860E+05	17.013
2300.0	77.335	19451.	334.34	-7.49535E+05	17.022
2350.0	77.555	23323.	336.01	-7.66294E+05	17.032
2400.0	77.762	27206.	337.64	-7.83135E+05	17.044
2450.0	77.958	31099.	339.25	-8.00058E+05	17.057
2500.0	78.143	35002.	340.82	-8.17060E+05	17.071
2550.0	78.318	38913.	342.37	-8.34140E+05	17.086
2600.0	78.484	42834.	343.90	-8.51297E+05	17.102
2650.0	78.642	46762.	345.39	-8.68529E+05	17.119
2700.0	78.791	50698.	346.86	-8.85835E+05	17.137
2750.0	78.934	54641.	348.31	-9.03215E+05	17.156
2800.0	79.069	58591.	349.73	-9.20666E+05	17.175
2850.0	79.199	62548.	351.14	-9.38188E+05	17.195
2900.0	79.322	66511.	352.51	-9.55779E+05	17.215
2950.0	79.440	70480.	353.87	-9.73439E+05	17.236
3000.0	79.552	74455.	355.21	-9.91166E+05	17.257

CF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	30.050	2.44072E+05	213.03	1.80557E+05	-31.632
300.00	30.067	2.44128E+05	213.22	1.80163E+05	-31.368
350.00	30.570	2.45643E+05	217.89	1.69382E+05	-25.278
400.00	31.125	2.47185E+05	222.01	1.58383E+05	-20.682
450.00	31.687	2.48756E+05	225.70	1.47189E+05	-17.085
500.00	32.236	2.50354E+05	229.07	1.35818E+05	-14.188
550.00	32.758	2.51979E+05	232.17	1.24286E+05	-11.803
600.00	33.246	2.53629E+05	235.04	1.12605E+05	-9.8029
650.00	33.695	2.55303E+05	237.72	1.00785E+05	-8.0990
700.00	34.101	2.56998E+05	240.23	88835.	-6.6288
750.00	34.463	2.58712E+05	242.60	76764.	-5.3462
800.00	34.778	2.60443E+05	244.83	64578.	-4.2164
850.00	35.090	2.62190E+05	246.95	52283.	-3.2128
900.00	35.356	2.63952E+05	248.96	39885.	-2.3148
950.00	35.585	2.65725E+05	250.88	27388.	-1.5059
1000.0	35.785	2.67510E+05	252.71	14798.	-0.77295
1050.0	35.961	2.69304E+05	254.46	2118.3	-0.10538
1100.0	36.118	2.71106E+05	256.14	-10647.	0.50557
1150.0	36.257	2.72915E+05	257.75	-23494.	1.0671
1200.0	36.383	2.74731E+05	259.29	-36421.	1.5853
1250.0	36.498	2.76553E+05	260.78	-49423.	2.0652
1300.0	36.603	2.78381E+05	262.21	-62498.	2.5111
1350.0	36.699	2.80213E+05	263.60	-75643.	2.9267
1400.0	36.788	2.82051E+05	264.93	-88857.	3.3152
1450.0	36.871	2.83892E+05	266.23	-1.02136E+05	3.6792
1500.0	36.948	2.85737E+05	267.48	-1.15479E+05	4.0212
1550.0	37.020	2.87587E+05	268.69	-1.28883E+05	4.3432
1600.0	37.088	2.89439E+05	269.87	-1.42347E+05	4.6470
1650.0	37.153	2.91295E+05	271.01	-1.55869E+05	4.9343
1700.0	37.214	2.93155E+05	272.12	-1.69448E+05	5.2064
1750.0	37.273	2.95017E+05	273.20	-1.83081E+05	5.4645
1800.0	37.328	2.96882E+05	274.25	-1.96767E+05	5.7099
1850.0	37.382	2.98750E+05	275.27	-2.10505E+05	5.9434
1900.0	37.433	3.00620E+05	276.27	-2.24294E+05	6.1661
1950.0	37.482	3.02493E+05	277.24	-2.38132E+05	6.3787
2000.0	37.530	3.04368E+05	278.19	-2.52018E+05	6.5819
2050.0	37.576	3.06246E+05	279.12	-2.65951E+05	6.7763
2100.0	37.621	3.08126E+05	280.03	-2.79929E+05	6.9627
2150.0	37.664	3.10008E+05	280.91	-2.93953E+05	7.1415
2200.0	37.706	3.11892E+05	281.78	-3.08020E+05	7.3131
2250.0	37.747	3.13778E+05	282.63	-3.22130E+05	7.4782
2300.0	37.787	3.15667E+05	283.46	-3.36283E+05	7.6370
2350.0	37.826	3.17557E+05	284.27	-3.50476E+05	7.7900
2400.0	37.865	3.19449E+05	285.07	-3.64709E+05	7.9375
2450.0	37.902	3.21344E+05	285.85	-3.78982E+05	8.0798
2500.0	37.939	3.23240E+05	286.61	-3.93294E+05	8.2172
2550.0	37.975	3.25138E+05	287.36	-4.07643E+05	8.3500
2600.0	38.011	3.27037E+05	288.10	-4.22030E+05	8.4785
2650.0	38.046	3.28939E+05	288.83	-4.36453E+05	8.6028
2700.0	38.080	3.30842E+05	289.54	-4.50912E+05	8.7232
2750.0	38.114	3.32747E+05	290.24	-4.65407E+05	8.8399
2800.0	38.147	3.34653E+05	290.92	-4.79936E+05	8.9531
2850.0	38.180	3.36561E+05	291.60	-4.94499E+05	9.0629
2900.0	38.212	3.38471E+05	292.26	-5.09096E+05	9.1696
2950.0	38.244	3.40382E+05	292.92	-5.23725E+05	9.2732
3000.0	38.276	3.42295E+05	293.56	-5.38387E+05	9.3739

CF2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	38.955	-1.82004E+05	240.83	-2.53807E+05	44.465
300.00	39.035	-1.81932E+05	241.07	-2.54253E+05	44.268
350.00	41.136	-1.79927E+05	247.25	-2.66463E+05	39.766
400.00	43.094	-1.77821E+05	252.87	-2.78968E+05	36.429
450.00	44.876	-1.75621E+05	258.05	-2.91743E+05	33.864
500.00	46.464	-1.73336E+05	262.86	-3.04767E+05	31.838
550.00	47.847	-1.70978E+05	267.36	-3.18023E+05	30.203
600.00	49.020	-1.68555E+05	271.57	-3.31498E+05	28.859
650.00	50.065	-1.66077E+05	275.54	-3.45176E+05	27.738
700.00	50.937	-1.63551E+05	279.28	-3.59048E+05	26.792
750.00	51.678	-1.60986E+05	282.82	-3.73101E+05	25.984
800.00	52.316	-1.58385E+05	286.18	-3.87327E+05	25.289
850.00	52.871	-1.55755E+05	289.37	-4.01716E+05	24.686
900.00	53.358	-1.53099E+05	292.40	-4.16261E+05	24.159
950.00	53.788	-1.50421E+05	295.30	-4.30954E+05	23.695
1000.0	54.169	-1.47721E+05	298.07	-4.45788E+05	23.285
1050.0	54.509	-1.45004E+05	300.72	-4.60758E+05	22.921
1100.0	54.812	-1.42271E+05	303.26	-4.75858E+05	22.596
1150.0	55.082	-1.39524E+05	305.70	-4.91083E+05	22.305
1200.0	55.322	-1.36763E+05	308.05	-5.06427E+05	22.044
1250.0	55.535	-1.33992E+05	310.32	-5.21887E+05	21.808
1300.0	55.722	-1.31210E+05	312.50	-5.37457E+05	21.595
1350.0	55.886	-1.28420E+05	314.60	-5.53135E+05	21.402
1400.0	56.028	-1.25622E+05	316.64	-5.68917E+05	21.226
1450.0	56.174	-1.22817E+05	318.61	-5.84798E+05	21.066
1500.0	56.305	-1.20005E+05	320.51	-6.00776E+05	20.920
1550.0	56.421	-1.17187E+05	322.36	-6.16849E+05	20.787
1600.0	56.527	-1.14363E+05	324.16	-6.33012E+05	20.665
1650.0	56.622	-1.11534E+05	325.90	-6.49263E+05	20.553
1700.0	56.710	-1.08701E+05	327.59	-6.65601E+05	20.451
1750.0	56.790	-1.05863E+05	329.23	-6.82021E+05	20.357
1800.0	56.865	-1.03022E+05	330.83	-6.98523E+05	20.270
1850.0	56.936	-1.00177E+05	332.39	-7.15104E+05	20.190
1900.0	57.002	-97328.	333.91	-7.31762E+05	20.117
1950.0	57.066	-94477.	335.39	-7.48495E+05	20.049
2000.0	57.127	-91622.	336.84	-7.65300E+05	19.987
2050.0	57.186	-88764.	338.25	-7.82178E+05	19.930
2100.0	57.243	-85903.	339.63	-7.99125E+05	19.877
2150.0	57.300	-83040.	340.98	-8.16140E+05	19.828
2200.0	57.356	-80173.	342.29	-8.33222E+05	19.783
2250.0	57.412	-77304.	343.58	-8.50369E+05	19.741
2300.0	57.469	-74432.	344.85	-8.67580E+05	19.703
2350.0	57.525	-71557.	346.08	-8.84854E+05	19.668
2400.0	57.583	-68680.	347.30	-9.02188E+05	19.635
2450.0	57.641	-65799.	348.48	-9.19583E+05	19.605
2500.0	57.700	-62916.	349.65	-9.37036E+05	19.578
2550.0	57.761	-60029.	350.79	-9.54547E+05	19.553
2600.0	57.823	-57139.	351.91	-9.72115E+05	19.530
2650.0	57.887	-54247.	353.02	-9.89738E+05	19.508
2700.0	57.952	-51351.	354.10	-1.00742E+06	19.489
2750.0	58.020	-48451.	355.16	-1.02515E+06	19.472
2800.0	58.089	-45549.	356.21	-1.04293E+06	19.456
2850.0	58.161	-42642.	357.24	-1.06077E+06	19.441
2900.0	58.234	-39733.	358.25	-1.07866E+06	19.428
2950.0	58.311	-36819.	359.25	-1.09659E+06	19.417
3000.0	58.389	-33902.	360.23	-1.11458E+06	19.406

CF3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	49.815	-4.70282E+05	265.08	-5.49315E+05	96.235
300.00	49.971	-4.70189E+05	265.39	-5.49805E+05	95.727
350.00	53.941	-4.67590E+05	273.39	-5.63277E+05	84.062
400.00	57.466	-4.64803E+05	280.83	-5.77135E+05	75.364
450.00	60.585	-4.61850E+05	287.78	-5.91352E+05	68.641
500.00	63.317	-4.58751E+05	294.31	-6.05907E+05	63.297
550.00	65.674	-4.55524E+05	300.46	-6.20777E+05	58.955
600.00	67.663	-4.52189E+05	306.26	-6.35947E+05	55.363
650.00	69.410	-4.48761E+05	311.75	-6.51398E+05	52.346
700.00	70.880	-4.45253E+05	316.95	-6.67117E+05	49.780
750.00	72.135	-4.41677E+05	321.88	-6.83089E+05	47.573
800.00	73.220	-4.38042E+05	326.57	-6.99301E+05	45.659
850.00	74.167	-4.34357E+05	331.04	-7.15742E+05	43.983
900.00	74.997	-4.30627E+05	335.31	-7.32402E+05	42.506
950.00	75.729	-4.26859E+05	339.38	-7.49270E+05	41.197
1000.0	76.375	-4.23056E+05	343.28	-7.66337E+05	40.028
1050.0	76.944	-4.19223E+05	347.02	-7.83595E+05	38.981
1100.0	77.445	-4.15363E+05	350.61	-8.01037E+05	38.037
1150.0	77.884	-4.11479E+05	354.07	-8.18654E+05	37.184
1200.0	78.266	-4.07575E+05	357.39	-8.36441E+05	36.408
1250.0	78.631	-4.03653E+05	360.59	-8.54391E+05	35.702
1300.0	78.956	-3.99713E+05	363.68	-8.72498E+05	35.057
1350.0	79.246	-3.95758E+05	366.67	-8.90757E+05	34.465
1400.0	79.506	-3.91789E+05	369.55	-9.09163E+05	33.920
1450.0	79.740	-3.87807E+05	372.35	-9.27711E+05	33.419
1500.0	79.951	-3.83815E+05	375.05	-9.46397E+05	32.956
1550.0	80.143	-3.79813E+05	377.68	-9.65215E+05	32.527
1600.0	80.318	-3.75801E+05	380.23	-9.84163E+05	32.129
1650.0	80.477	-3.71781E+05	382.70	-1.00324E+06	31.759
1700.0	80.623	-3.67754E+05	385.11	-1.02243E+06	31.415
1750.0	80.757	-3.63719E+05	387.44	-1.04175E+06	31.094
1800.0	80.881	-3.59678E+05	389.72	-1.06118E+06	30.794
1850.0	80.994	-3.55631E+05	391.94	-1.08072E+06	30.513
1900.0	81.100	-3.51579E+05	394.10	-1.10037E+06	30.250
1950.0	81.197	-3.47521E+05	396.21	-1.12013E+06	30.004
2000.0	81.288	-3.43459E+05	398.26	-1.13999E+06	29.773
2050.0	81.373	-3.39393E+05	400.27	-1.15995E+06	29.555
2100.0	81.451	-3.35322E+05	402.23	-1.18001E+06	29.351
2150.0	81.525	-3.31248E+05	404.15	-1.20017E+06	29.158
2200.0	81.594	-3.27170E+05	406.03	-1.22043E+06	28.976
2250.0	81.659	-3.23088E+05	407.86	-1.24078E+06	28.804
2300.0	81.719	-3.19004E+05	409.66	-1.26121E+06	28.642
2350.0	81.776	-3.14916E+05	411.42	-1.28174E+06	28.489
2400.0	81.830	-3.10826E+05	413.14	-1.30236E+06	28.344
2450.0	81.881	-3.06733E+05	414.83	-1.32305E+06	28.207
2500.0	81.929	-3.02638E+05	416.48	-1.34384E+06	28.077
2550.0	81.974	-2.98541E+05	418.10	-1.36470E+06	27.954
2600.0	82.017	-2.94441E+05	419.69	-1.38565E+06	27.837
2650.0	82.057	-2.90339E+05	421.26	-1.40667E+06	27.726
2700.0	82.096	-2.86235E+05	422.79	-1.42777E+06	27.621
2750.0	82.133	-2.82129E+05	424.30	-1.44895E+06	27.521
2800.0	82.167	-2.78022E+05	425.78	-1.47020E+06	27.426
2850.0	82.201	-2.73913E+05	427.23	-1.49153E+06	27.336
2900.0	82.232	-2.69802E+05	428.66	-1.51293E+06	27.250
2950.0	82.262	-2.65689E+05	430.07	-1.53439E+06	27.168
3000.0	82.291	-2.61576E+05	431.45	-1.55593E+06	27.090

C2F6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	106.44	-1.34390E+06	332.18	-1.44294E+06	252.79
300.00	106.85	-1.34370E+06	332.84	-1.44356E+06	251.34
350.00	116.96	-1.33810E+06	350.10	-1.46064E+06	217.98
400.00	125.54	-1.33203E+06	366.29	-1.47855E+06	193.07
450.00	132.88	-1.32557E+06	381.51	-1.49725E+06	173.79
500.00	139.14	-1.31876E+06	395.85	-1.51669E+06	158.44
550.00	144.40	-1.31167E+06	409.36	-1.53682E+06	145.95
600.00	148.71	-1.30434E+06	422.12	-1.55761E+06	135.60
650.00	152.41	-1.29681E+06	434.17	-1.57902E+06	126.89
700.00	155.48	-1.28911E+06	445.58	-1.60102E+06	119.47
750.00	158.07	-1.28127E+06	456.40	-1.62357E+06	113.07
800.00	160.28	-1.27331E+06	466.67	-1.64665E+06	107.51
850.00	162.18	-1.26524E+06	476.45	-1.67023E+06	102.64
900.00	163.82	-1.25709E+06	485.77	-1.69428E+06	98.331
950.00	165.25	-1.24887E+06	494.66	-1.71880E+06	94.504
1000.0	166.49	-1.24057E+06	503.17	-1.74374E+06	91.082
1050.0	167.55	-1.23222E+06	511.32	-1.76911E+06	88.006
1100.0	168.49	-1.22382E+06	519.14	-1.79487E+06	85.229
1150.0	169.32	-1.21537E+06	526.65	-1.82102E+06	82.711
1200.0	170.06	-1.20689E+06	533.87	-1.84753E+06	80.419
1250.0	170.72	-1.19837E+06	540.82	-1.87440E+06	78.325
1300.0	171.30	-1.18982E+06	547.53	-1.90161E+06	76.406
1350.0	171.83	-1.18124E+06	554.01	-1.92915E+06	74.641
1400.0	172.31	-1.17263E+06	560.26	-1.95700E+06	73.015
1450.0	172.74	-1.16401E+06	566.32	-1.98517E+06	71.512
1500.0	173.12	-1.15536E+06	572.18	-2.01363E+06	70.119
1550.0	173.47	-1.14670E+06	577.86	-2.04239E+06	68.826
1600.0	173.79	-1.13801E+06	583.38	-2.07142E+06	67.623
1650.0	174.08	-1.12932E+06	588.73	-2.10072E+06	66.502
1700.0	174.33	-1.12061E+06	593.93	-2.13029E+06	65.454
1750.0	174.56	-1.11189E+06	598.99	-2.16011E+06	64.474
1800.0	174.77	-1.10315E+06	603.91	-2.19018E+06	63.556
1850.0	174.98	-1.09441E+06	608.70	-2.22050E+06	62.694
1900.0	175.18	-1.08565E+06	613.37	-2.25105E+06	61.884
1950.0	175.36	-1.07689E+06	617.92	-2.28183E+06	61.122
2000.0	175.53	-1.06812E+06	622.36	-2.31284E+06	60.404
2050.0	175.68	-1.05934E+06	626.70	-2.34407E+06	59.726
2100.0	175.83	-1.05055E+06	630.93	-2.37551E+06	59.086
2150.0	175.96	-1.04176E+06	635.07	-2.40716E+06	58.481
2200.0	176.09	-1.03295E+06	639.12	-2.43902E+06	57.908
2250.0	176.20	-1.02415E+06	643.08	-2.47107E+06	57.365
2300.0	176.32	-1.01533E+06	646.95	-2.50332E+06	56.851
2350.0	176.42	-1.00652E+06	650.74	-2.53576E+06	56.362
2400.0	176.52	-9.97693E+05	654.46	-2.56839E+06	55.898
2450.0	176.61	-9.88864E+05	658.10	-2.60121E+06	55.457
2500.0	176.69	-9.80032E+05	661.67	-2.63420E+06	55.037
2550.0	176.78	-9.71195E+05	665.17	-2.66737E+06	54.638
2600.0	176.85	-9.62354E+05	668.60	-2.70072E+06	54.257
2650.0	176.92	-9.53510E+05	671.97	-2.73423E+06	53.894
2700.0	176.99	-9.44662E+05	675.28	-2.76792E+06	53.547
2750.0	177.06	-9.35811E+05	678.53	-2.80176E+06	53.216
2800.0	177.12	-9.26956E+05	681.72	-2.83577E+06	52.901
2850.0	177.18	-9.18099E+05	684.85	-2.86993E+06	52.599
2900.0	177.23	-9.09239E+05	687.94	-2.90425E+06	52.310
2950.0	177.28	-9.00376E+05	690.97	-2.93872E+06	52.034
3000.0	177.33	-8.91511E+05	693.95	-2.97335E+06	51.769

CF4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	61.040	-9.33200E+05	261.45	-1.01115E+06	177.15
300.00	61.288	-9.33087E+05	261.83	-1.01164E+06	176.14
350.00	67.341	-9.29866E+05	271.75	-1.02498E+06	152.97
400.00	72.438	-9.26369E+05	281.08	-1.03880E+06	135.65
450.00	76.826	-9.22634E+05	289.87	-1.05308E+06	122.24
500.00	80.635	-9.18696E+05	298.17	-1.06778E+06	111.55
550.00	83.940	-9.14579E+05	306.01	-1.08289E+06	102.84
600.00	86.782	-9.10309E+05	313.44	-1.09838E+06	95.620
650.00	89.269	-9.05906E+05	320.49	-1.11423E+06	89.538
700.00	91.321	-9.01390E+05	327.18	-1.13042E+06	84.351
750.00	93.045	-8.96779E+05	333.55	-1.14694E+06	79.878
800.00	94.515	-8.92089E+05	339.60	-1.16377E+06	75.984
850.00	95.786	-8.87331E+05	345.37	-1.18089E+06	72.567
900.00	96.895	-8.82514E+05	350.87	-1.19830E+06	69.546
950.00	97.871	-8.77644E+05	356.14	-1.21598E+06	66.857
1000.0	98.737	-8.72728E+05	361.18	-1.23391E+06	64.451
1050.0	99.509	-8.67772E+05	366.02	-1.25209E+06	62.287
1100.0	100.20	-8.62779E+05	370.66	-1.27051E+06	60.330
1150.0	100.82	-8.57753E+05	375.13	-1.28916E+06	58.554
1200.0	101.38	-8.52698E+05	379.44	-1.30802E+06	56.935
1250.0	101.88	-8.47616E+05	383.58	-1.32710E+06	55.455
1300.0	102.33	-8.42511E+05	387.59	-1.34638E+06	54.097
1350.0	102.74	-8.37384E+05	391.46	-1.36585E+06	52.847
1400.0	103.10	-8.32238E+05	395.20	-1.38552E+06	51.693
1450.0	103.42	-8.27074E+05	398.83	-1.40537E+06	50.626
1500.0	103.71	-8.21896E+05	402.34	-1.42540E+06	49.636
1550.0	103.96	-8.16704E+05	405.74	-1.44560E+06	48.715
1600.0	104.18	-8.11500E+05	409.05	-1.46597E+06	47.858
1650.0	104.40	-8.06286E+05	412.25	-1.48651E+06	47.058
1700.0	104.61	-8.01060E+05	415.37	-1.50720E+06	46.309
1750.0	104.80	-7.95825E+05	418.41	-1.52804E+06	45.608
1800.0	104.98	-7.90580E+05	421.36	-1.54904E+06	44.951
1850.0	105.14	-7.85327E+05	424.24	-1.57018E+06	44.333
1900.0	105.28	-7.80067E+05	427.05	-1.59146E+06	43.751
1950.0	105.42	-7.74799E+05	429.79	-1.61288E+06	43.203
2000.0	105.55	-7.69525E+05	432.46	-1.63444E+06	42.686
2050.0	105.67	-7.64245E+05	435.06	-1.65613E+06	42.198
2100.0	105.78	-7.58958E+05	437.61	-1.67794E+06	41.735
2150.0	105.88	-7.53667E+05	440.10	-1.69989E+06	41.298
2200.0	105.97	-7.48371E+05	442.54	-1.72195E+06	40.883
2250.0	106.06	-7.43070E+05	444.92	-1.74414E+06	40.490
2300.0	106.15	-7.37764E+05	447.25	-1.76644E+06	40.116
2350.0	106.23	-7.32455E+05	449.54	-1.78886E+06	39.761
2400.0	106.30	-7.27142E+05	451.77	-1.81140E+06	39.423
2450.0	106.37	-7.21825E+05	453.96	-1.83404E+06	39.101
2500.0	106.44	-7.16504E+05	456.11	-1.85679E+06	38.795
2550.0	106.50	-7.11181E+05	458.22	-1.87965E+06	38.502
2600.0	106.56	-7.05855E+05	460.29	-1.90261E+06	38.223
2650.0	106.61	-7.00525E+05	462.32	-1.92568E+06	37.956
2700.0	106.67	-6.95193E+05	464.32	-1.94884E+06	37.702
2750.0	106.72	-6.89859E+05	466.27	-1.97211E+06	37.458
2800.0	106.76	-6.84521E+05	468.20	-1.99547E+06	37.225
2850.0	106.81	-6.79182E+05	470.09	-2.01893E+06	37.002
2900.0	106.85	-6.73841E+05	471.94	-2.04248E+06	36.788
2950.0	106.89	-6.68497E+05	473.77	-2.06612E+06	36.583
3000.0	106.93	-6.63151E+05	475.57	-2.08986E+06	36.387

CCL<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.268	4.39569E+05	224.55	3.72619E+05	-65.280
300.00	32.296	4.39629E+05	224.75	3.72203E+05	-64.805
350.00	33.002	4.41262E+05	229.79	3.60837E+05	-53.851
400.00	33.620	4.42927E+05	234.23	3.49234E+05	-45.604
450.00	34.163	4.44622E+05	238.23	3.37421E+05	-39.166
500.00	34.641	4.46343E+05	241.85	3.25418E+05	-33.995
550.00	35.057	4.48085E+05	245.17	3.13241E+05	-29.748
600.00	35.413	4.49847E+05	248.24	3.00905E+05	-26.195
650.00	35.724	4.51626E+05	251.09	2.88421E+05	-23.177
700.00	35.979	4.53419E+05	253.74	2.75799E+05	-20.580
750.00	36.194	4.55223E+05	256.23	2.63049E+05	-18.320
800.00	36.377	4.57038E+05	258.57	2.50179E+05	-16.335
850.00	36.537	4.58861E+05	260.78	2.37194E+05	-14.576
900.00	36.677	4.60691E+05	262.88	2.24102E+05	-13.006
950.00	36.802	4.62528E+05	264.86	2.10908E+05	-11.596
1000.0	36.914	4.64371E+05	266.75	1.97618E+05	-10.322
1050.0	37.017	4.66219E+05	268.56	1.84234E+05	-9.1649
1100.0	37.111	4.68073E+05	270.28	1.70763E+05	-8.1087
1150.0	37.198	4.69930E+05	271.93	1.57207E+05	-7.1404
1200.0	37.279	4.71792E+05	273.52	1.43571E+05	-6.2493
1250.0	37.354	4.73658E+05	275.04	1.29857E+05	-5.4263
1300.0	37.426	4.75528E+05	276.51	1.16068E+05	-4.6635
1350.0	37.493	4.77401E+05	277.92	1.02207E+05	-3.9545
1400.0	37.557	4.79277E+05	279.29	88276.	-3.2936
1450.0	37.618	4.81156E+05	280.60	74279.	-2.6758
1500.0	37.676	4.83039E+05	281.88	60217.	-2.0969
1550.0	37.732	4.84924E+05	283.12	46092.	-1.5532
1600.0	37.786	4.86812E+05	284.32	31906.	-1.0416
1650.0	37.837	4.88702E+05	285.48	17661.	-0.55907
1700.0	37.887	4.90596E+05	286.61	3358.1	-0.10318
1750.0	37.936	4.92491E+05	287.71	-11000.	0.32832
1800.0	37.982	4.94389E+05	288.78	-25412.	0.73743
1850.0	38.028	4.96289E+05	289.82	-39877.	1.1259
1900.0	38.072	4.98192E+05	290.83	-54394.	1.4954
1950.0	38.115	5.00096E+05	291.82	-68960.	1.8472
2000.0	38.156	5.02003E+05	292.79	-83576.	2.1827
2050.0	38.197	5.03912E+05	293.73	-98239.	2.5031
2100.0	38.236	5.05823E+05	294.65	-1.12949E+05	2.8094
2150.0	38.271	5.07736E+05	295.55	-1.27704E+05	3.1025
2200.0	38.308	5.09650E+05	296.43	-1.42504E+05	3.3834
2250.0	38.347	5.11566E+05	297.29	-1.57347E+05	3.6528
2300.0	38.387	5.13485E+05	298.14	-1.72233E+05	3.9114
2350.0	38.429	5.15405E+05	298.96	-1.87161E+05	4.1600
2400.0	38.471	5.17328E+05	299.77	-2.02129E+05	4.3991
2450.0	38.515	5.19252E+05	300.57	-2.17138E+05	4.6293
2500.0	38.559	5.21179E+05	301.35	-2.32186E+05	4.8511
2550.0	38.604	5.23108E+05	302.11	-2.47272E+05	5.0650
2600.0	38.649	5.25040E+05	302.86	-2.62396E+05	5.2715
2650.0	38.695	5.26973E+05	303.60	-2.77558E+05	5.4709
2700.0	38.741	5.28909E+05	304.32	-2.92756E+05	5.6636
2750.0	38.787	5.30847E+05	305.03	-3.07990E+05	5.8499
2800.0	38.833	5.32788E+05	305.73	-3.23259E+05	6.0303
2850.0	38.880	5.34731E+05	306.42	-3.38562E+05	6.2050
2900.0	38.926	5.36676E+05	307.10	-3.53900E+05	6.3743
2950.0	38.973	5.38623E+05	307.76	-3.69272E+05	6.5384
3000.0	39.019	5.40573E+05	308.42	-3.84676E+05	6.6976

C2Cl4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	95.564	-12427.	343.41	-1.14816E+05	20.115
300.00	95.785	-12250.	344.01	-1.15452E+05	20.101
350.00	101.09	-7322.7	359.19	-1.33038E+05	19.854
400.00	105.41	-2156.9	372.98	-1.51347E+05	19.763
450.00	109.02	3206.5	385.61	-1.70316E+05	19.769
500.00	112.07	8735.8	397.25	-1.89891E+05	19.837
550.00	114.63	14405.	408.06	-2.10027E+05	19.946
600.00	116.75	20191.	418.13	-2.30685E+05	20.082
650.00	118.61	26077.	427.55	-2.51829E+05	20.237
700.00	120.16	32047.	436.40	-2.73430E+05	20.403
750.00	121.47	38089.	444.73	-2.95460E+05	20.577
800.00	122.60	44191.	452.61	-3.17896E+05	20.756
850.00	123.59	50346.	460.07	-3.40714E+05	20.937
900.00	124.45	56548.	467.16	-3.63896E+05	21.119
950.00	125.21	62790.	473.91	-3.87425E+05	21.302
1000.0	125.88	69067.	480.35	-4.11282E+05	21.483
1050.0	126.48	75377.	486.51	-4.35455E+05	21.662
1100.0	127.01	81714.	492.40	-4.59929E+05	21.840
1150.0	127.48	88077.	498.06	-4.84691E+05	22.015
1200.0	127.89	94461.	503.49	-5.09731E+05	22.187
1250.0	128.26	1.00865E+05	508.72	-5.35037E+05	22.357
1300.0	128.57	1.07286E+05	513.76	-5.60600E+05	22.525
1350.0	128.89	1.13723E+05	518.62	-5.86410E+05	22.689
1400.0	129.17	1.20174E+05	523.31	-6.12459E+05	22.851
1450.0	129.42	1.26639E+05	527.85	-6.38738E+05	23.009
1500.0	129.64	1.33115E+05	532.24	-6.65241E+05	23.165
1550.0	129.85	1.39603E+05	536.49	-6.91960E+05	23.318
1600.0	130.04	1.46100E+05	540.62	-7.18888E+05	23.469
1650.0	130.21	1.52606E+05	544.62	-7.46019E+05	23.616
1700.0	130.36	1.59120E+05	548.51	-7.73348E+05	23.761
1750.0	130.50	1.65642E+05	552.29	-8.00868E+05	23.904
1800.0	130.64	1.72171E+05	555.97	-8.28575E+05	24.044
1850.0	130.76	1.78705E+05	559.55	-8.56464E+05	24.182
1900.0	130.87	1.85246E+05	563.04	-8.84529E+05	24.317
1950.0	130.97	1.91792E+05	566.44	-9.12766E+05	24.450
2000.0	131.07	1.98343E+05	569.76	-9.41172E+05	24.580
2050.0	131.16	2.04899E+05	572.99	-9.69741E+05	24.709
2100.0	131.24	2.11459E+05	576.16	-9.98470E+05	24.835
2150.0	131.32	2.18023E+05	579.25	-1.02736E+06	24.959
2200.0	131.39	2.24590E+05	582.27	-1.05639E+06	25.081
2250.0	131.46	2.31162E+05	585.22	-1.08558E+06	25.202
2300.0	131.52	2.37736E+05	588.11	-1.11491E+06	25.320
2350.0	131.58	2.44314E+05	590.94	-1.14439E+06	25.436
2400.0	131.64	2.50894E+05	593.71	-1.17401E+06	25.551
2450.0	131.69	2.57477E+05	596.42	-1.20376E+06	25.664
2500.0	131.74	2.64063E+05	599.08	-1.23365E+06	25.775
2550.0	131.79	2.70651E+05	601.69	-1.26367E+06	25.885
2600.0	131.83	2.77242E+05	604.25	-1.29382E+06	25.992
2650.0	131.87	2.83834E+05	606.76	-1.32409E+06	26.099
2700.0	131.91	2.90429E+05	609.23	-1.35449E+06	26.204
2750.0	131.95	2.97026E+05	611.65	-1.38501E+06	26.307
2800.0	131.99	3.03624E+05	614.03	-1.41566E+06	26.409
2850.0	132.02	3.10225E+05	616.37	-1.44642E+06	26.509
2900.0	132.06	3.16827E+05	618.66	-1.47729E+06	26.608
2950.0	132.09	3.23430E+05	620.92	-1.50828E+06	26.706
3000.0	132.12	3.30035E+05	623.14	-1.53938E+06	26.802

CC13<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.647	80000.	300.33	-9543.4	1.6719
300.00	62.807	80116.	300.72	-10099.	1.7584
350.00	66.421	83352.	310.69	-25389.	3.7889
400.00	69.097	86743.	319.74	-41153.	5.3739
450.00	71.189	90252.	328.00	-57349.	6.6568
500.00	72.886	93855.	335.59	-73942.	7.7245
550.00	74.292	97536.	342.61	-90899.	8.6327
600.00	75.473	1.01281E+05	349.12	-1.08194E+05	9.4189
650.00	76.468	1.05080E+05	355.21	-1.25804E+05	10.110
700.00	77.303	1.08925E+05	360.90	-1.43709E+05	10.723
750.00	77.998	1.12808E+05	366.26	-1.61889E+05	11.275
800.00	78.561	1.16722E+05	371.32	-1.80330E+05	11.774
850.00	79.064	1.20663E+05	376.09	-1.99016E+05	12.230
900.00	79.486	1.24627E+05	380.62	-2.17935E+05	12.648
950.00	79.844	1.28611E+05	384.93	-2.37075E+05	13.035
1000.0	80.150	1.32611E+05	389.04	-2.56425E+05	13.394
1050.0	80.415	1.36625E+05	392.95	-2.75975E+05	13.729
1100.0	80.644	1.40652E+05	396.70	-2.95717E+05	14.042
1150.0	80.845	1.44689E+05	400.29	-3.15643E+05	14.337
1200.0	81.022	1.48736E+05	403.73	-3.35744E+05	14.614
1250.0	81.179	1.52791E+05	407.04	-3.56014E+05	14.877
1300.0	81.318	1.56854E+05	410.23	-3.76446E+05	15.125
1350.0	81.443	1.60923E+05	413.30	-3.97035E+05	15.362
1400.0	81.555	1.64998E+05	416.27	-4.17774E+05	15.587
1450.0	81.656	1.69078E+05	419.13	-4.38660E+05	15.802
1500.0	81.747	1.73163E+05	421.90	-4.59686E+05	16.007
1550.0	81.830	1.77253E+05	424.58	-4.80848E+05	16.204
1600.0	81.906	1.81346E+05	427.18	-5.02143E+05	16.393
1650.0	81.976	1.85443E+05	429.70	-5.23565E+05	16.574
1700.0	82.039	1.89543E+05	432.15	-5.45111E+05	16.749
1750.0	82.098	1.93647E+05	434.53	-5.66779E+05	16.917
1800.0	82.152	1.97753E+05	436.84	-5.88563E+05	17.079
1850.0	82.201	2.01862E+05	439.09	-6.10462E+05	17.236
1900.0	82.248	2.05973E+05	441.29	-6.32472E+05	17.387
1950.0	82.291	2.10087E+05	443.42	-6.54590E+05	17.534
2000.0	82.331	2.14202E+05	445.51	-6.76813E+05	17.676
2050.0	82.368	2.18320E+05	447.54	-6.99140E+05	17.814
2100.0	82.403	2.22439E+05	449.53	-7.21567E+05	17.948
2150.0	82.436	2.26560E+05	451.47	-7.44092E+05	18.077
2200.0	82.466	2.30683E+05	453.36	-7.66712E+05	18.204
2250.0	82.495	2.34807E+05	455.21	-7.89427E+05	18.326
2300.0	82.522	2.38932E+05	457.03	-8.12233E+05	18.446
2350.0	82.548	2.43059E+05	458.80	-8.35129E+05	18.562
2400.0	82.572	2.47187E+05	460.54	-8.58113E+05	18.676
2450.0	82.595	2.51316E+05	462.24	-8.81183E+05	18.787
2500.0	82.616	2.55446E+05	463.91	-9.04337E+05	18.895
2550.0	82.637	2.59578E+05	465.55	-9.27573E+05	19.000
2600.0	82.656	2.63710E+05	467.15	-9.50891E+05	19.103
2650.0	82.674	2.67843E+05	468.73	-9.74288E+05	19.204
2700.0	82.692	2.71977E+05	470.27	-9.97764E+05	19.302
2750.0	82.708	2.76112E+05	471.79	-1.02132E+06	19.399
2800.0	82.724	2.80248E+05	473.28	-1.04494E+06	19.493
2850.0	82.739	2.84385E+05	474.75	-1.06864E+06	19.586
2900.0	82.754	2.88522E+05	476.19	-1.09242E+06	19.676
2950.0	82.767	2.92660E+05	477.60	-1.11626E+06	19.765
3000.0	82.780	2.96799E+05	478.99	-1.14018E+06	19.852

C2Cl6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	136.29	-1.41500E+05	398.62	-2.60350E+05	45.611
300.00	136.67	-1.41248E+05	399.47	-2.61088E+05	45.458
350.00	145.18	-1.34189E+05	421.21	-2.81614E+05	42.027
400.00	151.40	-1.26767E+05	441.02	-3.03177E+05	39.590
450.00	156.22	-1.19072E+05	459.15	-3.25688E+05	37.804
500.00	160.09	-1.11161E+05	475.81	-3.49067E+05	36.466
550.00	163.27	-1.03074E+05	491.23	-3.73248E+05	35.447
600.00	165.93	-94842.	505.55	-3.98172E+05	34.663
650.00	168.15	-86489.	518.92	-4.23787E+05	34.055
700.00	170.02	-78033.	531.45	-4.50050E+05	33.582
750.00	171.56	-69492.	543.24	-4.76920E+05	33.215
800.00	172.81	-60881.	554.35	-5.04363E+05	32.931
850.00	173.93	-52212.	564.86	-5.32345E+05	32.713
900.00	174.86	-43492.	574.83	-5.60840E+05	32.549
950.00	175.65	-34728.	584.31	-5.89820E+05	32.430
1000.0	176.33	-25929.	593.33	-6.19263E+05	32.346
1050.0	176.91	-17097.	601.95	-6.49147E+05	32.292
1100.0	177.42	-8238.7	610.19	-6.79452E+05	32.264
1150.0	177.86	643.63	618.09	-7.10160E+05	32.256
1200.0	178.25	9546.7	625.67	-7.41256E+05	32.265
1250.0	178.60	18468.	632.95	-7.72722E+05	32.289
1300.0	178.91	27406.	639.96	-8.04546E+05	32.326
1350.0	179.18	36358.	646.72	-8.36715E+05	32.374
1400.0	179.43	45324.	653.24	-8.69215E+05	32.430
1450.0	179.65	54301.	659.54	-9.02035E+05	32.494
1500.0	179.85	63289.	665.64	-9.35165E+05	32.565
1550.0	180.04	72286.	671.54	-9.68595E+05	32.641
1600.0	180.20	81292.	677.25	-1.00232E+06	32.721
1650.0	180.36	90306.	682.80	-1.03632E+06	32.806
1700.0	180.50	99327.	688.19	-1.07059E+06	32.895
1750.0	180.62	1.08355E+05	693.42	-1.10513E+06	32.986
1800.0	180.74	1.17390E+05	698.51	-1.13993E+06	33.079
1850.0	180.85	1.26430E+05	703.47	-1.17498E+06	33.175
1900.0	180.95	1.35475E+05	708.29	-1.21028E+06	33.272
1950.0	181.05	1.44525E+05	712.99	-1.24581E+06	33.371
2000.0	181.14	1.53580E+05	717.58	-1.28158E+06	33.470
2050.0	181.22	1.62638E+05	722.05	-1.31757E+06	33.571
2100.0	181.30	1.71701E+05	726.42	-1.35378E+06	33.673
2150.0	181.37	1.80768E+05	730.69	-1.39021E+06	33.774
2200.0	181.43	1.89838E+05	734.86	-1.42685E+06	33.877
2250.0	181.50	1.98911E+05	738.93	-1.46369E+06	33.979
2300.0	181.56	2.07988E+05	742.92	-1.50074E+06	34.082
2350.0	181.61	2.17067E+05	746.83	-1.53798E+06	34.185
2400.0	181.67	2.26149E+05	750.65	-1.57542E+06	34.287
2450.0	181.72	2.35234E+05	754.40	-1.61305E+06	34.390
2500.0	181.76	2.44321E+05	758.07	-1.65086E+06	34.492
2550.0	181.81	2.53410E+05	761.67	-1.68885E+06	34.594
2600.0	181.85	2.62501E+05	765.20	-1.72702E+06	34.695
2650.0	181.89	2.71595E+05	768.67	-1.76537E+06	34.797
2700.0	181.93	2.80690E+05	772.07	-1.80389E+06	34.897
2750.0	181.96	2.89788E+05	775.41	-1.84258E+06	34.998
2800.0	182.00	2.98887E+05	778.68	-1.88143E+06	35.098
2850.0	182.03	3.07988E+05	781.91	-1.92044E+06	35.197
2900.0	182.06	3.17090E+05	785.07	-1.95962E+06	35.296
2950.0	182.09	3.26194E+05	788.18	-1.99895E+06	35.394
3000.0	182.12	3.35299E+05	791.24	-2.03844E+06	35.491

CCl4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	131.77	-1.28005E+05	216.40	-1.92523E+05	33.728
300.00	131.82	-1.27761E+05	217.21	-1.92925E+05	33.590
350.00	133.13	-1.21137E+05	237.63	-2.04308E+05	30.491
400.00	134.43	-1.14448E+05	255.49	-2.16645E+05	28.290
450.00	135.74	-1.07694E+05	271.40	-2.29825E+05	26.677
500.00	137.04	-1.00875E+05	285.77	-2.43760E+05	25.465

CCl4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.860	-95600.	309.46	-1.87866E+05	32.912
300.00	83.076	-95447.	309.97	-1.88439E+05	32.809
350.00	87.904	-91165.	323.17	-2.04273E+05	30.485
400.00	91.383	-86678.	335.14	-2.20735E+05	28.824
450.00	94.035	-82040.	346.06	-2.37769E+05	27.599
500.00	96.140	-77284.	356.09	-2.55327E+05	26.673
550.00	97.853	-72433.	365.33	-2.73365E+05	25.961
600.00	99.269	-67503.	373.91	-2.91849E+05	25.407
650.00	100.45	-62510.	381.90	-3.10746E+05	24.971
700.00	101.43	-57462.	389.38	-3.30030E+05	24.627
750.00	102.24	-52370.	396.41	-3.49677E+05	24.353
800.00	102.89	-47241.	403.03	-3.69664E+05	24.136
850.00	103.47	-42081.	409.29	-3.89974E+05	23.964
900.00	103.95	-36896.	415.21	-4.10587E+05	23.829
950.00	104.36	-31688.	420.84	-4.31490E+05	23.724
1000.0	104.71	-26461.	426.21	-4.52667E+05	23.644
1050.0	105.01	-21218.	431.32	-4.74107E+05	23.585
1100.0	105.27	-15961.	436.21	-4.95796E+05	23.543
1150.0	105.50	-10691.	440.90	-5.17725E+05	23.515
1200.0	105.70	-5411.0	445.39	-5.39883E+05	23.500
1250.0	105.88	-121.36	449.71	-5.62261E+05	23.495
1300.0	106.04	5176.7	453.87	-5.84851E+05	23.499
1350.0	106.18	10482.	457.87	-6.07645E+05	23.511
1400.0	106.31	15794.	461.74	-6.30636E+05	23.529
1450.0	106.42	21113.	465.47	-6.53817E+05	23.552
1500.0	106.53	26436.	469.08	-6.77181E+05	23.581
1550.0	106.62	31765.	472.57	-7.00723E+05	23.614
1600.0	106.71	37098.	475.96	-7.24436E+05	23.650
1650.0	106.78	42436.	479.24	-7.48317E+05	23.689
1700.0	106.86	47777.	482.43	-7.72359E+05	23.731
1750.0	106.92	53121.	485.53	-7.96559E+05	23.775
1800.0	106.98	58469.	488.54	-8.20911E+05	23.822
1850.0	107.04	63819.	491.48	-8.45412E+05	23.870
1900.0	107.09	69172.	494.33	-8.70057E+05	23.919
1950.0	107.14	74528.	497.11	-8.94844E+05	23.970
2000.0	107.18	79886.	499.83	-9.19767E+05	24.021
2050.0	107.23	85247.	502.47	-9.44825E+05	24.074
2100.0	107.27	90609.	505.06	-9.70014E+05	24.127
2150.0	107.30	95973.	507.58	-9.95330E+05	24.181
2200.0	107.34	1.01339E+05	510.05	-1.02077E+06	24.236
2250.0	107.37	1.06707E+05	512.46	-1.04633E+06	24.290
2300.0	107.40	1.12076E+05	514.82	-1.07202E+06	24.346
2350.0	107.43	1.17446E+05	517.13	-1.09782E+06	24.401
2400.0	107.45	1.22818E+05	519.39	-1.12373E+06	24.457
2450.0	107.48	1.28192E+05	521.61	-1.14975E+06	24.512
2500.0	107.50	1.33566E+05	523.78	-1.17589E+06	24.568
2550.0	107.53	1.38942E+05	525.91	-1.20213E+06	24.624
2600.0	107.55	1.44319E+05	528.00	-1.22848E+06	24.680
2650.0	107.57	1.49697E+05	530.05	-1.25493E+06	24.736
2700.0	107.59	1.55075E+05	532.06	-1.28148E+06	24.791
2750.0	107.60	1.60455E+05	534.03	-1.30814E+06	24.847
2800.0	107.62	1.65836E+05	535.97	-1.33489E+06	24.902
2850.0	107.64	1.71217E+05	537.88	-1.36173E+06	24.957
2900.0	107.65	1.76600E+05	539.75	-1.38867E+06	25.012
2950.0	107.67	1.81983E+05	541.59	-1.41571E+06	25.067
3000.0	107.68	1.87367E+05	543.40	-1.44283E+06	25.121

CBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	90.922	1.20000E+05	358.06	13245.	-2.3205
300.00	91.081	1.20168E+05	358.62	12582.	-2.1907
350.00	94.594	1.24816E+05	372.94	-5713.6	0.85269
400.00	97.047	1.29610E+05	385.74	-24686.	3.2236
450.00	98.866	1.34510E+05	397.28	-44267.	5.1382
500.00	100.28	1.39490E+05	407.77	-64397.	6.7274
550.00	101.41	1.44533E+05	417.39	-85030.	8.0752
600.00	102.33	1.49627E+05	426.25	-1.06124E+05	9.2386
650.00	103.10	1.54764E+05	434.47	-1.27644E+05	10.257
700.00	103.75	1.59936E+05	442.14	-1.49562E+05	11.160
750.00	104.30	1.65137E+05	449.32	-1.71850E+05	11.968
800.00	104.76	1.70364E+05	456.06	-1.94486E+05	12.698
850.00	105.14	1.75612E+05	462.43	-2.17450E+05	13.363
900.00	105.46	1.80877E+05	468.44	-2.40723E+05	13.971
950.00	105.71	1.86157E+05	474.15	-2.64289E+05	14.531
1000.0	105.90	1.91447E+05	479.58	-2.88134E+05	15.050
1050.0	106.10	1.96747E+05	484.75	-3.12243E+05	15.533
1100.0	106.27	2.02057E+05	489.69	-3.36605E+05	15.984
1150.0	106.43	2.07374E+05	494.42	-3.61209E+05	16.406
1200.0	106.56	2.12699E+05	498.95	-3.86044E+05	16.804
1250.0	106.68	2.18030E+05	503.30	-4.11101E+05	17.179
1300.0	106.78	2.23366E+05	507.49	-4.36371E+05	17.533
1350.0	106.87	2.28708E+05	511.52	-4.61847E+05	17.869
1400.0	106.96	2.34053E+05	515.41	-4.87521E+05	18.189
1450.0	107.03	2.39403E+05	519.16	-5.13386E+05	18.494
1500.0	107.10	2.44756E+05	522.79	-5.39436E+05	18.784
1550.0	107.16	2.50113E+05	526.31	-5.65664E+05	19.062
1600.0	107.21	2.55472E+05	529.71	-5.92065E+05	19.328
1650.0	107.27	2.60834E+05	533.01	-6.18633E+05	19.584
1700.0	107.31	2.66198E+05	536.21	-6.45364E+05	19.829
1750.0	107.35	2.71565E+05	539.32	-6.72253E+05	20.065
1800.0	107.39	2.76934E+05	542.35	-6.99295E+05	20.292
1850.0	107.43	2.82304E+05	545.29	-7.26486E+05	20.512
1900.0	107.46	2.87677E+05	548.16	-7.53823E+05	20.724
1950.0	107.49	2.93051E+05	550.95	-7.81301E+05	20.928
2000.0	107.52	2.98426E+05	553.67	-8.08917E+05	21.126
2050.0	107.55	3.03803E+05	556.33	-8.36667E+05	21.318
2100.0	107.57	3.09181E+05	558.92	-8.64548E+05	21.504
2150.0	107.60	3.14560E+05	561.45	-8.92558E+05	21.684
2200.0	107.62	3.19940E+05	563.92	-9.20692E+05	21.859
2250.0	107.64	3.25322E+05	566.34	-9.48949E+05	22.030
2300.0	107.66	3.30704E+05	568.71	-9.77326E+05	22.195
2350.0	107.68	3.36088E+05	571.02	-1.00582E+06	22.356
2400.0	107.69	3.41472E+05	573.29	-1.03443E+06	22.513
2450.0	107.71	3.46857E+05	575.51	-1.06315E+06	22.666
2500.0	107.72	3.52242E+05	577.69	-1.09198E+06	22.815
2550.0	107.74	3.57629E+05	579.82	-1.12092E+06	22.960
2600.0	107.75	3.63016E+05	581.91	-1.14996E+06	23.102
2650.0	107.76	3.68404E+05	583.97	-1.17911E+06	23.241
2700.0	107.77	3.73792E+05	585.98	-1.20836E+06	23.376
2750.0	107.79	3.79181E+05	587.96	-1.23770E+06	23.509
2800.0	107.80	3.84571E+05	589.90	-1.26715E+06	23.638
2850.0	107.81	3.89961E+05	591.81	-1.29669E+06	23.765
2900.0	107.82	3.95351E+05	593.68	-1.32633E+06	23.889
2950.0	107.82	4.00742E+05	595.53	-1.35606E+06	24.011
3000.0	107.83	4.06134E+05	597.34	-1.38588E+06	24.130

CI4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	95.661	3.40000E+05	391.89	2.23158E+05	-39.095
300.00	95.791	3.40177E+05	392.48	2.22432E+05	-38.728
350.00	98.590	3.45042E+05	407.48	2.02425E+05	-30.210
400.00	100.47	3.50021E+05	420.77	1.81713E+05	-23.729
450.00	101.81	3.55080E+05	432.69	1.60371E+05	-18.615
500.00	102.81	3.60196E+05	443.47	1.38463E+05	-14.465
550.00	103.59	3.65357E+05	453.30	1.16040E+05	-11.020
600.00	104.21	3.70553E+05	462.34	93146.	-8.1089
650.00	104.72	3.75777E+05	470.71	69817.	-5.6104
700.00	105.15	3.81024E+05	478.48	46085.	-3.4388
750.00	105.50	3.86290E+05	485.75	21977.	-1.5306
800.00	105.81	3.91574E+05	492.57	-2482.5	0.16209
850.00	106.07	3.96871E+05	498.99	-27273.	1.6760
900.00	106.30	4.02180E+05	505.06	-52376.	3.0397
950.00	106.50	4.07501E+05	510.82	-77774.	4.2762
1000.0	106.67	4.12830E+05	516.28	-1.03453E+05	5.4037
1050.0	106.82	4.18167E+05	521.49	-1.29398E+05	6.4370
1100.0	106.95	4.23511E+05	526.46	-1.55598E+05	7.3885
1150.0	107.05	4.28861E+05	531.22	-1.82041E+05	8.2683
1200.0	107.14	4.34216E+05	535.78	-2.08716E+05	9.0850
1250.0	107.21	4.39575E+05	540.15	-2.35615E+05	9.8456
1300.0	107.27	4.44938E+05	544.36	-2.62729E+05	10.556
1350.0	107.31	4.50302E+05	548.41	-2.90049E+05	11.222
1400.0	107.34	4.55669E+05	552.31	-3.17567E+05	11.848
1450.0	107.39	4.61037E+05	556.08	-3.45278E+05	12.438
1500.0	107.44	4.66408E+05	559.72	-3.73173E+05	12.995
1550.0	107.48	4.71781E+05	563.24	-4.01248E+05	13.522
1600.0	107.52	4.77156E+05	566.66	-4.29496E+05	14.021
1650.0	107.55	4.82532E+05	569.97	-4.57912E+05	14.496
1700.0	107.58	4.87911E+05	573.18	-4.86491E+05	14.948
1750.0	107.61	4.93290E+05	576.30	-5.15228E+05	15.378
1800.0	107.63	4.98671E+05	579.33	-5.44119E+05	15.790
1850.0	107.66	5.04054E+05	582.28	-5.73159E+05	16.183
1900.0	107.68	5.09437E+05	585.15	-6.02345E+05	16.559
1950.0	107.70	5.14822E+05	587.95	-6.31673E+05	16.920
2000.0	107.72	5.20207E+05	590.67	-6.61139E+05	17.267
2050.0	107.74	5.25594E+05	593.33	-6.90739E+05	17.600
2100.0	107.75	5.30981E+05	595.93	-7.20471E+05	17.920
2150.0	107.77	5.36369E+05	598.47	-7.50331E+05	18.229
2200.0	107.78	5.41758E+05	600.94	-7.80316E+05	18.527
2250.0	107.80	5.47147E+05	603.37	-8.10424E+05	18.814
2300.0	107.81	5.52537E+05	605.73	-8.40652E+05	19.091
2350.0	107.82	5.57928E+05	608.05	-8.70997E+05	19.360
2400.0	107.83	5.63319E+05	610.32	-9.01457E+05	19.619
2450.0	107.84	5.68711E+05	612.55	-9.32029E+05	19.871
2500.0	107.85	5.74104E+05	614.73	-9.62711E+05	20.114
2550.0	107.86	5.79496E+05	616.86	-9.93500E+05	20.351
2600.0	107.87	5.84890E+05	618.96	-1.02440E+06	20.580
2650.0	107.88	5.90283E+05	621.01	-1.05540E+06	20.803
2700.0	107.88	5.95677E+05	623.03	-1.08650E+06	21.019
2750.0	107.89	6.01072E+05	625.01	-1.11770E+06	21.229
2800.0	107.90	6.06466E+05	626.95	-1.14900E+06	21.434
2850.0	107.91	6.11862E+05	628.86	-1.18039E+06	21.634
2900.0	107.91	6.17257E+05	630.74	-1.21188E+06	21.828
2950.0	107.92	6.22653E+05	632.58	-1.24347E+06	22.017
3000.0	107.92	6.28049E+05	634.40	-1.27514E+06	22.202

CO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.141	-1.10529E+05	197.67	-1.69463E+05	29.688
300.00	29.139	-1.10475E+05	197.85	-1.69828E+05	29.569
350.00	29.171	-1.09018E+05	202.34	-1.79836E+05	26.838
400.00	29.324	-1.07556E+05	206.24	-1.90052E+05	24.818
450.00	29.548	-1.06084E+05	209.71	-2.00453E+05	23.267
500.00	29.818	-1.04600E+05	212.83	-2.11018E+05	22.044
550.00	30.121	-1.03102E+05	215.69	-2.21732E+05	21.058
600.00	30.446	-1.01588E+05	218.33	-2.32583E+05	20.248
650.00	30.790	-1.00057E+05	220.78	-2.43561E+05	19.572
700.00	31.148	-98508.	223.07	-2.54658E+05	19.002
750.00	31.518	-96942.	225.23	-2.65866E+05	18.516
800.00	31.899	-95356.	227.28	-2.77179E+05	18.097
850.00	32.276	-93752.	229.22	-2.88592E+05	17.734
900.00	32.616	-92129.	231.08	-3.00100E+05	17.417
950.00	32.926	-90491.	232.85	-3.11699E+05	17.138
1000.0	33.211	-88837.	234.55	-3.23384E+05	16.891
1050.0	33.474	-87170.	236.17	-3.35152E+05	16.672
1100.0	33.719	-85490.	237.74	-3.47000E+05	16.477
1150.0	33.947	-83798.	239.24	-3.58925E+05	16.302
1200.0	34.160	-82096.	240.69	-3.70923E+05	16.145
1250.0	34.361	-80383.	242.09	-3.82993E+05	16.004
1300.0	34.549	-78660.	243.44	-3.95131E+05	15.876
1350.0	34.727	-76928.	244.75	-4.07336E+05	15.760
1400.0	34.894	-75187.	246.01	-4.19605E+05	15.655
1450.0	35.052	-73439.	247.24	-4.31937E+05	15.560
1500.0	35.201	-71682.	248.43	-4.44329E+05	15.473
1550.0	35.342	-69919.	249.59	-4.56779E+05	15.393
1600.0	35.474	-68148.	250.71	-4.69287E+05	15.320
1650.0	35.599	-66371.	251.81	-4.81850E+05	15.254
1700.0	35.716	-64588.	252.87	-4.94467E+05	15.193
1750.0	35.826	-62800.	253.91	-5.07136E+05	15.137
1800.0	35.929	-61006.	254.92	-5.19857E+05	15.085
1850.0	36.025	-59207.	255.90	-5.32628E+05	15.038
1900.0	36.114	-57404.	256.86	-5.45447E+05	14.995
1950.0	36.197	-55596.	257.80	-5.58314E+05	14.955
2000.0	36.274	-53784.	258.72	-5.71227E+05	14.919
2050.0	36.344	-51969.	259.62	-5.84186E+05	14.885
2100.0	36.408	-50150.	260.49	-5.97189E+05	14.854
2150.0	36.466	-48328.	261.35	-6.10235E+05	14.825
2200.0	36.518	-46503.	262.19	-6.23323E+05	14.799
2250.0	36.578	-44676.	263.01	-6.36454E+05	14.775
2300.0	36.636	-42845.	263.82	-6.49624E+05	14.753
2350.0	36.690	-41012.	264.61	-6.62835E+05	14.733
2400.0	36.742	-39176.	265.38	-6.76085E+05	14.714
2450.0	36.791	-37338.	266.14	-6.89373E+05	14.697
2500.0	36.839	-35497.	266.88	-7.02698E+05	14.682
2550.0	36.884	-33654.	267.61	-7.16060E+05	14.668
2600.0	36.927	-31809.	268.33	-7.29459E+05	14.655
2650.0	36.968	-29962.	269.03	-7.42893E+05	14.643
2700.0	37.008	-28112.	269.72	-7.56362E+05	14.632
2750.0	37.046	-26261.	270.40	-7.69865E+05	14.623
2800.0	37.083	-24408.	271.07	-7.83402E+05	14.614
2850.0	37.118	-22553.	271.73	-7.96972E+05	14.606
2900.0	37.152	-20696.	272.37	-8.10574E+05	14.600
2950.0	37.186	-18837.	273.01	-8.24209E+05	14.594
3000.0	37.218	-16977.	273.63	-8.37875E+05	14.588

CS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.793	2.79775E+05	210.55	2.16998E+05	-38.016
300.00	29.813	2.79830E+05	210.74	2.16609E+05	-37.714
350.00	30.398	2.81335E+05	215.38	2.05953E+05	-30.736
400.00	31.001	2.82870E+05	219.48	1.95080E+05	-25.474
450.00	31.593	2.84435E+05	223.16	1.84012E+05	-21.359
500.00	32.159	2.86029E+05	226.52	1.72769E+05	-18.049
550.00	32.690	2.87651E+05	229.61	1.61365E+05	-15.325
600.00	33.182	2.89298E+05	232.48	1.49812E+05	-13.042
650.00	33.631	2.90968E+05	235.15	1.38120E+05	-11.099
700.00	34.036	2.92660E+05	237.66	1.26300E+05	-9.4244
750.00	34.393	2.94371E+05	240.02	1.14357E+05	-7.9643
800.00	34.702	2.96098E+05	242.25	1.02300E+05	-6.6793
850.00	35.007	2.97841E+05	244.36	90134.	-5.5388
900.00	35.265	2.99598E+05	246.37	77866.	-4.5191
950.00	35.486	3.01367E+05	248.28	65499.	-3.6013
1000.0	35.678	3.03146E+05	250.11	53039.	-2.7704
1050.0	35.845	3.04935E+05	251.85	40489.	-2.0142
1100.0	35.993	3.06731E+05	253.52	27855.	-1.3227
1150.0	36.124	3.08534E+05	255.13	15138.	-0.68758
1200.0	36.241	3.10343E+05	256.67	2343.1	-0.10199
1250.0	36.347	3.12158E+05	258.15	-10527.	0.43991
1300.0	36.443	3.13977E+05	259.58	-23471.	0.94304
1350.0	36.531	3.15802E+05	260.95	-36484.	1.4116
1400.0	36.611	3.17630E+05	262.28	-49565.	1.8493
1450.0	36.686	3.19463E+05	263.57	-62712.	2.2591
1500.0	36.755	3.21299E+05	264.81	-75921.	2.6438
1550.0	36.819	3.23138E+05	266.02	-89192.	3.0057
1600.0	36.879	3.24981E+05	267.19	-1.02523E+05	3.3469
1650.0	36.936	3.26826E+05	268.33	-1.15911E+05	3.6693
1700.0	36.990	3.28674E+05	269.43	-1.29355E+05	3.9745
1750.0	37.040	3.30525E+05	270.50	-1.42853E+05	4.2638
1800.0	37.089	3.32378E+05	271.55	-1.56404E+05	4.5386
1850.0	37.135	3.34234E+05	272.56	-1.70007E+05	4.8000
1900.0	37.179	3.36092E+05	273.55	-1.83660E+05	5.0490
1950.0	37.222	3.37952E+05	274.52	-1.97362E+05	5.2866
2000.0	37.263	3.39814E+05	275.46	-2.11112E+05	5.5135
2050.0	37.302	3.41678E+05	276.38	-2.24908E+05	5.7306
2100.0	37.341	3.43544E+05	277.28	-2.38750E+05	5.9384
2150.0	37.378	3.45412E+05	278.16	-2.52636E+05	6.1377
2200.0	37.414	3.47282E+05	279.02	-2.66566E+05	6.3289
2250.0	37.450	3.49153E+05	279.86	-2.80538E+05	6.5126
2300.0	37.484	3.51027E+05	280.69	-2.94552E+05	6.6893
2350.0	37.518	3.52902E+05	281.49	-3.08606E+05	6.8594
2400.0	37.551	3.54779E+05	282.28	-3.22701E+05	7.0232
2450.0	37.584	3.56657E+05	283.06	-3.36834E+05	7.1812
2500.0	37.616	3.58537E+05	283.82	-3.51006E+05	7.3337
2550.0	37.647	3.60418E+05	284.56	-3.65216E+05	7.4810
2600.0	37.678	3.62302E+05	285.29	-3.79462E+05	7.6233
2650.0	37.709	3.64186E+05	286.01	-3.93745E+05	7.7610
2700.0	37.739	3.66072E+05	286.72	-4.08063E+05	7.8943
2750.0	37.770	3.67960E+05	287.41	-4.22416E+05	8.0234
2800.0	37.799	3.69849E+05	288.09	-4.36804E+05	8.1485
2850.0	37.829	3.71740E+05	288.76	-4.51225E+05	8.2698
2900.0	37.858	3.73632E+05	289.42	-4.65680E+05	8.3876
2950.0	37.887	3.75526E+05	290.07	-4.80167E+05	8.5019
3000.0	37.916	3.77421E+05	290.70	-4.94686E+05	8.6130

CS2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	45.469	1.16700E+05	237.88	45775.	-8.0195
300.00	45.564	1.16784E+05	238.16	45335.	-7.8933
350.00	47.782	1.19120E+05	245.36	33244.	-4.9612
400.00	49.534	1.21555E+05	251.86	20811.	-2.7175
450.00	50.991	1.24069E+05	257.78	8067.4	-0.93642
500.00	52.239	1.26650E+05	263.22	-4959.4	0.51810
550.00	53.331	1.29290E+05	268.25	-18248.	1.7330
600.00	54.295	1.31981E+05	272.93	-31779.	2.7665
650.00	55.152	1.34718E+05	277.31	-45536.	3.6592
700.00	55.913	1.37495E+05	281.43	-59506.	4.4403
750.00	56.588	1.40308E+05	285.31	-73675.	5.1311
800.00	57.182	1.43152E+05	288.98	-88033.	5.7478
850.00	57.699	1.46025E+05	292.46	-1.02570E+05	6.3030
900.00	58.140	1.48921E+05	295.78	-1.17277E+05	6.8064
950.00	58.586	1.51839E+05	298.93	-1.32145E+05	7.2657
1000.0	58.971	1.54779E+05	301.95	-1.47168E+05	7.6871
1050.0	59.304	1.57736E+05	304.83	-1.62338E+05	8.0756
1100.0	59.595	1.60708E+05	307.60	-1.77649E+05	8.4356
1150.0	59.852	1.63695E+05	310.25	-1.93095E+05	8.7704
1200.0	60.080	1.66693E+05	312.80	-2.08672E+05	9.0830
1250.0	60.284	1.69702E+05	315.26	-2.24374E+05	9.3759
1300.0	60.468	1.72721E+05	317.63	-2.40197E+05	9.6510
1350.0	60.634	1.75749E+05	319.91	-2.56136E+05	9.9102
1400.0	60.785	1.78784E+05	322.12	-2.72187E+05	10.155
1450.0	60.924	1.81827E+05	324.26	-2.88347E+05	10.387
1500.0	61.052	1.84876E+05	326.33	-3.04612E+05	10.607
1550.0	61.170	1.87932E+05	328.33	-3.20978E+05	10.817
1600.0	61.280	1.90993E+05	330.27	-3.37444E+05	11.016
1650.0	61.383	1.94060E+05	332.16	-3.54005E+05	11.207
1700.0	61.479	1.97132E+05	333.99	-3.70659E+05	11.389
1750.0	61.570	2.00208E+05	335.78	-3.87403E+05	11.563
1800.0	61.657	2.03288E+05	337.51	-4.04236E+05	11.730
1850.0	61.739	2.06373E+05	339.20	-4.21154E+05	11.891
1900.0	61.817	2.09462E+05	340.85	-4.38156E+05	12.045
1950.0	61.893	2.12555E+05	342.46	-4.55238E+05	12.194
2000.0	61.965	2.15652E+05	344.03	-4.72401E+05	12.338
2050.0	62.035	2.18752E+05	345.56	-4.89640E+05	12.476
2100.0	62.102	2.21855E+05	347.05	-5.06956E+05	12.610
2150.0	62.168	2.24962E+05	348.51	-5.24345E+05	12.739
2200.0	62.232	2.28072E+05	349.94	-5.41807E+05	12.864
2250.0	62.294	2.31185E+05	351.34	-5.59339E+05	12.985
2300.0	62.356	2.34301E+05	352.71	-5.76941E+05	13.102
2350.0	62.416	2.37420E+05	354.06	-5.94610E+05	13.216
2400.0	62.475	2.40543E+05	355.37	-6.12346E+05	13.327
2450.0	62.533	2.43668E+05	356.66	-6.30147E+05	13.435
2500.0	62.590	2.46796E+05	357.92	-6.48011E+05	13.539
2550.0	62.647	2.49927E+05	359.16	-6.65938E+05	13.641
2600.0	62.704	2.53061E+05	360.38	-6.83927E+05	13.740
2650.0	62.759	2.56197E+05	361.57	-7.01976E+05	13.836
2700.0	62.815	2.59337E+05	362.75	-7.20084E+05	13.931
2750.0	62.870	2.62479E+05	363.90	-7.38251E+05	14.022
2800.0	62.925	2.65624E+05	365.03	-7.56474E+05	14.112
2850.0	62.980	2.68771E+05	366.15	-7.74754E+05	14.199
2900.0	63.035	2.71922E+05	367.24	-7.93089E+05	14.285
2950.0	63.090	2.75075E+05	368.32	-8.11478E+05	14.368
3000.0	63.145	2.78231E+05	369.38	-8.29921E+05	14.450

CN<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.168	4.40287E+05	202.64	3.79869E+05	-66.550
300.00	29.163	4.40341E+05	202.82	3.79494E+05	-66.074
350.00	29.170	4.41798E+05	207.32	3.69238E+05	-55.104
400.00	29.353	4.43261E+05	211.22	3.58772E+05	-46.850
450.00	29.632	4.44735E+05	214.69	3.48123E+05	-40.408
500.00	29.962	4.46225E+05	217.83	3.37308E+05	-35.237
550.00	30.320	4.47732E+05	220.71	3.26344E+05	-30.993
600.00	30.691	4.49257E+05	223.36	3.15241E+05	-27.443
650.00	31.065	4.50801E+05	225.83	3.04011E+05	-24.430
700.00	31.438	4.52364E+05	228.15	2.92661E+05	-21.838
750.00	31.803	4.53945E+05	230.33	2.81198E+05	-19.584
800.00	32.160	4.55544E+05	232.39	2.69630E+05	-17.605
850.00	32.505	4.57160E+05	234.35	2.57961E+05	-15.852
900.00	32.837	4.58794E+05	236.22	2.46196E+05	-14.288
950.00	33.155	4.60444E+05	238.00	2.34340E+05	-12.885
1000.0	33.459	4.62109E+05	239.71	2.22397E+05	-11.617
1050.0	33.716	4.63789E+05	241.35	2.10370E+05	-10.465
1100.0	33.960	4.65481E+05	242.93	1.98263E+05	-9.4145
1150.0	34.193	4.67185E+05	244.44	1.86078E+05	-8.4517
1200.0	34.416	4.68900E+05	245.90	1.73820E+05	-7.5660
1250.0	34.633	4.70626E+05	247.31	1.61489E+05	-6.7481
1300.0	34.844	4.72363E+05	248.67	1.49090E+05	-5.9903
1350.0	35.050	4.74110E+05	249.99	1.36623E+05	-5.2861
1400.0	35.253	4.75868E+05	251.27	1.24091E+05	-4.6298
1450.0	35.454	4.77636E+05	252.51	1.11497E+05	-4.0164
1500.0	35.653	4.79413E+05	253.71	98841.	-3.4419
1550.0	35.851	4.81201E+05	254.89	86126.	-2.9023
1600.0	36.048	4.82998E+05	256.03	73353.	-2.3947
1650.0	36.245	4.84806E+05	257.14	60523.	-1.9160
1700.0	36.442	4.86623E+05	258.23	47639.	-1.4637
1750.0	36.639	4.88450E+05	259.28	34701.	-1.0357
1800.0	36.837	4.90287E+05	260.32	21711.	-0.63002
1850.0	37.036	4.92134E+05	261.33	8669.5	-0.24478
1900.0	37.237	4.93990E+05	262.32	-4421.9	0.12156
1950.0	37.438	4.95857E+05	263.29	-17562.	0.47043
2000.0	37.641	4.97734E+05	264.24	-30751.	0.80311
2050.0	37.846	4.99621E+05	265.17	-43986.	1.1208
2100.0	38.052	5.01519E+05	266.09	-57268.	1.4244
2150.0	38.261	5.03427E+05	266.99	-70595.	1.7151
2200.0	38.471	5.05345E+05	267.87	-83966.	1.9936
2250.0	38.684	5.07274E+05	268.74	-97382.	2.2607
2300.0	38.898	5.09213E+05	269.59	-1.10840E+05	2.5172
2350.0	39.115	5.11164E+05	270.43	-1.24340E+05	2.7637
2400.0	39.334	5.13125E+05	271.25	-1.37882E+05	3.0009
2450.0	39.555	5.15097E+05	272.07	-1.51465E+05	3.2292
2500.0	39.778	5.17080E+05	272.87	-1.65089E+05	3.4493
2550.0	40.004	5.19075E+05	273.66	-1.78752E+05	3.6615
2600.0	40.233	5.21081E+05	274.44	-1.92454E+05	3.8664
2650.0	40.464	5.23098E+05	275.21	-2.06195E+05	4.0643
2700.0	40.697	5.25127E+05	275.96	-2.19975E+05	4.2556
2750.0	40.933	5.27168E+05	276.71	-2.33791E+05	4.4406
2800.0	41.170	5.29221E+05	277.45	-2.47646E+05	4.6198
2850.0	41.406	5.31285E+05	278.18	-2.61537E+05	4.7933
2900.0	41.634	5.33361E+05	278.91	-2.75464E+05	4.9615
2950.0	41.852	5.35448E+05	279.62	-2.89427E+05	5.1247
3000.0	42.063	5.37546E+05	280.32	-3.03426E+05	5.2830

(CN)2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.083	3.09100E+05	242.20	2.36888E+05	-41.501
300.00	57.196	3.09206E+05	242.55	2.36439E+05	-41.167
350.00	59.886	3.12135E+05	251.58	2.24082E+05	-33.442
400.00	62.080	3.15186E+05	259.73	2.11296E+05	-27.592
450.00	63.964	3.18338E+05	267.15	1.98121E+05	-22.997
500.00	65.637	3.21579E+05	273.98	1.84591E+05	-19.284
550.00	67.155	3.24899E+05	280.30	1.70732E+05	-16.214
600.00	68.552	3.28293E+05	286.21	1.56568E+05	-13.630
650.00	69.850	3.31753E+05	291.75	1.42117E+05	-11.420
700.00	71.061	3.35276E+05	296.97	1.27398E+05	-9.5063
750.00	72.196	3.38858E+05	301.91	1.12425E+05	-7.8298
800.00	73.261	3.42495E+05	306.60	97211.	-6.3471
850.00	74.261	3.46183E+05	311.08	81768.	-5.0247
900.00	75.199	3.49920E+05	315.35	66107.	-3.8367
950.00	76.078	3.53702E+05	319.44	50237.	-2.7621
1000.0	76.899	3.57526E+05	323.36	34166.	-1.7846
1050.0	77.665	3.61391E+05	327.13	17903.	-0.89061
1100.0	78.377	3.65292E+05	330.76	1455.3	-6.9E-02
1150.0	79.034	3.69228E+05	334.26	-15171.	0.68906
1200.0	79.639	3.73195E+05	337.64	-31969.	1.3915
1250.0	80.191	3.77191E+05	340.90	-48932.	2.0447
1300.0	80.688	3.81213E+05	344.05	-66057.	2.6541
1350.0	81.215	3.85261E+05	347.11	-83336.	3.2244
1400.0	81.694	3.89333E+05	350.07	-1.00766E+05	3.7595
1450.0	82.132	3.93429E+05	352.95	-1.18342E+05	4.2630
1500.0	82.535	3.97546E+05	355.74	-1.36059E+05	4.7379
1550.0	82.906	4.01682E+05	358.45	-1.53914E+05	5.1867
1600.0	83.250	4.05836E+05	361.09	-1.71903E+05	5.6119
1650.0	83.569	4.10007E+05	363.65	-1.90022E+05	6.0154
1700.0	83.867	4.14193E+05	366.15	-2.08267E+05	6.3991
1750.0	84.146	4.18393E+05	368.59	-2.26636E+05	6.7645
1800.0	84.408	4.22607E+05	370.96	-2.45125E+05	7.1132
1850.0	84.655	4.26834E+05	373.28	-2.63731E+05	7.4462
1900.0	84.888	4.31072E+05	375.54	-2.82452E+05	7.7649
1950.0	85.110	4.35322E+05	377.75	-3.01284E+05	8.0703
2000.0	85.320	4.39583E+05	379.90	-3.20226E+05	8.3632
2050.0	85.520	4.43854E+05	382.01	-3.39274E+05	8.6446
2100.0	85.711	4.48135E+05	384.08	-3.58426E+05	8.9151
2150.0	85.894	4.52425E+05	386.10	-3.77681E+05	9.1756
2200.0	86.069	4.56724E+05	388.07	-3.97035E+05	9.4266
2250.0	86.237	4.61032E+05	390.01	-4.16487E+05	9.6687
2300.0	86.399	4.65348E+05	391.91	-4.36035E+05	9.9024
2350.0	86.556	4.69672E+05	393.77	-4.55677E+05	10.128
2400.0	86.707	4.74003E+05	395.59	-4.75411E+05	10.347
2450.0	86.853	4.78342E+05	397.38	-4.95236E+05	10.558
2500.0	86.994	4.82689E+05	399.13	-5.15149E+05	10.763
2550.0	87.132	4.87042E+05	400.86	-5.35148E+05	10.962
2600.0	87.265	4.91402E+05	402.55	-5.55234E+05	11.155
2650.0	87.395	4.95768E+05	404.22	-5.75403E+05	11.342
2700.0	87.522	5.00141E+05	405.85	-5.95655E+05	11.523
2750.0	87.646	5.04520E+05	407.46	-6.15988E+05	11.700
2800.0	87.766	5.08906E+05	409.04	-6.36400E+05	11.872
2850.0	87.884	5.13297E+05	410.59	-6.56891E+05	12.039
2900.0	88.000	5.17694E+05	412.12	-6.77459E+05	12.202
2950.0	88.113	5.22097E+05	413.63	-6.98103E+05	12.361
3000.0	88.224	5.26505E+05	415.11	-7.18821E+05	12.515

KCN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	66.392	-1.13470E+05	127.78	-1.51567E+05	26.553
300.00	66.389	-1.13347E+05	128.19	-1.51804E+05	26.431
350.00	66.335	-1.10029E+05	138.42	-1.58476E+05	23.651
400.00	66.322	-1.06713E+05	147.28	-1.65623E+05	21.628
450.00	66.329	-1.03397E+05	155.09	-1.73186E+05	20.102
500.00	66.346	-1.00080E+05	162.08	-1.81118E+05	18.921
550.00	66.369	-96762.	168.40	-1.89383E+05	17.986
600.00	66.393	-93443.	174.18	-1.97949E+05	17.233
650.00	66.417	-90123.	179.49	-2.06793E+05	16.618
700.00	66.438	-86801.	184.42	-2.15892E+05	16.110
750.00	66.457	-83479.	189.00	-2.25229E+05	15.686
800.00	66.471	-80156.	193.29	-2.34787E+05	15.330
850.00	66.482	-76832.	197.32	-2.44553E+05	15.028
895.00	66.488	-73840.	200.75	-2.53510E+05	14.795
895.00	75.312	-59196.	217.11	-2.53511E+05	14.795
900.00	75.312	-58820.	217.53	-2.54597E+05	14.776
950.00	75.312	-55054.	221.60	-2.65576E+05	14.602
1000.0	75.312	-51288.	225.47	-2.76754E+05	14.456
1050.0	75.312	-47523.	229.14	-2.88120E+05	14.333
1100.0	75.312	-43757.	232.64	-2.99665E+05	14.230
1150.0	75.312	-39992.	235.99	-3.11381E+05	14.143
1200.0	75.312	-36226.	239.20	-3.23262E+05	14.071
1250.0	75.312	-32460.	242.27	-3.35299E+05	14.011
1300.0	75.312	-28695.	245.22	-3.47487E+05	13.962
1350.0	75.312	-24929.	248.07	-3.59820E+05	13.922
1400.0	75.312	-21164.	250.81	-3.72292E+05	13.890
1450.0	75.312	-17398.	253.45	-3.84899E+05	13.865
1500.0	75.312	-13632.	256.00	-3.97635E+05	13.847
1550.0	75.312	-9866.8	258.47	-4.10497E+05	13.833
1600.0	75.312	-6101.2	260.86	-4.23481E+05	13.825
1650.0	75.312	-2335.6	263.18	-4.36582E+05	13.821
1700.0	75.312	1430.0	265.43	-4.49798E+05	13.820
1750.0	75.312	5195.6	267.61	-4.63124E+05	13.823
1800.0	75.312	8961.2	269.73	-4.76558E+05	13.829
1850.0	75.312	12727.	271.80	-4.90096E+05	13.837
1900.0	75.312	16492.	273.80	-5.03737E+05	13.848
1950.0	75.312	20258.	275.76	-5.17476E+05	13.861
2000.0	75.312	24024.	277.67	-5.31312E+05	13.876
2050.0	75.312	27789.	279.53	-5.45242E+05	13.893
2100.0	75.312	31555.	281.34	-5.59264E+05	13.911
2150.0	75.312	35320.	283.11	-5.73375E+05	13.930
2200.0	75.312	39086.	284.85	-5.87575E+05	13.950
2250.0	75.312	42852.	286.54	-6.01859E+05	13.972
2300.0	75.312	46617.	288.19	-6.16228E+05	13.995
2350.0	75.312	50383.	289.81	-6.30678E+05	14.018
2400.0	75.312	54148.	291.40	-6.45209E+05	14.042
2450.0	75.312	57914.	292.95	-6.59817E+05	14.067
2500.0	75.312	61680.	294.47	-6.74503E+05	14.093

KCN<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.859	79496.	253.15	4020.8	-0.70441
300.00	50.893	79590.	253.46	3552.2	-0.61848
350.00	51.702	82156.	261.37	-9323.0	1.3914
400.00	52.368	84758.	268.32	-22569.	2.9471
450.00	52.951	87391.	274.52	-36142.	4.1952
500.00	53.483	90052.	280.13	-50011.	5.2244
550.00	53.982	92739.	285.25	-64147.	6.0920
600.00	54.458	95450.	289.96	-78529.	6.8363
650.00	54.919	98184.	294.34	-93138.	7.4844
700.00	55.368	1.00942E+05	298.43	-1.07958E+05	8.0557
750.00	55.810	1.03721E+05	302.26	-1.22976E+05	8.5646
800.00	56.246	1.06523E+05	305.88	-1.38181E+05	9.0220
850.00	56.669	1.09346E+05	309.30	-1.53561E+05	9.4365
900.00	57.046	1.12189E+05	312.55	-1.69108E+05	9.8145
950.00	57.387	1.15050E+05	315.65	-1.84813E+05	10.161
1000.0	57.696	1.17927E+05	318.60	-2.00670E+05	10.482
1050.0	57.979	1.20819E+05	321.42	-2.16671E+05	10.779
1100.0	58.240	1.23724E+05	324.12	-2.32810E+05	11.055
1150.0	58.481	1.26642E+05	326.72	-2.49081E+05	11.313
1200.0	58.705	1.29572E+05	329.21	-2.65480E+05	11.556
1250.0	58.913	1.32513E+05	331.61	-2.82001E+05	11.784
1300.0	59.108	1.35463E+05	333.93	-2.98639E+05	11.999
1350.0	59.290	1.38423E+05	336.16	-3.15392E+05	12.203
1400.0	59.461	1.41392E+05	338.32	-3.32254E+05	12.396
1450.0	59.621	1.44369E+05	340.41	-3.49223E+05	12.580
1500.0	59.771	1.47354E+05	342.43	-3.66294E+05	12.755
1550.0	59.911	1.50346E+05	344.39	-3.83465E+05	12.922
1600.0	60.043	1.53345E+05	346.30	-4.00732E+05	13.082
1650.0	60.166	1.56350E+05	348.15	-4.18094E+05	13.235
1700.0	60.281	1.59361E+05	349.95	-4.35546E+05	13.382
1750.0	60.388	1.62378E+05	351.69	-4.53087E+05	13.524
1800.0	60.488	1.65400E+05	353.40	-4.70715E+05	13.659
1850.0	60.581	1.68427E+05	355.06	-4.88426E+05	13.790
1900.0	60.666	1.71458E+05	356.67	-5.06220E+05	13.917
1950.0	60.745	1.74493E+05	358.25	-5.24093E+05	14.039
2000.0	60.817	1.77533E+05	359.79	-5.42044E+05	14.156
2050.0	60.882	1.80575E+05	361.29	-5.60071E+05	14.270
2100.0	60.941	1.83621E+05	362.76	-5.78173E+05	14.381
2150.0	60.994	1.86669E+05	364.19	-5.96347E+05	14.488
2200.0	61.040	1.89720E+05	365.60	-6.14592E+05	14.592
2250.0	61.094	1.92773E+05	366.97	-6.32906E+05	14.693
2300.0	61.145	1.95829E+05	368.31	-6.51288E+05	14.791
2350.0	61.192	1.98888E+05	369.63	-6.69736E+05	14.886
2400.0	61.237	2.01948E+05	370.92	-6.88250E+05	14.979
2450.0	61.279	2.05011E+05	372.18	-7.06828E+05	15.069
2500.0	61.318	2.08076E+05	373.42	-7.25468E+05	15.157
2550.0	61.356	2.11143E+05	374.63	-7.44169E+05	15.243
2600.0	61.391	2.14212E+05	375.82	-7.62931E+05	15.327
2650.0	61.425	2.17282E+05	376.99	-7.81751E+05	15.409
2700.0	61.457	2.20354E+05	378.14	-8.00630E+05	15.489
2750.0	61.487	2.23428E+05	379.27	-8.19565E+05	15.567
2800.0	61.516	2.26503E+05	380.38	-8.38556E+05	15.643
2850.0	61.543	2.29580E+05	381.47	-8.57602E+05	15.718
2900.0	61.569	2.32657E+05	382.54	-8.76703E+05	15.791
2950.0	61.594	2.35736E+05	383.59	-8.95856E+05	15.862
3000.0	61.618	2.38817E+05	384.63	-9.15061E+05	15.932

(KCN) 2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	110.27	-8368.0	373.13	-1.19616E+05	20.956
300.00	110.34	-8163.9	373.81	-1.20306E+05	20.947
350.00	112.01	-2603.0	390.95	-1.39435E+05	20.809
400.00	113.31	3031.1	405.99	-1.59367E+05	20.811
450.00	114.41	8724.5	419.40	-1.80008E+05	20.894
500.00	115.42	14470.	431.51	-2.01285E+05	21.028
550.00	116.39	20266.	442.56	-2.23141E+05	21.192
600.00	117.36	26110.	452.73	-2.45527E+05	21.374
650.00	118.32	32002.	462.16	-2.68402E+05	21.568
700.00	119.23	37941.	470.96	-2.91732E+05	21.769
750.00	120.08	43924.	479.22	-3.15489E+05	21.972
800.00	120.89	49949.	486.99	-3.39646E+05	22.176
850.00	121.65	56013.	494.35	-3.64181E+05	22.379
900.00	122.37	62113.	501.32	-3.89074E+05	22.581
950.00	123.04	68249.	507.95	-4.14307E+05	22.780
1000.0	123.68	74417.	514.28	-4.39864E+05	22.976
1050.0	124.27	80616.	520.33	-4.65731E+05	23.168
1100.0	124.82	86843.	526.12	-4.91893E+05	23.357
1150.0	125.34	93097.	531.68	-5.18339E+05	23.543
1200.0	125.81	99376.	537.03	-5.45058E+05	23.725
1250.0	126.24	1.05678E+05	542.17	-5.72039E+05	23.904
1300.0	126.64	1.12000E+05	547.13	-5.99272E+05	24.078
1350.0	127.00	1.18341E+05	551.92	-6.26749E+05	24.250
1400.0	127.31	1.24699E+05	556.54	-6.54461E+05	24.418
1450.0	127.64	1.31073E+05	561.02	-6.82401E+05	24.582
1500.0	127.94	1.37462E+05	565.35	-7.10560E+05	24.743
1550.0	128.21	1.43866E+05	569.55	-7.38933E+05	24.901
1600.0	128.46	1.50283E+05	573.62	-7.67513E+05	25.056
1650.0	128.69	1.56712E+05	577.58	-7.96294E+05	25.208
1700.0	128.90	1.63151E+05	581.42	-8.25269E+05	25.357
1750.0	129.10	1.69602E+05	585.16	-8.54434E+05	25.503
1800.0	129.28	1.76061E+05	588.80	-8.83784E+05	25.646
1850.0	129.46	1.82530E+05	592.35	-9.13313E+05	25.787
1900.0	129.62	1.89007E+05	595.80	-9.43017E+05	25.925
1950.0	129.77	1.95491E+05	599.17	-9.72892E+05	26.060
2000.0	129.91	2.01983E+05	602.46	-1.00293E+06	26.193
2050.0	130.04	2.08482E+05	605.67	-1.03314E+06	26.324
2100.0	130.16	2.14987E+05	608.80	-1.06350E+06	26.452
2150.0	130.28	2.21498E+05	611.87	-1.09402E+06	26.579
2200.0	130.39	2.28015E+05	614.86	-1.12468E+06	26.703
2250.0	130.50	2.34537E+05	617.79	-1.15550E+06	26.825
2300.0	130.60	2.41064E+05	620.66	-1.18646E+06	26.945
2350.0	130.69	2.47596E+05	623.47	-1.21757E+06	27.063
2400.0	130.78	2.54133E+05	626.23	-1.24881E+06	27.179
2450.0	130.86	2.60674E+05	628.92	-1.28019E+06	27.293
2500.0	130.94	2.67219E+05	631.57	-1.31170E+06	27.406
2550.0	131.02	2.73768E+05	634.16	-1.34334E+06	27.517
2600.0	131.09	2.80321E+05	636.71	-1.37512E+06	27.626
2650.0	131.16	2.86878E+05	639.20	-1.40701E+06	27.733
2700.0	131.23	2.93438E+05	641.66	-1.43903E+06	27.839
2750.0	131.29	3.00001E+05	644.06	-1.47118E+06	27.943
2800.0	131.35	3.06567E+05	646.43	-1.50344E+06	28.046
2850.0	131.41	3.13136E+05	648.76	-1.53582E+06	28.148
2900.0	131.46	3.19707E+05	651.04	-1.56832E+06	28.248
2950.0	131.51	3.26282E+05	653.29	-1.60092E+06	28.346
3000.0	131.56	3.32859E+05	655.50	-1.63364E+06	28.444

NaCN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	68.680	-90709.	118.47	-1.26030E+05	22.079
300.00	68.678	-90582.	118.89	-1.26249E+05	21.981
350.00	68.650	-87149.	129.48	-1.32466E+05	19.769
400.00	68.663	-83716.	138.64	-1.39174E+05	18.174
450.00	68.697	-80282.	146.73	-1.46312E+05	16.983
500.00	68.742	-76846.	153.97	-1.53833E+05	16.070
550.00	68.793	-73408.	160.53	-1.61698E+05	15.356
600.00	68.846	-69967.	166.51	-1.69876E+05	14.789
650.00	68.900	-66523.	172.03	-1.78341E+05	14.331
700.00	68.953	-63077.	177.14	-1.87072E+05	13.959
750.00	69.003	-59628.	181.89	-1.96049E+05	13.654
800.00	69.050	-56177.	186.35	-2.05256E+05	13.402
835.00	69.082	-53760.	189.31	-2.11831E+05	13.251
835.00	79.496	-44973.	199.83	-2.11831E+05	13.251
850.00	79.496	-43781.	201.24	-2.14839E+05	13.202
900.00	79.496	-39806.	205.79	-2.25016E+05	13.059
950.00	79.496	-35831.	210.09	-2.35414E+05	12.944
1000.0	79.496	-31857.	214.16	-2.46021E+05	12.850
1050.0	79.496	-27882.	218.04	-2.56827E+05	12.776
1100.0	79.496	-23907.	221.74	-2.67822E+05	12.717
1150.0	79.496	-19932.	225.27	-2.78998E+05	12.672
1200.0	79.496	-15957.	228.66	-2.90347E+05	12.638
1250.0	79.496	-11983.	231.90	-3.01861E+05	12.614
1300.0	79.496	-8007.9	235.02	-3.13535E+05	12.598
1350.0	79.496	-4033.1	238.02	-3.25362E+05	12.589
1400.0	79.496	-58.281	240.91	-3.37335E+05	12.586
1450.0	79.496	3916.5	243.70	-3.49451E+05	12.588
1500.0	79.496	7891.3	246.40	-3.61704E+05	12.595
1550.0	79.496	11866.	249.00	-3.74089E+05	12.606
1600.0	79.496	15841.	251.53	-3.86603E+05	12.621
1650.0	79.496	19816.	253.97	-3.99241E+05	12.639
1700.0	79.496	23791.	256.35	-4.11999E+05	12.659
1750.0	79.496	27765.	258.65	-4.24874E+05	12.681
1800.0	79.496	31740.	260.89	-4.37863E+05	12.706
1850.0	79.496	35715.	263.07	-4.50962E+05	12.733
1900.0	79.496	39690.	265.19	-4.64169E+05	12.761
1950.0	79.496	43665.	267.25	-4.77480E+05	12.790
2000.0	79.496	47639.	269.27	-4.90893E+05	12.820
2050.0	79.496	51614.	271.23	-5.04406E+05	12.852
2100.0	79.496	55589.	273.14	-5.18016E+05	12.885
2150.0	79.496	59564.	275.02	-5.31720E+05	12.918
2200.0	79.496	63539.	276.84	-5.45516E+05	12.952
2250.0	79.496	67513.	278.63	-5.59403E+05	12.986
2300.0	79.496	71488.	280.38	-5.73379E+05	13.022
2350.0	79.496	75463.	282.09	-5.87440E+05	13.057
2400.0	79.496	79438.	283.76	-6.01587E+05	13.093
2450.0	79.496	83413.	285.40	-6.15816E+05	13.129
2500.0	79.496	87387.	287.01	-6.30126E+05	13.165
2550.0	79.496	91362.	288.58	-6.44516E+05	13.202
2600.0	79.496	95337.	290.12	-6.58984E+05	13.239
2650.0	79.496	99312.	291.64	-6.73528E+05	13.276
2700.0	79.496	1.03287E+05	293.12	-6.88147E+05	13.313
2750.0	79.496	1.07261E+05	294.58	-7.02840E+05	13.350
2800.0	79.496	1.11236E+05	296.01	-7.17605E+05	13.387
2850.0	79.496	1.15211E+05	297.42	-7.32441E+05	13.424
2900.0	79.496	1.19186E+05	298.80	-7.47346E+05	13.461
2950.0	79.496	1.23161E+05	300.16	-7.62321E+05	13.498
3000.0	79.496	1.27135E+05	301.50	-7.77362E+05	13.535

NaCN<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.182	94266.	243.36	21707.	-3.8028
300.00	50.223	94358.	243.67	21256.	-3.7010
350.00	51.180	96894.	251.49	8872.8	-1.3242
400.00	51.946	99473.	258.38	-3877.3	0.50631
450.00	52.600	1.02087E+05	264.53	-16953.	1.9678
500.00	53.184	1.04732E+05	270.11	-30321.	3.1675
550.00	53.723	1.07405E+05	275.20	-43955.	4.1744
600.00	54.230	1.10104E+05	279.90	-57834.	5.0348
650.00	54.715	1.12828E+05	284.26	-71939.	5.7810
700.00	55.183	1.15575E+05	288.33	-86255.	6.4363
750.00	55.640	1.18346E+05	292.15	-1.00768E+05	7.0179
800.00	56.086	1.21139E+05	295.76	-1.15467E+05	7.5390
850.00	56.521	1.23954E+05	299.17	-1.30341E+05	8.0096
900.00	56.909	1.26790E+05	302.41	-1.45381E+05	8.4375
950.00	57.259	1.29645E+05	305.50	-1.60579E+05	8.8290
1000.0	57.577	1.32516E+05	308.44	-1.75928E+05	9.1893
1050.0	57.867	1.35402E+05	311.26	-1.91422E+05	9.5225
1100.0	58.135	1.38302E+05	313.96	-2.07052E+05	9.8319
1150.0	58.382	1.41215E+05	316.55	-2.22816E+05	10.120
1200.0	58.612	1.44140E+05	319.04	-2.38706E+05	10.390
1250.0	58.826	1.47076E+05	321.43	-2.54718E+05	10.644
1300.0	59.026	1.50022E+05	323.75	-2.70848E+05	10.883
1350.0	59.212	1.52978E+05	325.98	-2.87091E+05	11.108
1400.0	59.387	1.55943E+05	328.13	-3.03444E+05	11.321
1450.0	59.551	1.58917E+05	330.22	-3.19903E+05	11.524
1500.0	59.704	1.61898E+05	332.24	-3.36465E+05	11.716
1550.0	59.848	1.64887E+05	334.20	-3.53127E+05	11.900
1600.0	59.983	1.67883E+05	336.10	-3.69884E+05	12.075
1650.0	60.109	1.70885E+05	337.95	-3.86736E+05	12.243
1700.0	60.227	1.73894E+05	339.75	-4.03679E+05	12.403
1750.0	60.337	1.76908E+05	341.50	-4.20710E+05	12.557
1800.0	60.439	1.79927E+05	343.20	-4.37828E+05	12.705
1850.0	60.534	1.82951E+05	344.85	-4.55029E+05	12.847
1900.0	60.621	1.85980E+05	346.47	-4.72312E+05	12.984
1950.0	60.701	1.89013E+05	348.05	-4.89675E+05	13.117
2000.0	60.775	1.92050E+05	349.58	-5.07116E+05	13.244
2050.0	60.842	1.95091E+05	351.08	-5.24633E+05	13.367
2100.0	60.902	1.98134E+05	352.55	-5.42224E+05	13.487
2150.0	60.955	2.01181E+05	353.99	-5.59888E+05	13.602
2200.0	61.003	2.04230E+05	355.39	-5.77622E+05	13.714
2250.0	61.058	2.07281E+05	356.76	-5.95426E+05	13.823
2300.0	61.110	2.10336E+05	358.10	-6.13298E+05	13.928
2350.0	61.159	2.13392E+05	359.42	-6.31236E+05	14.030
2400.0	61.205	2.16452E+05	360.70	-6.49239E+05	14.130
2450.0	61.249	2.19513E+05	361.97	-6.67306E+05	14.227
2500.0	61.290	2.22576E+05	363.20	-6.85435E+05	14.321
2550.0	61.328	2.25642E+05	364.42	-7.03626E+05	14.413
2600.0	61.365	2.28709E+05	365.61	-7.21877E+05	14.502
2650.0	61.400	2.31778E+05	366.78	-7.40186E+05	14.590
2700.0	61.433	2.34849E+05	367.93	-7.58554E+05	14.675
2750.0	61.464	2.37922E+05	369.05	-7.76979E+05	14.758
2800.0	61.493	2.40995E+05	370.16	-7.95459E+05	14.839
2850.0	61.521	2.44071E+05	371.25	-8.13995E+05	14.918
2900.0	61.548	2.47148E+05	372.32	-8.32584E+05	14.996
2950.0	61.574	2.50226E+05	373.37	-8.51226E+05	15.072
3000.0	61.598	2.53305E+05	374.41	-8.69921E+05	15.146

Ca

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.941	0.00000E+00	41.588	-12399.	2.1723
300.00	25.945	47.994	41.748	-12477.	2.1723
350.00	26.268	1351.8	45.767	-14667.	2.1888
400.00	26.867	2679.3	49.312	-17045.	2.2259
450.00	27.627	4041.2	52.519	-19592.	2.2742
500.00	28.487	5443.7	55.474	-22293.	2.3289
550.00	29.412	6890.9	58.232	-25137.	2.3872
600.00	30.381	8385.6	60.832	-28114.	2.4475
650.00	31.382	9929.6	63.303	-31218.	2.5086
700.00	32.405	11524.	65.666	-34442.	2.5700
716.00	32.737	12045.	66.402	-35499.	2.5897
716.00	31.503	12974.	67.700	-35499.	2.5897
750.00	32.424	14061.	69.182	-37826.	2.6344
800.00	33.818	15717.	71.319	-41339.	2.6991
850.00	35.250	17443.	73.412	-44957.	2.7627
900.00	36.713	19242.	75.468	-48679.	2.8252
950.00	38.200	21115.	77.493	-52503.	2.8868
1000.0	39.706	23063.	79.491	-56428.	2.9474
1050.0	41.228	25086.	81.465	-60452.	3.0072
1100.0	42.763	27186.	83.418	-64574.	3.0663
1115.0	43.226	27830.	84.000	-65830.	3.0839
1115.0	35.000	36370.	91.659	-65830.	3.0839
1150.0	35.000	37595.	92.741	-69057.	3.1366
1200.0	35.000	39345.	94.230	-73731.	3.2094
1250.0	35.000	41095.	95.659	-78479.	3.2794
1300.0	35.000	42845.	97.032	-83296.	3.3468
1350.0	35.000	44595.	98.353	-88181.	3.4119
1400.0	35.000	46345.	99.626	-93131.	3.4747
1450.0	35.000	48095.	100.85	-98143.	3.5354
1500.0	35.000	49845.	102.04	-1.03216E+05	3.5942
1550.0	35.000	51595.	103.19	-1.08346E+05	3.6512
1600.0	35.000	53345.	104.30	-1.13534E+05	3.7064
1650.0	35.000	55095.	105.38	-1.18776E+05	3.7600
1700.0	35.000	56845.	106.42	-1.24071E+05	3.8121
1750.0	35.000	58595.	107.44	-1.29417E+05	3.8628
1800.0	35.000	60345.	108.42	-1.34814E+05	3.9121
1850.0	35.000	62095.	109.38	-1.40259E+05	3.9601
1900.0	35.000	63845.	110.31	-1.45752E+05	4.0069
1950.0	35.000	65595.	111.22	-1.51290E+05	4.0525
2000.0	35.000	67345.	112.11	-1.56873E+05	4.0970
2050.0	35.000	69095.	112.97	-1.62501E+05	4.1405
2100.0	35.000	70845.	113.82	-1.68170E+05	4.1829
2150.0	35.000	72595.	114.64	-1.73882E+05	4.2244
2200.0	35.000	74345.	115.45	-1.79634E+05	4.2650
2250.0	35.000	76095.	116.23	-1.85426E+05	4.3046
2300.0	35.000	77845.	117.00	-1.91257E+05	4.3435
2350.0	35.000	79595.	117.75	-1.97126E+05	4.3815
2400.0	35.000	81345.	118.49	-2.03032E+05	4.4188
2450.0	35.000	83095.	119.21	-2.08975E+05	4.4553
2500.0	35.000	84845.	119.92	-2.14953E+05	4.4911
2550.0	35.000	86595.	120.61	-2.20967E+05	4.5262
2600.0	35.000	88345.	121.29	-2.27014E+05	4.5607
2650.0	35.000	90095.	121.96	-2.33096E+05	4.5945
2700.0	35.000	91845.	122.61	-2.39210E+05	4.6277
2750.0	35.000	93595.	123.26	-2.45357E+05	4.6603
2800.0	35.000	95345.	123.89	-2.51535E+05	4.6923
2850.0	35.000	97095.	124.51	-2.57745E+05	4.7238
2900.0	35.000	98845.	125.11	-2.63986E+05	4.7548
2950.0	35.000	1.00595E+05	125.71	-2.70256E+05	4.7852
3000.0	35.000	1.02345E+05	126.30	-2.76557E+05	4.8152

Ca<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.780	1.77800E+05	154.89	1.31621E+05	-23.059
300.00	20.781	1.77838E+05	155.01	1.31334E+05	-22.867
350.00	20.795	1.78878E+05	158.22	1.23502E+05	-18.431
400.00	20.800	1.79918E+05	161.00	1.15520E+05	-15.085
450.00	20.801	1.80958E+05	163.45	1.07407E+05	-12.467
500.00	20.800	1.81998E+05	165.64	99179.	-10.361
550.00	20.797	1.83038E+05	167.62	90847.	-8.6277
600.00	20.793	1.84078E+05	169.43	82420.	-7.1752
650.00	20.789	1.85117E+05	171.09	73907.	-5.9391
700.00	20.785	1.86156E+05	172.63	65313.	-4.8736
750.00	20.782	1.87196E+05	174.07	56645.	-3.9450
800.00	20.779	1.88235E+05	175.41	47908.	-3.1280
850.00	20.776	1.89274E+05	176.67	39106.	-2.4031
900.00	20.774	1.90312E+05	177.86	30242.	-1.7552
950.00	20.773	1.91351E+05	178.98	21321.	-1.1723
1000.0	20.772	1.92390E+05	180.04	12346.	-0.64485
1050.0	20.772	1.93428E+05	181.06	3317.8	-0.16505
1100.0	20.772	1.94467E+05	182.02	-5759.5	0.27349
1150.0	20.774	1.95505E+05	182.95	-14884.	0.67603
1200.0	20.776	1.96544E+05	183.83	-24054.	1.0470
1250.0	20.779	1.97583E+05	184.68	-33266.	1.3901
1300.0	20.782	1.98622E+05	185.49	-42521.	1.7085
1350.0	20.787	1.99661E+05	186.28	-51815.	2.0048
1400.0	20.792	2.00701E+05	187.04	-61148.	2.2814
1450.0	20.798	2.01740E+05	187.76	-70518.	2.5403
1500.0	20.805	2.02781E+05	188.47	-79924.	2.7831
1550.0	20.812	2.03821E+05	189.15	-89365.	3.0115
1600.0	20.821	2.04862E+05	189.81	-98839.	3.2267
1650.0	20.830	2.05903E+05	190.45	-1.08346E+05	3.4299
1700.0	20.840	2.06945E+05	191.08	-1.17884E+05	3.6221
1750.0	20.851	2.07987E+05	191.68	-1.27453E+05	3.8042
1800.0	20.862	2.09030E+05	192.27	-1.37052E+05	3.9770
1850.0	20.875	2.10073E+05	192.84	-1.46680E+05	4.1414
1900.0	20.888	2.11117E+05	193.40	-1.56336E+05	4.2979
1950.0	20.918	2.12162E+05	193.94	-1.66019E+05	4.4470
2000.0	20.952	2.13209E+05	194.47	-1.75730E+05	4.5895
2050.0	20.992	2.14258E+05	194.99	-1.85466E+05	4.7256
2100.0	21.040	2.15309E+05	195.49	-1.95228E+05	4.8559
2150.0	21.096	2.16362E+05	195.99	-2.05015E+05	4.9808
2200.0	21.163	2.17418E+05	196.48	-2.14827E+05	5.1005
2250.0	21.242	2.18478E+05	196.95	-2.24663E+05	5.2155
2300.0	21.332	2.19543E+05	197.42	-2.34522E+05	5.3260
2350.0	21.436	2.20612E+05	197.88	-2.44404E+05	5.4324
2400.0	21.554	2.21687E+05	198.33	-2.54310E+05	5.5348
2450.0	21.686	2.22767E+05	198.78	-2.64237E+05	5.6335
2500.0	21.834	2.23855E+05	199.22	-2.74187E+05	5.7287
2550.0	21.998	2.24951E+05	199.65	-2.84159E+05	5.8206
2600.0	22.178	2.26055E+05	200.08	-2.94152E+05	5.9094
2650.0	22.375	2.27169E+05	200.50	-3.04167E+05	5.9953
2700.0	22.589	2.28293E+05	200.92	-3.14203E+05	6.0785
2750.0	22.822	2.29428E+05	201.34	-3.24259E+05	6.1590
2800.0	23.072	2.30576E+05	201.75	-3.34337E+05	6.2370
2850.0	23.340	2.31736E+05	202.17	-3.44435E+05	6.3126
2900.0	23.628	2.32910E+05	202.57	-3.54553E+05	6.3860
2950.0	23.934	2.34099E+05	202.98	-3.64692E+05	6.4573
3000.0	24.259	2.35304E+05	203.38	-3.74851E+05	6.5266

CaH<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.890	2.29409E+05	201.84	1.69230E+05	-29.648
300.00	29.912	2.29464E+05	202.03	1.68856E+05	-29.400
350.00	30.531	2.30975E+05	206.68	1.58636E+05	-23.675
400.00	31.166	2.32518E+05	210.80	1.48197E+05	-19.352
450.00	31.789	2.34092E+05	214.51	1.37562E+05	-15.967
500.00	32.387	2.35696E+05	217.89	1.26751E+05	-13.241
550.00	32.950	2.37330E+05	221.00	1.15778E+05	-10.995
600.00	33.475	2.38991E+05	223.89	1.04655E+05	-9.1108
650.00	33.958	2.40677E+05	226.59	93392.	-7.5049
700.00	34.397	2.42386E+05	229.12	81998.	-6.1186
750.00	34.790	2.44115E+05	231.51	70482.	-4.9087
800.00	35.137	2.45864E+05	233.77	58849.	-3.8424
850.00	35.424	2.47628E+05	235.91	47107.	-2.8948
900.00	35.689	2.49406E+05	237.94	35260.	-2.0464
950.00	35.936	2.51197E+05	239.88	23315.	-1.2819
1000.0	36.168	2.52999E+05	241.72	11274.	-0.58889
1050.0	36.385	2.54813E+05	243.49	-856.55	4.2E-02
1100.0	36.591	2.56637E+05	245.19	-13074.	0.62082
1150.0	36.787	2.58472E+05	246.82	-25375.	1.1525
1200.0	36.972	2.60316E+05	248.39	-37755.	1.6434
1250.0	37.150	2.62169E+05	249.91	-50213.	2.0982
1300.0	37.319	2.64031E+05	251.37	-62745.	2.5211
1350.0	37.480	2.65901E+05	252.78	-75349.	2.9153
1400.0	37.635	2.67779E+05	254.14	-88022.	3.2841
1450.0	37.783	2.69664E+05	255.47	-1.00762E+05	3.6298
1500.0	37.925	2.71557E+05	256.75	-1.13568E+05	3.9547
1550.0	38.061	2.73457E+05	258.00	-1.26437E+05	4.2608
1600.0	38.190	2.75363E+05	259.21	-1.39367E+05	4.5497
1650.0	38.315	2.77276E+05	260.38	-1.52357E+05	4.8231
1700.0	38.434	2.79194E+05	261.53	-1.65405E+05	5.0821
1750.0	38.547	2.81119E+05	262.64	-1.78509E+05	5.3281
1800.0	38.656	2.83049E+05	263.73	-1.91669E+05	5.5619
1850.0	38.759	2.84984E+05	264.79	-2.04882E+05	5.7847
1900.0	38.857	2.86925E+05	265.83	-2.18148E+05	5.9971
1950.0	38.951	2.88870E+05	266.84	-2.31464E+05	6.2001
2000.0	39.039	2.90820E+05	267.83	-2.44831E+05	6.3942
2050.0	39.123	2.92774E+05	268.79	-2.58247E+05	6.5800
2100.0	39.202	2.94732E+05	269.73	-2.71710E+05	6.7582
2150.0	39.277	2.96694E+05	270.66	-2.85220E+05	6.9293
2200.0	39.346	2.98660E+05	271.56	-2.98775E+05	7.0936
2250.0	39.412	3.00628E+05	272.45	-3.12375E+05	7.2517
2300.0	39.472	3.02601E+05	273.31	-3.26019E+05	7.4039
2350.0	39.528	3.04576E+05	274.16	-3.39706E+05	7.5506
2400.0	39.580	3.06553E+05	275.00	-3.53435E+05	7.6921
2450.0	39.627	3.08534E+05	275.81	-3.67206E+05	7.8287
2500.0	39.670	3.10516E+05	276.61	-3.81016E+05	7.9607
2550.0	39.708	3.12500E+05	277.40	-3.94867E+05	8.0883
2600.0	39.742	3.14487E+05	278.17	-4.08756E+05	8.2118
2650.0	39.771	3.16475E+05	278.93	-4.22683E+05	8.3314
2700.0	39.796	3.18464E+05	279.67	-4.36649E+05	8.4473
2750.0	39.817	3.20454E+05	280.40	-4.50650E+05	8.5596
2800.0	39.834	3.22445E+05	281.12	-4.64688E+05	8.6687
2850.0	39.846	3.24437E+05	281.82	-4.78762E+05	8.7745
2900.0	39.853	3.26430E+05	282.52	-4.92871E+05	8.8773
2950.0	39.857	3.28423E+05	283.20	-5.07014E+05	8.9773
3000.0	39.856	3.30416E+05	283.87	-5.21190E+05	9.0745

CaH2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	41.000	-1.77000E+05	41.400	-1.89343E+05	33.171
300.00	41.069	-1.76924E+05	41.654	-1.89420E+05	32.980
350.00	42.925	-1.74824E+05	48.124	-1.91668E+05	28.604
400.00	44.782	-1.72632E+05	53.977	-1.94222E+05	25.362
450.00	46.638	-1.70346E+05	59.359	-1.97058E+05	22.873
500.00	48.494	-1.67968E+05	64.369	-2.00152E+05	20.909
550.00	50.351	-1.65497E+05	69.078	-2.03489E+05	19.325
600.00	52.207	-1.62933E+05	73.538	-2.07056E+05	18.025
650.00	54.064	-1.60276E+05	77.791	-2.10840E+05	16.943
700.00	55.920	-1.57526E+05	81.865	-2.14832E+05	16.031
750.00	57.776	-1.54684E+05	85.786	-2.19024E+05	15.254
800.00	59.633	-1.51749E+05	89.574	-2.23408E+05	14.587
850.00	61.489	-1.48721E+05	93.245	-2.27979E+05	14.010
900.00	63.346	-1.45600E+05	96.813	-2.32731E+05	13.507
950.00	65.202	-1.42386E+05	100.29	-2.37659E+05	13.067
1000.0	67.059	-1.39080E+05	103.68	-2.42758E+05	12.680
1050.0	68.916	-1.35680E+05	107.00	-2.48026E+05	12.338
1053.0	69.027	-1.35473E+05	107.19	-2.48347E+05	12.319
1053.0	69.000	-1.28773E+05	113.56	-2.48347E+05	12.319
1100.0	69.000	-1.25530E+05	116.57	-2.53755E+05	12.050
1150.0	69.000	-1.22080E+05	119.64	-2.59661E+05	11.794
1200.0	69.000	-1.18630E+05	122.57	-2.65717E+05	11.566
1250.0	69.000	-1.15180E+05	125.39	-2.71916E+05	11.362
1273.0	69.000	-1.13593E+05	126.65	-2.74815E+05	11.276
1273.0	75.000	-91593.	143.93	-2.74815E+05	11.276
1300.0	75.000	-89568.	145.50	-2.78722E+05	11.199
1350.0	75.000	-85818.	148.33	-2.86068E+05	11.068
1400.0	75.000	-82068.	151.06	-2.93554E+05	10.952
1450.0	75.000	-78318.	153.69	-3.01173E+05	10.849
1500.0	75.000	-74568.	156.24	-3.08921E+05	10.757
1550.0	75.000	-70818.	158.69	-3.16795E+05	10.676
1600.0	75.000	-67068.	161.08	-3.24790E+05	10.603
1650.0	75.000	-63318.	163.38	-3.32901E+05	10.539
1700.0	75.000	-59568.	165.62	-3.41127E+05	10.481
1750.0	75.000	-55818.	167.80	-3.49463E+05	10.431
1800.0	75.000	-52068.	169.91	-3.57905E+05	10.386
1850.0	75.000	-48318.	171.96	-3.66453E+05	10.347
1900.0	75.000	-44568.	173.96	-3.75101E+05	10.312
1950.0	75.000	-40818.	175.91	-3.83848E+05	10.282
2000.0	75.000	-37068.	177.81	-3.92691E+05	10.256

CaF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.655	-2.76403E+05	229.13	-3.44719E+05	60.392
300.00	33.694	-2.76341E+05	229.34	-3.45143E+05	60.093
350.00	34.559	-2.74633E+05	234.61	-3.56745E+05	53.240
400.00	35.153	-2.72889E+05	239.26	-3.68594E+05	48.132
450.00	35.586	-2.71120E+05	243.43	-3.80663E+05	44.185
500.00	35.920	-2.69332E+05	247.20	-3.92930E+05	41.048
550.00	36.186	-2.67529E+05	250.63	-4.05377E+05	38.499
600.00	36.406	-2.65714E+05	253.79	-4.17989E+05	36.388
650.00	36.592	-2.63889E+05	256.71	-4.30752E+05	34.615
700.00	36.753	-2.62056E+05	259.43	-4.43656E+05	33.105
750.00	36.893	-2.60214E+05	261.97	-4.56692E+05	31.806
800.00	37.018	-2.58367E+05	264.36	-4.69851E+05	30.677
850.00	37.129	-2.56513E+05	266.60	-4.83125E+05	29.689
900.00	37.229	-2.54654E+05	268.73	-4.96509E+05	28.816
950.00	37.320	-2.52790E+05	270.74	-5.09996E+05	28.041
1000.0	37.403	-2.50922E+05	272.66	-5.23582E+05	27.348
1050.0	37.478	-2.49050E+05	274.49	-5.37261E+05	26.727
1100.0	37.546	-2.47174E+05	276.23	-5.51029E+05	26.166
1150.0	37.608	-2.45295E+05	277.90	-5.64883E+05	25.657
1200.0	37.664	-2.43414E+05	279.50	-5.78818E+05	25.195
1250.0	37.714	-2.41529E+05	281.04	-5.92832E+05	24.772
1300.0	37.760	-2.39642E+05	282.52	-6.06921E+05	24.386
1350.0	37.800	-2.37753E+05	283.95	-6.21083E+05	24.031
1400.0	37.836	-2.35862E+05	285.32	-6.35315E+05	23.703
1450.0	37.883	-2.33969E+05	286.65	-6.49615E+05	23.401
1500.0	37.926	-2.32074E+05	287.94	-6.63980E+05	23.121
1550.0	37.967	-2.30177E+05	289.18	-6.78408E+05	22.862
1600.0	38.006	-2.28277E+05	290.39	-6.92897E+05	22.620
1650.0	38.044	-2.26376E+05	291.56	-7.07446E+05	22.395
1700.0	38.082	-2.24473E+05	292.69	-7.22053E+05	22.185
1750.0	38.119	-2.22568E+05	293.80	-7.36715E+05	21.989
1800.0	38.157	-2.20661E+05	294.87	-7.51432E+05	21.805
1850.0	38.195	-2.18752E+05	295.92	-7.66202E+05	21.633
1900.0	38.235	-2.16842E+05	296.94	-7.81023E+05	21.471
1950.0	38.275	-2.14929E+05	297.93	-7.95895E+05	21.319
2000.0	38.317	-2.13014E+05	298.90	-8.10816E+05	21.176
2050.0	38.361	-2.11097E+05	299.85	-8.25785E+05	21.041
2100.0	38.406	-2.09178E+05	300.77	-8.40801E+05	20.913
2150.0	38.454	-2.07256E+05	301.68	-8.55862E+05	20.793
2200.0	38.503	-2.05333E+05	302.56	-8.70968E+05	20.679
2250.0	38.555	-2.03406E+05	303.43	-8.86118E+05	20.571
2300.0	38.609	-2.01477E+05	304.28	-9.01310E+05	20.469
2350.0	38.666	-1.99545E+05	305.11	-9.16545E+05	20.372
2400.0	38.725	-1.97610E+05	305.92	-9.31821E+05	20.280
2450.0	38.787	-1.95673E+05	306.72	-9.47137E+05	20.193
2500.0	38.852	-1.93732E+05	307.50	-9.62492E+05	20.110
2550.0	38.919	-1.91787E+05	308.27	-9.77887E+05	20.031
2600.0	38.989	-1.89840E+05	309.03	-9.93320E+05	19.956
2650.0	39.063	-1.87888E+05	309.77	-1.00879E+06	19.884
2700.0	39.139	-1.85933E+05	310.51	-1.02430E+06	19.816
2750.0	39.218	-1.83974E+05	311.22	-1.03984E+06	19.751
2800.0	39.300	-1.82011E+05	311.93	-1.05542E+06	19.689
2850.0	39.385	-1.80044E+05	312.63	-1.07103E+06	19.629
2900.0	39.473	-1.78073E+05	313.31	-1.08668E+06	19.573
2950.0	39.564	-1.76097E+05	313.99	-1.10236E+06	19.519
3000.0	39.659	-1.74116E+05	314.65	-1.11808E+06	19.467

CaF2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	51.272	-7.84500E+05	273.79	-8.66131E+05	151.74
300.00	51.342	-7.84405E+05	274.11	-8.66638E+05	150.89
350.00	52.862	-7.81797E+05	282.15	-8.80549E+05	131.41
400.00	53.906	-7.79127E+05	289.28	-8.94838E+05	116.85
450.00	54.667	-7.76412E+05	295.67	-9.09464E+05	105.57
500.00	55.247	-7.73663E+05	301.46	-9.24395E+05	96.568
550.00	55.703	-7.70889E+05	306.75	-9.39602E+05	89.234
600.00	56.072	-7.68094E+05	311.61	-9.55063E+05	83.144
650.00	56.373	-7.65283E+05	316.12	-9.70758E+05	78.009
700.00	56.622	-7.62458E+05	320.30	-9.86670E+05	73.624
750.00	56.829	-7.59621E+05	324.22	-1.00278E+06	69.838
800.00	57.000	-7.56775E+05	327.89	-1.01909E+06	66.538
850.00	57.141	-7.53922E+05	331.35	-1.03557E+06	63.637
900.00	57.254	-7.51062E+05	334.62	-1.05222E+06	61.068
950.00	57.342	-7.48197E+05	337.72	-1.06903E+06	58.778
1000.0	57.409	-7.45328E+05	340.66	-1.08599E+06	56.725
1050.0	57.481	-7.42456E+05	343.46	-1.10309E+06	54.874
1100.0	57.544	-7.39580E+05	346.14	-1.12033E+06	53.199
1150.0	57.600	-7.36701E+05	348.70	-1.13770E+06	51.675
1200.0	57.648	-7.33820E+05	351.15	-1.15520E+06	50.283
1250.0	57.691	-7.30937E+05	353.50	-1.17282E+06	49.008
1300.0	57.729	-7.28051E+05	355.77	-1.19055E+06	47.836
1350.0	57.762	-7.25164E+05	357.95	-1.20839E+06	46.754
1400.0	57.793	-7.22275E+05	360.05	-1.22634E+06	45.754
1450.0	57.820	-7.19385E+05	362.08	-1.24440E+06	44.827
1500.0	57.844	-7.16493E+05	364.04	-1.26255E+06	43.965
1550.0	57.866	-7.13600E+05	365.93	-1.28080E+06	43.162
1600.0	57.887	-7.10706E+05	367.77	-1.29914E+06	42.412
1650.0	57.905	-7.07812E+05	369.55	-1.31757E+06	41.710
1700.0	57.922	-7.04916E+05	371.28	-1.33610E+06	41.052
1750.0	57.937	-7.02020E+05	372.96	-1.35470E+06	40.435
1800.0	57.951	-6.99122E+05	374.59	-1.37339E+06	39.854
1850.0	57.964	-6.96224E+05	376.18	-1.39216E+06	39.307
1900.0	57.976	-6.93326E+05	377.73	-1.41101E+06	38.790
1950.0	57.987	-6.90427E+05	379.23	-1.42993E+06	38.303
2000.0	57.998	-6.87527E+05	380.70	-1.44893E+06	37.841
2050.0	58.007	-6.84627E+05	382.13	-1.46800E+06	37.404
2100.0	58.016	-6.81726E+05	383.53	-1.48714E+06	36.990
2150.0	58.024	-6.78825E+05	384.90	-1.50636E+06	36.596
2200.0	58.032	-6.75924E+05	386.23	-1.52563E+06	36.222
2250.0	58.039	-6.73022E+05	387.54	-1.54498E+06	35.866
2300.0	58.046	-6.70120E+05	388.81	-1.56439E+06	35.527
2350.0	58.053	-6.67218E+05	390.06	-1.58386E+06	35.204
2400.0	58.059	-6.64315E+05	391.28	-1.60339E+06	34.896
2450.0	58.064	-6.61412E+05	392.48	-1.62299E+06	34.602
2500.0	58.070	-6.58508E+05	393.65	-1.64264E+06	34.320
2550.0	58.075	-6.55605E+05	394.80	-1.66235E+06	34.051
2600.0	58.079	-6.52701E+05	395.93	-1.68212E+06	33.793
2650.0	58.084	-6.49797E+05	397.04	-1.70194E+06	33.546
2700.0	58.088	-6.46893E+05	398.12	-1.72182E+06	33.310
2750.0	58.092	-6.43988E+05	399.19	-1.74176E+06	33.083
2800.0	58.096	-6.41083E+05	400.24	-1.76174E+06	32.865
2850.0	58.099	-6.38178E+05	401.26	-1.78178E+06	32.656
2900.0	58.103	-6.35273E+05	402.27	-1.80187E+06	32.454
2950.0	58.106	-6.32368E+05	403.27	-1.82201E+06	32.261
3000.0	58.109	-6.29463E+05	404.24	-1.84219E+06	32.075

CaCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.656	-1.03773E+05	241.63	-1.75816E+05	30.801
300.00	35.681	-1.03707E+05	241.85	-1.76263E+05	30.689
350.00	36.217	-1.01909E+05	247.40	-1.88497E+05	28.131
400.00	36.569	-1.00088E+05	252.26	-2.00991E+05	26.246
450.00	36.814	-98253.	256.58	-2.13714E+05	24.807
500.00	36.994	-96408.	260.47	-2.26642E+05	23.677
550.00	37.132	-94555.	264.00	-2.39755E+05	22.769
600.00	37.241	-92695.	267.24	-2.53037E+05	22.028
650.00	37.330	-90831.	270.22	-2.66474E+05	21.414
700.00	37.406	-88963.	272.99	-2.80055E+05	20.897
750.00	37.472	-87091.	275.57	-2.93770E+05	20.459
800.00	37.530	-85215.	277.99	-3.07610E+05	20.084
850.00	37.583	-83338.	280.27	-3.21567E+05	19.761
900.00	37.633	-81457.	282.42	-3.35635E+05	19.479
950.00	37.679	-79574.	284.46	-3.49807E+05	19.233
1000.0	37.724	-77689.	286.39	-3.64079E+05	19.017
1050.0	37.767	-75802.	288.23	-3.78444E+05	18.826
1100.0	37.809	-73913.	289.99	-3.92900E+05	18.657
1150.0	37.851	-72021.	291.67	-4.07442E+05	18.506
1200.0	37.893	-70128.	293.28	-4.22066E+05	18.372
1250.0	37.935	-68232.	294.83	-4.36769E+05	18.251
1300.0	37.977	-66334.	296.32	-4.51548E+05	18.143
1350.0	38.019	-64434.	297.75	-4.66400E+05	18.046
1400.0	38.062	-62532.	299.14	-4.81323E+05	17.958
1450.0	38.106	-60628.	300.47	-4.96313E+05	17.879
1500.0	38.150	-58721.	301.77	-5.11369E+05	17.807
1550.0	38.196	-56813.	303.02	-5.26489E+05	17.742
1600.0	38.242	-54902.	304.23	-5.41670E+05	17.683
1650.0	38.289	-52989.	305.41	-5.56911E+05	17.630
1700.0	38.337	-51073.	306.55	-5.72210E+05	17.581
1750.0	38.386	-49155.	307.66	-5.87566E+05	17.537
1800.0	38.436	-47234.	308.75	-6.02976E+05	17.497
1850.0	38.487	-45311.	309.80	-6.18440E+05	17.461
1900.0	38.540	-43386.	310.83	-6.33956E+05	17.428
1950.0	38.593	-41457.	311.83	-6.49522E+05	17.398
2000.0	38.648	-39526.	312.81	-6.65138E+05	17.371
2050.0	38.704	-37592.	313.76	-6.80802E+05	17.347
2100.0	38.761	-35656.	314.69	-6.96514E+05	17.324
2150.0	38.819	-33716.	315.61	-7.12271E+05	17.304
2200.0	38.879	-31774.	316.50	-7.28074E+05	17.286
2250.0	38.939	-29829.	317.37	-7.43921E+05	17.270
2300.0	39.001	-27880.	318.23	-7.59811E+05	17.255
2350.0	39.065	-25928.	319.07	-7.75744E+05	17.242
2400.0	39.129	-23973.	319.89	-7.91718E+05	17.231
2450.0	39.195	-22015.	320.70	-8.07733E+05	17.221
2500.0	39.262	-20054.	321.49	-8.23788E+05	17.212
2550.0	39.331	-18089.	322.27	-8.39882E+05	17.204
2600.0	39.400	-16121.	323.04	-8.56015E+05	17.197
2650.0	39.471	-14149.	323.79	-8.72185E+05	17.191
2700.0	39.546	-12174.	324.53	-8.88393E+05	17.187
2750.0	39.614	-10195.	325.25	-9.04638E+05	17.183
2800.0	39.692	-8212.2	325.97	-9.20918E+05	17.180
2850.0	39.781	-6225.4	326.67	-9.37234E+05	17.177
2900.0	39.879	-4234.0	327.36	-9.53585E+05	17.175
2950.0	39.986	-2237.4	328.05	-9.69970E+05	17.174
3000.0	40.101	-235.27	328.72	-9.86389E+05	17.174

CaCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.328	-4.71537E+05	290.26	-5.58077E+05	97.770
300.00	59.363	-4.71427E+05	290.62	-5.58614E+05	97.261
350.00	60.116	-4.68439E+05	299.84	-5.73381E+05	85.570
400.00	60.608	-4.65420E+05	307.90	-5.88579E+05	76.859
450.00	60.949	-4.62380E+05	315.06	-6.04156E+05	70.127
500.00	61.196	-4.59326E+05	321.49	-6.20072E+05	64.777
550.00	61.381	-4.56262E+05	327.33	-6.36295E+05	60.429
600.00	61.523	-4.53189E+05	332.68	-6.52798E+05	56.830
650.00	61.636	-4.50110E+05	337.61	-6.69556E+05	53.805
700.00	61.728	-4.47026E+05	342.18	-6.86553E+05	51.230
750.00	61.803	-4.43937E+05	346.44	-7.03769E+05	49.014
800.00	61.866	-4.40846E+05	350.43	-7.21192E+05	47.088
850.00	61.919	-4.37751E+05	354.19	-7.38809E+05	45.401
900.00	61.964	-4.34654E+05	357.73	-7.56607E+05	43.911
950.00	62.003	-4.31555E+05	361.08	-7.74578E+05	42.588
1000.0	62.038	-4.28454E+05	364.26	-7.92712E+05	41.406
1050.0	62.068	-4.25351E+05	367.29	-8.11001E+05	40.344
1100.0	62.094	-4.22247E+05	370.17	-8.29439E+05	39.386
1150.0	62.118	-4.19142E+05	372.93	-8.48017E+05	38.517
1200.0	62.139	-4.16035E+05	375.58	-8.66730E+05	37.727
1250.0	62.158	-4.12928E+05	378.12	-8.85573E+05	37.005
1300.0	62.175	-4.09819E+05	380.55	-9.04540E+05	36.344
1350.0	62.190	-4.06710E+05	382.90	-9.23627E+05	35.736
1400.0	62.204	-4.03601E+05	385.16	-9.42829E+05	35.176
1450.0	62.216	-4.00490E+05	387.35	-9.62142E+05	34.659
1500.0	62.227	-3.97379E+05	389.46	-9.81562E+05	34.180
1550.0	62.237	-3.94267E+05	391.50	-1.00109E+06	33.736
1600.0	62.246	-3.91155E+05	393.47	-1.02071E+06	33.322
1650.0	62.254	-3.88043E+05	395.39	-1.04043E+06	32.937
1700.0	62.261	-3.84930E+05	397.25	-1.06025E+06	32.577
1750.0	62.267	-3.81817E+05	399.05	-1.08016E+06	32.240
1800.0	62.272	-3.78703E+05	400.81	-1.10015E+06	31.925
1850.0	62.277	-3.75589E+05	402.51	-1.12024E+06	31.629
1900.0	62.281	-3.72476E+05	404.17	-1.14040E+06	31.351
1950.0	62.284	-3.69361E+05	405.79	-1.16065E+06	31.090
2000.0	62.287	-3.66247E+05	407.37	-1.18098E+06	30.843
2050.0	62.289	-3.63133E+05	408.91	-1.20139E+06	30.611
2100.0	62.290	-3.60018E+05	410.41	-1.22187E+06	30.392
2150.0	62.291	-3.56904E+05	411.87	-1.24243E+06	30.184
2200.0	62.291	-3.53789E+05	413.30	-1.26306E+06	29.988
2250.0	62.295	-3.50674E+05	414.70	-1.28376E+06	29.802
2300.0	62.297	-3.47560E+05	416.07	-1.30453E+06	29.626
2350.0	62.300	-3.44445E+05	417.41	-1.32537E+06	29.459
2400.0	62.303	-3.41330E+05	418.72	-1.34627E+06	29.300
2450.0	62.305	-3.38214E+05	420.01	-1.36724E+06	29.149
2500.0	62.307	-3.35099E+05	421.27	-1.38827E+06	29.006
2550.0	62.309	-3.31984E+05	422.50	-1.40936E+06	28.869
2600.0	62.311	-3.28868E+05	423.71	-1.43052E+06	28.739
2650.0	62.313	-3.25753E+05	424.90	-1.45173E+06	28.615
2700.0	62.315	-3.22637E+05	426.06	-1.47301E+06	28.496
2750.0	62.316	-3.19521E+05	427.21	-1.49434E+06	28.383
2800.0	62.318	-3.16405E+05	428.33	-1.51573E+06	28.276
2850.0	62.319	-3.13289E+05	429.43	-1.53717E+06	28.173
2900.0	62.321	-3.10173E+05	430.52	-1.55867E+06	28.074
2950.0	62.322	-3.07057E+05	431.58	-1.58022E+06	27.980
3000.0	62.323	-3.03941E+05	432.63	-1.60183E+06	27.890

CaBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.361	-24868.	253.12	-1.00336E+05	17.578
300.00	36.378	-24801.	253.35	-1.00805E+05	17.551
350.00	36.759	-22972.	258.99	-1.13617E+05	16.956
400.00	37.008	-21127.	263.91	-1.26692E+05	16.544
450.00	37.182	-19272.	268.28	-1.39998E+05	16.250
500.00	37.309	-17410.	272.21	-1.53512E+05	16.037
550.00	37.407	-15542.	275.77	-1.67213E+05	15.880
600.00	37.486	-13669.	279.02	-1.81084E+05	15.764
650.00	37.551	-11793.	282.03	-1.95111E+05	15.679
700.00	37.608	-9914.2	284.81	-2.09283E+05	15.616
750.00	37.658	-8032.5	287.41	-2.23589E+05	15.572
800.00	37.704	-6148.5	289.84	-2.38021E+05	15.541
850.00	37.747	-4262.2	292.13	-2.52571E+05	15.521
900.00	37.788	-2373.8	294.29	-2.67232E+05	15.509
950.00	37.829	-483.36	296.33	-2.81998E+05	15.505
1000.0	37.869	1409.1	298.27	-2.96863E+05	15.506
1050.0	37.909	3303.5	300.12	-3.11823E+05	15.512
1100.0	37.949	5200.0	301.89	-3.26874E+05	15.522
1150.0	37.990	7098.4	303.57	-3.42010E+05	15.534
1200.0	38.032	8999.0	305.19	-3.57230E+05	15.549
1250.0	38.074	10902.	306.74	-3.72528E+05	15.567
1300.0	38.118	12806.	308.24	-3.87903E+05	15.586
1350.0	38.164	14713.	309.68	-4.03351E+05	15.606
1400.0	38.210	16623.	311.07	-4.18870E+05	15.628
1450.0	38.258	18535.	312.41	-4.34457E+05	15.650
1500.0	38.308	20449.	313.71	-4.50110E+05	15.674
1550.0	38.359	22365.	314.96	-4.65827E+05	15.698
1600.0	38.411	24285.	316.18	-4.81606E+05	15.722
1650.0	38.465	26206.	317.36	-4.97445E+05	15.747
1700.0	38.521	28131.	318.51	-5.13342E+05	15.773
1750.0	38.579	30059.	319.63	-5.29296E+05	15.798
1800.0	38.638	31989.	320.72	-5.45304E+05	15.824
1850.0	38.700	33922.	321.78	-5.61367E+05	15.850
1900.0	38.763	35859.	322.81	-5.77482E+05	15.876
1950.0	38.827	37799.	323.82	-5.93648E+05	15.902
2000.0	38.894	39742.	324.80	-6.09863E+05	15.928
2050.0	38.962	41688.	325.76	-6.26128E+05	15.954
2100.0	39.032	43638.	326.70	-6.42439E+05	15.979
2150.0	39.104	45591.	327.62	-6.58798E+05	16.005
2200.0	39.178	47549.	328.52	-6.75201E+05	16.031
2250.0	39.254	49509.	329.40	-6.91649E+05	16.057
2300.0	39.332	51474.	330.27	-7.08141E+05	16.082
2350.0	39.411	53443.	331.11	-7.24676E+05	16.107
2400.0	39.492	55415.	331.94	-7.41252E+05	16.133
2450.0	39.576	57392.	332.76	-7.57870E+05	16.158
2500.0	39.661	59373.	333.56	-7.74528E+05	16.182
2550.0	39.748	61358.	334.35	-7.91226E+05	16.207
2600.0	39.837	63348.	335.12	-8.07963E+05	16.232
2650.0	39.928	65342.	335.88	-8.24738E+05	16.256
2700.0	40.023	67340.	336.63	-8.41550E+05	16.280
2750.0	40.115	69344.	337.36	-8.58400E+05	16.304
2800.0	40.219	71352.	338.09	-8.75286E+05	16.328
2850.0	40.332	73366.	338.80	-8.92208E+05	16.352
2900.0	40.455	75385.	339.50	-9.09166E+05	16.375
2950.0	40.585	77411.	340.19	-9.26158E+05	16.399
3000.0	40.723	79444.	340.88	-9.43185E+05	16.422

CaBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.273	-3.87197E+05	310.13	-4.79662E+05	84.033
300.00	60.298	-3.87085E+05	310.50	-4.80236E+05	83.614
350.00	60.836	-3.84056E+05	319.84	-4.96000E+05	74.022
400.00	61.185	-3.81005E+05	327.99	-5.12200E+05	66.885
450.00	61.425	-3.77939E+05	335.21	-5.28783E+05	61.378
500.00	61.597	-3.74864E+05	341.69	-5.45708E+05	57.008
550.00	61.724	-3.71780E+05	347.57	-5.62942E+05	53.462
600.00	61.822	-3.68692E+05	352.94	-5.80457E+05	50.532
650.00	61.897	-3.65599E+05	357.89	-5.98229E+05	48.073
700.00	61.958	-3.62502E+05	362.48	-6.16240E+05	45.983
750.00	62.006	-3.59403E+05	366.76	-6.34472E+05	44.187
800.00	62.047	-3.56302E+05	370.76	-6.52911E+05	42.630
850.00	62.080	-3.53199E+05	374.52	-6.71545E+05	41.267
900.00	62.108	-3.50094E+05	378.07	-6.90360E+05	40.066
950.00	62.132	-3.46988E+05	381.43	-7.09349E+05	39.002
1000.0	62.152	-3.43881E+05	384.62	-7.28501E+05	38.052
1050.0	62.170	-3.40773E+05	387.65	-7.47808E+05	37.200
1100.0	62.186	-3.37664E+05	390.55	-7.67264E+05	36.433
1150.0	62.199	-3.34554E+05	393.31	-7.86861E+05	35.739
1200.0	62.211	-3.31444E+05	395.96	-8.06593E+05	35.109
1250.0	62.222	-3.28333E+05	398.50	-8.26455E+05	34.535
1300.0	62.231	-3.25222E+05	400.94	-8.46441E+05	34.010
1350.0	62.240	-3.22110E+05	403.29	-8.66547E+05	33.528
1400.0	62.248	-3.18998E+05	405.55	-8.86768E+05	33.085
1450.0	62.255	-3.15885E+05	407.73	-9.07101E+05	32.676
1500.0	62.261	-3.12772E+05	409.85	-9.27540E+05	32.299
1550.0	62.267	-3.09659E+05	411.89	-9.48084E+05	31.949
1600.0	62.272	-3.06545E+05	413.86	-9.68728E+05	31.625
1650.0	62.277	-3.03432E+05	415.78	-9.89469E+05	31.323
1700.0	62.282	-3.00318E+05	417.64	-1.01031E+06	31.042
1750.0	62.286	-2.97204E+05	419.45	-1.03123E+06	30.780
1800.0	62.290	-2.94089E+05	421.20	-1.05225E+06	30.535
1850.0	62.293	-2.90975E+05	422.91	-1.07335E+06	30.305
1900.0	62.297	-2.87860E+05	424.57	-1.09454E+06	30.090
1950.0	62.300	-2.84745E+05	426.19	-1.11581E+06	29.888
2000.0	62.303	-2.81630E+05	427.76	-1.13716E+06	29.699
2050.0	62.305	-2.78515E+05	429.30	-1.15858E+06	29.520
2100.0	62.308	-2.75399E+05	430.80	-1.18009E+06	29.352
2150.0	62.310	-2.72284E+05	432.27	-1.20166E+06	29.194
2200.0	62.313	-2.69168E+05	433.70	-1.22331E+06	29.044
2250.0	62.315	-2.66053E+05	435.10	-1.24503E+06	28.903
2300.0	62.317	-2.62937E+05	436.47	-1.26682E+06	28.770
2350.0	62.319	-2.59821E+05	437.81	-1.28868E+06	28.643
2400.0	62.321	-2.56705E+05	439.12	-1.31060E+06	28.524
2450.0	62.322	-2.53589E+05	440.41	-1.33259E+06	28.410
2500.0	62.324	-2.50473E+05	441.67	-1.35464E+06	28.303
2550.0	62.326	-2.47356E+05	442.90	-1.37676E+06	28.201
2600.0	62.327	-2.44240E+05	444.11	-1.39893E+06	28.104
2650.0	62.329	-2.41124E+05	445.30	-1.42117E+06	28.012
2700.0	62.330	-2.38007E+05	446.47	-1.44346E+06	27.925
2750.0	62.331	-2.34891E+05	447.61	-1.46581E+06	27.842
2800.0	62.332	-2.31774E+05	448.73	-1.48822E+06	27.762
2850.0	62.333	-2.28658E+05	449.84	-1.51069E+06	27.687
2900.0	62.335	-2.25541E+05	450.92	-1.53321E+06	27.615
2950.0	62.336	-2.22424E+05	451.98	-1.55578E+06	27.547
3000.0	62.337	-2.19307E+05	453.03	-1.57840E+06	27.482

CaI<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.644	-5045.9	261.30	-82952.	14.533
300.00	36.656	-4978.1	261.53	-83436.	14.527
350.00	36.908	-3138.5	267.20	-96658.	14.425
400.00	37.072	-1288.8	272.14	-1.10144E+05	14.383
450.00	37.187	567.89	276.51	-1.23862E+05	14.377
500.00	37.272	2429.5	280.43	-1.37787E+05	14.394
550.00	37.336	4294.7	283.99	-1.51899E+05	14.426
600.00	37.387	6162.9	287.24	-1.66181E+05	14.467
650.00	37.429	8033.3	290.23	-1.80619E+05	14.514
700.00	37.465	9905.7	293.01	-1.95201E+05	14.566
750.00	37.496	11780.	295.60	-2.09917E+05	14.620
800.00	37.523	13655.	298.02	-2.24758E+05	14.675
850.00	37.548	15532.	300.29	-2.39716E+05	14.731
900.00	37.572	17410.	302.44	-2.54785E+05	14.787
950.00	37.594	19289.	304.47	-2.69958E+05	14.843
1000.0	37.615	21169.	306.40	-2.85230E+05	14.899
1050.0	37.636	23051.	308.24	-3.00596E+05	14.953
1100.0	37.657	24933.	309.99	-3.16052E+05	15.008
1150.0	37.677	26816.	311.66	-3.31594E+05	15.061
1200.0	37.697	28701.	313.26	-3.47217E+05	15.114
1250.0	37.717	30586.	314.80	-3.62919E+05	15.165
1300.0	37.738	32472.	316.28	-3.78697E+05	15.216
1350.0	37.758	34360.	317.71	-3.94547E+05	15.266
1400.0	37.779	36248.	319.08	-4.10467E+05	15.314
1450.0	37.801	38138.	320.41	-4.26454E+05	15.362
1500.0	37.823	40028.	321.69	-4.42507E+05	15.409
1550.0	37.845	41920.	322.93	-4.58622E+05	15.455
1600.0	37.868	43813.	324.13	-4.74799E+05	15.500
1650.0	37.891	45707.	325.30	-4.91035E+05	15.544
1700.0	37.914	47602.	326.43	-5.07328E+05	15.588
1750.0	37.939	49498.	327.53	-5.23677E+05	15.631
1800.0	37.964	51396.	328.60	-5.40081E+05	15.672
1850.0	37.989	53295.	329.64	-5.56537E+05	15.713
1900.0	38.015	55195.	330.65	-5.73044E+05	15.754
1950.0	38.041	57096.	331.64	-5.89602E+05	15.793
2000.0	38.069	58999.	332.60	-6.06208E+05	15.832
2050.0	38.096	60903.	333.54	-6.22862E+05	15.870
2100.0	38.125	62809.	334.46	-6.39562E+05	15.908
2150.0	38.154	64716.	335.36	-6.56307E+05	15.945
2200.0	38.184	66624.	336.24	-6.73097E+05	15.981
2250.0	38.214	68534.	337.10	-6.89931E+05	16.017
2300.0	38.245	70445.	337.94	-7.06807E+05	16.052
2350.0	38.276	72358.	338.76	-7.23724E+05	16.086
2400.0	38.309	74273.	339.56	-7.40682E+05	16.120
2450.0	38.350	76189.	340.35	-7.57680E+05	16.154
2500.0	38.397	78108.	341.13	-7.74717E+05	16.186
2550.0	38.448	80029.	341.89	-7.91793E+05	16.219
2600.0	38.504	81953.	342.64	-8.08906E+05	16.251
2650.0	38.565	83880.	343.37	-8.26057E+05	16.282
2700.0	38.631	85810.	344.09	-8.43243E+05	16.313
2750.0	38.700	87743.	344.80	-8.60466E+05	16.344
2800.0	38.774	89680.	345.50	-8.77723E+05	16.374
2850.0	38.852	91620.	346.19	-8.95016E+05	16.403
2900.0	38.934	93565.	346.86	-9.12342E+05	16.433
2950.0	39.020	95514.	347.53	-9.29702E+05	16.461
3000.0	39.110	97467.	348.19	-9.47095E+05	16.490

CaI2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.636	-2.58153E+05	327.56	-3.55815E+05	62.336
300.00	60.657	-2.58041E+05	327.94	-3.56422E+05	62.057
350.00	61.101	-2.54996E+05	337.32	-3.73059E+05	55.675
400.00	61.390	-2.51933E+05	345.50	-3.90134E+05	50.945
450.00	61.588	-2.48858E+05	352.75	-4.07594E+05	47.311
500.00	61.729	-2.45775E+05	359.24	-4.25396E+05	44.440
550.00	61.835	-2.42686E+05	365.13	-4.43508E+05	42.120
600.00	61.915	-2.39592E+05	370.51	-4.61901E+05	40.211
650.00	61.977	-2.36495E+05	375.47	-4.80552E+05	38.617
700.00	62.027	-2.33395E+05	380.07	-4.99442E+05	37.268
750.00	62.067	-2.30292E+05	384.35	-5.18554E+05	36.114
800.00	62.100	-2.27188E+05	388.36	-5.37872E+05	35.119
850.00	62.127	-2.24082E+05	392.12	-5.57385E+05	34.252
900.00	62.151	-2.20975E+05	395.67	-5.77081E+05	33.492
950.00	62.170	-2.17867E+05	399.03	-5.96949E+05	32.822
1000.0	62.187	-2.14758E+05	402.22	-6.16981E+05	32.227
1050.0	62.202	-2.11649E+05	405.26	-6.37169E+05	31.697
1100.0	62.214	-2.08538E+05	408.15	-6.57505E+05	31.222
1150.0	62.225	-2.05427E+05	410.92	-6.77982E+05	30.794
1200.0	62.235	-2.02316E+05	413.57	-6.98594E+05	30.408
1250.0	62.244	-1.99204E+05	416.11	-7.19337E+05	30.059
1300.0	62.252	-1.96091E+05	418.55	-7.40203E+05	29.741
1350.0	62.259	-1.92979E+05	420.90	-7.61190E+05	29.451
1400.0	62.265	-1.89866E+05	423.16	-7.82292E+05	29.187
1450.0	62.271	-1.86752E+05	425.35	-8.03505E+05	28.945
1500.0	62.276	-1.83638E+05	427.46	-8.24825E+05	28.722
1550.0	62.281	-1.80525E+05	429.50	-8.46249E+05	28.518
1600.0	62.285	-1.77410E+05	431.48	-8.67774E+05	28.329
1650.0	62.289	-1.74296E+05	433.39	-8.89396E+05	28.155
1700.0	62.293	-1.71181E+05	435.25	-9.11113E+05	27.994
1750.0	62.296	-1.68067E+05	437.06	-9.32921E+05	27.845
1800.0	62.300	-1.64952E+05	438.81	-9.54818E+05	27.707
1850.0	62.302	-1.61837E+05	440.52	-9.76801E+05	27.579
1900.0	62.305	-1.58722E+05	442.18	-9.98869E+05	27.460
1950.0	62.308	-1.55606E+05	443.80	-1.02102E+06	27.349
2000.0	62.310	-1.52491E+05	445.38	-1.04325E+06	27.246
2050.0	62.312	-1.49375E+05	446.92	-1.06556E+06	27.150
2100.0	62.315	-1.46260E+05	448.42	-1.08794E+06	27.060
2150.0	62.316	-1.43144E+05	449.89	-1.11040E+06	26.977
2200.0	62.318	-1.40028E+05	451.32	-1.13293E+06	26.898
2250.0	62.320	-1.36912E+05	452.72	-1.15553E+06	26.825
2300.0	62.322	-1.33796E+05	454.09	-1.17820E+06	26.757
2350.0	62.323	-1.30680E+05	455.43	-1.20094E+06	26.693
2400.0	62.325	-1.27564E+05	456.74	-1.22374E+06	26.633
2450.0	62.326	-1.24447E+05	458.03	-1.24661E+06	26.577
2500.0	62.328	-1.21331E+05	459.28	-1.26954E+06	26.525
2550.0	62.329	-1.18215E+05	460.52	-1.29254E+06	26.476
2600.0	62.330	-1.15098E+05	461.73	-1.31559E+06	26.430
2650.0	62.331	-1.11982E+05	462.92	-1.33871E+06	26.387
2700.0	62.333	-1.08865E+05	464.08	-1.36189E+06	26.347
2750.0	62.334	-1.05748E+05	465.23	-1.38512E+06	26.309
2800.0	62.335	-1.02632E+05	466.35	-1.40841E+06	26.274
2850.0	62.336	-99515.	467.45	-1.43175E+06	26.240
2900.0	62.337	-96398.	468.54	-1.45515E+06	26.209
2950.0	62.337	-93281.	469.60	-1.47861E+06	26.181
3000.0	62.338	-90164.	470.65	-1.50211E+06	26.153

CaO

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	42.064	-6.34920E+05	38.100	-6.46280E+05	113.22
300.00	42.210	-6.34842E+05	38.361	-6.46350E+05	112.54
350.00	45.237	-6.32650E+05	45.114	-6.48440E+05	96.772
400.00	47.100	-6.30338E+05	51.286	-6.50852E+05	84.990
450.00	48.297	-6.27950E+05	56.908	-6.53559E+05	75.861
500.00	49.091	-6.25514E+05	62.040	-6.56535E+05	68.586
550.00	49.631	-6.23046E+05	66.746	-6.59756E+05	62.657
600.00	50.006	-6.20554E+05	71.082	-6.63203E+05	57.735
650.00	50.273	-6.18047E+05	75.095	-6.66859E+05	53.588
700.00	50.469	-6.15528E+05	78.829	-6.70708E+05	50.048
750.00	50.620	-6.13000E+05	82.316	-6.74737E+05	46.992
800.00	50.741	-6.10466E+05	85.587	-6.78936E+05	44.329
850.00	50.847	-6.07927E+05	88.666	-6.83293E+05	41.989
900.00	50.947	-6.05382E+05	91.575	-6.87800E+05	39.918
950.00	51.046	-6.02832E+05	94.333	-6.92448E+05	38.072
1000.0	51.151	-6.00277E+05	96.954	-6.97231E+05	36.419
1050.0	51.265	-5.97717E+05	99.452	-7.02141E+05	34.929
1100.0	51.392	-5.95150E+05	101.84	-7.07174E+05	33.580
1150.0	51.533	-5.92577E+05	104.13	-7.12324E+05	32.354
1200.0	51.691	-5.89997E+05	106.32	-7.17585E+05	31.235
1250.0	51.867	-5.87408E+05	108.44	-7.22955E+05	30.210
1300.0	52.063	-5.84810E+05	110.48	-7.28428E+05	29.268
1350.0	52.280	-5.82201E+05	112.44	-7.34001E+05	28.399
1400.0	52.519	-5.79581E+05	114.35	-7.39671E+05	27.597
1450.0	52.710	-5.76951E+05	116.20	-7.45435E+05	26.853
1500.0	52.932	-5.74310E+05	117.99	-7.51290E+05	26.162
1550.0	53.180	-5.71657E+05	119.73	-7.57233E+05	25.518
1600.0	53.448	-5.68992E+05	121.42	-7.63262E+05	24.917
1650.0	53.732	-5.66312E+05	123.07	-7.69374E+05	24.356
1700.0	54.029	-5.63618E+05	124.68	-7.75568E+05	23.830
1750.0	54.335	-5.60909E+05	126.25	-7.81841E+05	23.336
1800.0	54.648	-5.58185E+05	127.78	-7.88192E+05	22.872
1850.0	54.965	-5.55444E+05	129.28	-7.94619E+05	22.435
1900.0	55.284	-5.52688E+05	130.75	-8.01120E+05	22.024
1950.0	55.604	-5.49916E+05	132.19	-8.07693E+05	21.635
2000.0	55.922	-5.47128E+05	133.61	-8.14338E+05	21.268
2050.0	56.238	-5.44324E+05	134.99	-8.21053E+05	20.920
2100.0	56.549	-5.41504E+05	136.35	-8.27837E+05	20.591
2150.0	56.856	-5.38669E+05	137.68	-8.34688E+05	20.278
2200.0	57.158	-5.35818E+05	138.99	-8.41605E+05	19.982
2250.0	57.452	-5.32953E+05	140.28	-8.48587E+05	19.700
2300.0	57.739	-5.30073E+05	141.55	-8.55633E+05	19.432
2350.0	58.018	-5.27179E+05	142.79	-8.62741E+05	19.176
2400.0	58.288	-5.24272E+05	144.02	-8.69912E+05	18.933
2450.0	58.549	-5.21351E+05	145.22	-8.77143E+05	18.700
2500.0	58.800	-5.18417E+05	146.41	-8.84433E+05	18.479
2550.0	59.041	-5.15471E+05	147.57	-8.91783E+05	18.267
2600.0	59.271	-5.12513E+05	148.72	-8.99191E+05	18.065
2650.0	59.490	-5.09544E+05	149.85	-9.06655E+05	17.871
2700.0	59.697	-5.06564E+05	150.97	-9.14176E+05	17.685
2750.0	59.893	-5.03575E+05	152.06	-9.21751E+05	17.508
2800.0	60.078	-5.00575E+05	153.15	-9.29382E+05	17.337
2850.0	60.249	-4.97567E+05	154.21	-9.37066E+05	17.174
2900.0	60.409	-4.94550E+05	155.26	-9.44802E+05	17.017
2950.0	60.523	-4.91527E+05	156.29	-9.52591E+05	16.867
3000.0	60.613	-4.88499E+05	157.31	-9.60431E+05	16.722

CaO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.843	-6.52704E+05	83.680	-6.77653E+05	118.72
300.00	82.843	-6.52551E+05	84.192	-6.77809E+05	118.01
350.00	82.843	-6.48409E+05	96.963	-6.82346E+05	101.83
400.00	82.843	-6.44266E+05	108.02	-6.87476E+05	89.773

Ca(OH)2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	87.488	-9.85900E+05	83.400	-1.01077E+06	177.08
300.00	87.692	-9.85738E+05	83.942	-1.01092E+06	176.01
350.00	92.400	-9.81230E+05	97.831	-1.01547E+06	151.55
400.00	96.037	-9.76516E+05	110.42	-1.02068E+06	133.28
450.00	99.051	-9.71636E+05	121.91	-1.02649E+06	119.15
500.00	101.68	-9.66617E+05	132.48	-1.03286E+06	107.90
550.00	104.05	-9.61473E+05	142.28	-1.03973E+06	98.743
600.00	106.25	-9.56214E+05	151.43	-1.04707E+06	91.154
650.00	108.34	-9.50849E+05	160.02	-1.05486E+06	84.768
700.00	110.33	-9.45382E+05	168.12	-1.06307E+06	79.325
750.00	112.26	-9.39817E+05	175.80	-1.07167E+06	74.636
800.00	114.14	-9.34157E+05	183.11	-1.08064E+06	70.557
850.00	115.98	-9.28405E+05	190.08	-1.08997E+06	66.980
900.00	117.79	-9.22560E+05	196.76	-1.09965E+06	63.820
950.00	119.57	-9.16626E+05	203.18	-1.10965E+06	61.011
1000.0	121.34	-9.10603E+05	209.36	-1.11996E+06	58.499
1023.0	122.15	-9.07803E+05	212.12	-1.12481E+06	57.432
1023.0	153.00	-8.78803E+05	240.47	-1.12481E+06	57.431
1050.0	153.00	-8.74672E+05	244.46	-1.13135E+06	56.280
1100.0	153.00	-8.67022E+05	251.58	-1.14376E+06	54.311
1150.0	153.00	-8.59372E+05	258.38	-1.15651E+06	52.529
1200.0	153.00	-8.51722E+05	264.89	-1.16959E+06	50.910
1250.0	153.00	-8.44072E+05	271.13	-1.18299E+06	49.433
1300.0	153.00	-8.36422E+05	277.14	-1.19670E+06	48.083
1350.0	153.00	-8.28772E+05	282.91	-1.21070E+06	46.844
1400.0	153.00	-8.21122E+05	288.47	-1.22499E+06	45.704
1450.0	153.00	-8.13472E+05	293.84	-1.23954E+06	44.652
1500.0	153.00	-8.05822E+05	299.03	-1.25437E+06	43.680

CaS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.805	1.21486E+05	232.61	52132.	-9.1332
300.00	34.836	1.21550E+05	232.83	51702.	-9.0019
350.00	35.506	1.23310E+05	238.25	39922.	-5.9579
400.00	35.947	1.25097E+05	243.02	27887.	-3.6416
450.00	36.258	1.26903E+05	247.28	15628.	-1.8140
500.00	36.492	1.28722E+05	251.11	3166.8	-0.33082
550.00	36.677	1.30551E+05	254.60	-9477.2	0.90005
600.00	36.832	1.32389E+05	257.80	-22288.	1.9403
650.00	36.968	1.34234E+05	260.75	-35253.	2.8329
700.00	37.091	1.36086E+05	263.49	-48360.	3.6085
750.00	37.207	1.37943E+05	266.06	-61599.	4.2900
800.00	37.320	1.39806E+05	268.46	-74963.	4.8944
850.00	37.432	1.41675E+05	270.73	-88443.	5.4349
900.00	37.543	1.43549E+05	272.87	-1.02033E+05	5.9217
950.00	37.647	1.45429E+05	274.90	-1.15728E+05	6.3630
1000.0	37.794	1.47315E+05	276.84	-1.29522E+05	6.7653
1050.0	37.984	1.49209E+05	278.68	-1.43410E+05	7.1341
1100.0	38.215	1.51114E+05	280.46	-1.57389E+05	7.4736
1150.0	38.488	1.53031E+05	282.16	-1.71455E+05	7.7875
1200.0	38.802	1.54963E+05	283.81	-1.85604E+05	8.0789
1250.0	39.156	1.56912E+05	285.40	-1.99834E+05	8.3504
1300.0	39.551	1.58880E+05	286.94	-2.14143E+05	8.6042
1350.0	39.986	1.60868E+05	288.44	-2.28528E+05	8.8420
1400.0	40.462	1.62879E+05	289.90	-2.42987E+05	9.0657
1450.0	40.977	1.64915E+05	291.33	-2.57518E+05	9.2766
1500.0	41.533	1.66977E+05	292.73	-2.72119E+05	9.4758
1550.0	42.128	1.69069E+05	294.10	-2.86790E+05	9.6645
1600.0	42.764	1.71191E+05	295.45	-3.01529E+05	9.8437
1650.0	43.429	1.73346E+05	296.78	-3.16335E+05	10.014
1700.0	44.115	1.75534E+05	298.08	-3.31206E+05	10.176
1750.0	44.816	1.77757E+05	299.37	-3.46143E+05	10.332
1800.0	45.523	1.80016E+05	300.64	-3.61143E+05	10.480
1850.0	46.232	1.82310E+05	301.90	-3.76207E+05	10.622
1900.0	46.936	1.84639E+05	303.14	-3.91333E+05	10.758
1950.0	47.631	1.87003E+05	304.37	-4.06521E+05	10.889
2000.0	48.313	1.89402E+05	305.59	-4.21770E+05	11.015
2050.0	48.980	1.91834E+05	306.79	-4.37079E+05	11.137
2100.0	49.626	1.94299E+05	307.98	-4.52449E+05	11.254
2150.0	50.250	1.96796E+05	309.15	-4.67877E+05	11.367
2200.0	50.850	1.99324E+05	310.31	-4.83363E+05	11.476
2250.0	51.423	2.01881E+05	311.46	-4.98908E+05	11.582
2300.0	51.967	2.04466E+05	312.60	-5.14509E+05	11.685
2350.0	52.480	2.07077E+05	313.72	-5.30167E+05	11.784
2400.0	52.962	2.09713E+05	314.83	-5.45881E+05	11.880
2450.0	53.410	2.12373E+05	315.93	-5.61650E+05	11.974
2500.0	53.823	2.15054E+05	317.01	-5.77474E+05	12.065
2550.0	54.200	2.17754E+05	318.08	-5.93351E+05	12.154
2600.0	54.541	2.20473E+05	319.14	-6.09282E+05	12.240
2650.0	54.844	2.23208E+05	320.18	-6.25265E+05	12.324
2700.0	55.108	2.25957E+05	321.21	-6.41299E+05	12.406
2750.0	55.332	2.28718E+05	322.22	-6.57385E+05	12.486
2800.0	55.517	2.31489E+05	323.22	-6.73521E+05	12.564
2850.0	55.673	2.34269E+05	324.20	-6.89706E+05	12.641
2900.0	55.802	2.37056E+05	325.17	-7.05941E+05	12.715
2950.0	55.904	2.39849E+05	326.13	-7.22223E+05	12.788
3000.0	55.983	2.42646E+05	327.07	-7.38553E+05	12.859

CaSO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	91.456	-1.17152E+06	101.25	-1.20171E+06	210.53
300.00	91.546	-1.17135E+06	101.82	-1.20190E+06	209.26
350.00	93.973	-1.16671E+06	116.11	-1.20735E+06	180.18
400.00	96.399	-1.16195E+06	128.82	-1.21348E+06	158.46
450.00	98.826	-1.15707E+06	140.31	-1.22021E+06	141.64
500.00	101.25	-1.15207E+06	150.85	-1.22750E+06	128.23
550.00	103.68	-1.14695E+06	160.62	-1.23529E+06	117.31
600.00	106.11	-1.14170E+06	169.74	-1.24355E+06	108.26
650.00	108.53	-1.13634E+06	178.33	-1.25225E+06	100.63
700.00	110.96	-1.13085E+06	186.46	-1.26137E+06	94.122
750.00	113.39	-1.12524E+06	194.20	-1.27089E+06	88.511
800.00	115.81	-1.11951E+06	201.60	-1.28079E+06	83.625
850.00	118.24	-1.11366E+06	208.69	-1.29105E+06	79.336
900.00	120.67	-1.10769E+06	215.52	-1.30165E+06	75.544
950.00	123.09	-1.10159E+06	222.11	-1.31259E+06	72.170
1000.0	125.52	-1.09538E+06	228.48	-1.32386E+06	69.150

CaSO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	99.382	-1.43762E+06	106.69	-1.46943E+06	257.43
300.00	99.802	-1.43744E+06	107.31	-1.46963E+06	255.88
350.00	109.17	-1.43220E+06	123.44	-1.47540E+06	220.19
400.00	115.94	-1.42656E+06	138.48	-1.48196E+06	193.52
450.00	121.20	-1.42063E+06	152.45	-1.48923E+06	172.86
500.00	125.52	-1.41446E+06	165.45	-1.49719E+06	156.41
550.00	129.23	-1.40809E+06	177.59	-1.50576E+06	143.00
600.00	132.52	-1.40154E+06	188.98	-1.51493E+06	131.88
650.00	135.52	-1.39484E+06	199.71	-1.52465E+06	122.52
700.00	138.30	-1.38800E+06	209.85	-1.53489E+06	114.53
750.00	140.93	-1.38101E+06	219.49	-1.54563E+06	107.64
800.00	143.44	-1.37390E+06	228.66	-1.55683E+06	101.65
850.00	145.85	-1.36667E+06	237.43	-1.56849E+06	96.385
900.00	148.19	-1.35932E+06	245.83	-1.58057E+06	91.732
950.00	150.48	-1.35185E+06	253.91	-1.59307E+06	87.591
1000.0	152.72	-1.34427E+06	261.68	-1.60596E+06	83.884
1050.0	154.92	-1.33658E+06	269.19	-1.61923E+06	80.550
1100.0	157.08	-1.32878E+06	276.45	-1.63287E+06	77.537
1150.0	159.23	-1.32087E+06	283.48	-1.64687E+06	74.801
1200.0	161.35	-1.31286E+06	290.30	-1.66122E+06	72.309
1250.0	163.45	-1.30474E+06	296.93	-1.67590E+06	70.030
1300.0	165.54	-1.29651E+06	303.38	-1.69091E+06	67.940
1350.0	167.61	-1.28819E+06	309.66	-1.70623E+06	66.016
1400.0	169.68	-1.27975E+06	315.80	-1.72187E+06	64.242
1450.0	171.73	-1.27122E+06	321.79	-1.73781E+06	62.601
1473.0	172.67	-1.26726E+06	324.50	-1.74524E+06	61.887
1473.0	165.00	-1.26226E+06	327.89	-1.74524E+06	61.887
1500.0	165.00	-1.25780E+06	330.89	-1.75414E+06	61.083
1550.0	165.00	-1.24955E+06	336.30	-1.77082E+06	59.675
1600.0	165.00	-1.24130E+06	341.54	-1.78776E+06	58.363
1650.0	165.00	-1.23305E+06	346.61	-1.80497E+06	57.139
1700.0	165.00	-1.22480E+06	351.54	-1.82242E+06	55.995
1733.0	165.00	-1.21936E+06	354.71	-1.83407E+06	55.280
1733.0	165.00	-1.19396E+06	369.37	-1.83407E+06	55.280
1750.0	165.00	-1.19115E+06	370.98	-1.84037E+06	54.931
1800.0	165.00	-1.18290E+06	375.63	-1.85903E+06	53.946
1850.0	165.00	-1.17465E+06	380.15	-1.87793E+06	53.022
1900.0	165.00	-1.16640E+06	384.55	-1.89705E+06	52.152
1950.0	165.00	-1.15815E+06	388.84	-1.91638E+06	51.333
2000.0	165.00	-1.14990E+06	393.01	-1.93593E+06	50.560

Ca3N2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	113.79	-4.39320E+05	107.95	-4.71504E+05	82.604
300.00	114.19	-4.39109E+05	108.65	-4.71705E+05	82.129
350.00	122.72	-4.33172E+05	126.94	-4.77601E+05	71.276
400.00	128.53	-4.26882E+05	143.73	-4.84374E+05	63.251
450.00	132.75	-4.20345E+05	159.12	-4.91951E+05	57.103
500.00	136.00	-4.13623E+05	173.29	-5.00266E+05	52.261
550.00	138.60	-4.06756E+05	186.37	-5.09261E+05	48.364
600.00	140.76	-3.99770E+05	198.53	-5.18887E+05	45.172
650.00	142.62	-3.92685E+05	209.87	-5.29100E+05	42.518
700.00	144.25	-3.85512E+05	220.50	-5.39862E+05	40.284
750.00	145.72	-3.78263E+05	230.50	-5.51140E+05	38.384
800.00	147.06	-3.70943E+05	239.95	-5.62903E+05	36.753
850.00	148.30	-3.63559E+05	248.90	-5.75127E+05	35.342
900.00	149.47	-3.56114E+05	257.41	-5.87786E+05	34.113
950.00	150.57	-3.48613E+05	265.52	-6.00861E+05	33.037
1000.0	151.63	-3.41058E+05	273.28	-6.14333E+05	32.089
1050.0	152.65	-3.33451E+05	280.70	-6.28184E+05	31.250
1100.0	153.64	-3.25793E+05	287.82	-6.42398E+05	30.504
1150.0	154.60	-3.18087E+05	294.67	-6.56961E+05	29.839
1200.0	155.53	-3.10334E+05	301.27	-6.71861E+05	29.245
1250.0	156.45	-3.02534E+05	307.64	-6.87085E+05	28.711
1300.0	157.35	-2.94689E+05	313.79	-7.02621E+05	28.231
1350.0	158.24	-2.86799E+05	319.75	-7.18461E+05	27.798
1400.0	159.11	-2.78866E+05	325.52	-7.34593E+05	27.407
1450.0	159.98	-2.70888E+05	331.12	-7.51010E+05	27.054

Ca(NO3)2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	149.36	-9.36798E+05	193.22	-9.94405E+05	174.21
300.00	149.89	-9.36521E+05	194.14	-9.94764E+05	173.20
350.00	162.68	-9.28697E+05	218.24	-1.00508E+06	150.00
400.00	173.69	-9.20282E+05	240.70	-1.01656E+06	132.75
450.00	183.66	-9.11345E+05	261.74	-1.02913E+06	119.45
500.00	192.98	-9.01927E+05	281.57	-1.04271E+06	108.93
550.00	201.88	-8.92054E+05	300.39	-1.05727E+06	100.41
600.00	210.49	-8.81744E+05	318.32	-1.07274E+06	93.388
650.00	218.90	-8.71008E+05	335.50	-1.08909E+06	87.518
700.00	227.17	-8.59856E+05	352.03	-1.10628E+06	82.549
750.00	235.32	-8.48293E+05	367.98	-1.12428E+06	78.300
800.00	243.39	-8.36325E+05	383.43	-1.14307E+06	74.633

Ca3P2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	116.31	-5.06264E+05	123.85	-5.43189E+05	95.162
300.00	116.36	-5.06049E+05	124.57	-5.43418E+05	94.615
350.00	117.76	-5.00196E+05	142.61	-5.50109E+05	82.097
400.00	119.16	-4.94273E+05	158.42	-5.57642E+05	72.819
450.00	120.56	-4.88280E+05	172.54	-5.65923E+05	65.689
500.00	121.96	-4.82217E+05	185.31	-5.74874E+05	60.055
550.00	123.37	-4.76084E+05	197.00	-5.84436E+05	55.504
600.00	124.77	-4.69880E+05	207.80	-5.94559E+05	51.760
650.00	126.17	-4.63607E+05	217.84	-6.05203E+05	48.634
700.00	127.57	-4.57263E+05	227.24	-6.16333E+05	45.990
750.00	128.97	-4.50850E+05	236.09	-6.27918E+05	43.731
800.00	130.37	-4.44366E+05	244.46	-6.39934E+05	41.782
850.00	131.78	-4.37812E+05	252.41	-6.52357E+05	40.088
900.00	133.18	-4.31189E+05	259.98	-6.65168E+05	38.604
950.00	134.58	-4.24495E+05	267.22	-6.78349E+05	37.297
1000.0	135.98	-4.17731E+05	274.15	-6.91885E+05	36.139
1050.0	137.38	-4.10897E+05	280.82	-7.05760E+05	35.109
1100.0	138.78	-4.03993E+05	287.25	-7.19963E+05	34.187

CaHPO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	109.42	-1.81439E+06	111.38	-1.84760E+06	323.68
300.00	110.08	-1.81419E+06	112.06	-1.84781E+06	321.72
350.00	124.73	-1.80830E+06	130.20	-1.85386E+06	276.67
400.00	135.21	-1.80178E+06	147.57	-1.86081E+06	242.99
450.00	143.26	-1.79481E+06	163.98	-1.86861E+06	216.90
500.00	149.81	-1.78748E+06	179.42	-1.87719E+06	196.10
550.00	155.37	-1.77985E+06	193.97	-1.88653E+06	179.16
600.00	160.25	-1.77196E+06	207.70	-1.89658E+06	165.11
650.00	164.67	-1.76383E+06	220.70	-1.90729E+06	153.27
700.00	168.74	-1.75550E+06	233.06	-1.91864E+06	143.17
750.00	172.56	-1.74696E+06	244.83	-1.93059E+06	134.45
800.00	176.18	-1.73824E+06	256.09	-1.94311E+06	126.87
850.00	179.66	-1.72935E+06	266.87	-1.95619E+06	120.21
900.00	183.01	-1.72028E+06	277.24	-1.96979E+06	114.32
950.00	186.28	-1.71105E+06	287.22	-1.98390E+06	109.08
1000.0	189.47	-1.70165E+06	296.85	-1.99851E+06	104.39

CaC2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.417	-59413.	70.291	-80370.	14.080
300.00	62.559	-59297.	70.678	-80500.	14.016
350.00	65.706	-56086.	80.573	-84286.	12.579
400.00	67.958	-52741.	89.501	-88542.	11.562
450.00	69.688	-49298.	97.609	-93222.	10.821
500.00	71.095	-45778.	105.03	-98291.	10.268
550.00	72.290	-42193.	111.86	-1.03715E+05	9.8498
600.00	73.341	-38551.	118.20	-1.09469E+05	9.5299
650.00	74.291	-34860.	124.10	-1.15528E+05	9.2837
700.00	75.168	-31123.	129.64	-1.21873E+05	9.0940
720.00	75.502	-29617.	131.76	-1.24487E+05	9.0311
720.00	70.459	-24052.	139.49	-1.24487E+05	9.0311
750.00	70.710	-21934.	142.37	-1.28715E+05	8.9643
800.00	71.128	-18388.	146.95	-1.35950E+05	8.8764
850.00	71.546	-14822.	151.28	-1.43406E+05	8.8125
900.00	71.965	-11234.	155.38	-1.51074E+05	8.7679
950.00	72.383	-7625.1	159.28	-1.58941E+05	8.7390
1000.0	72.802	-3995.5	163.00	-1.66999E+05	8.7229
1050.0	73.220	-344.96	166.57	-1.75238E+05	8.7174
1100.0	73.638	3326.5	169.98	-1.83653E+05	8.7207
1150.0	74.057	7018.9	173.26	-1.92234E+05	8.7313
1200.0	74.475	10732.	176.42	-2.00977E+05	8.7481
1250.0	74.894	14466.	179.47	-2.09875E+05	8.7700
1300.0	75.312	18222.	182.42	-2.18922E+05	8.7962
1350.0	75.730	21998.	185.27	-2.28115E+05	8.8261
1400.0	76.149	25795.	188.03	-2.37448E+05	8.8591
1450.0	76.567	29612.	190.71	-2.46917E+05	8.8947
1500.0	76.986	33451.	193.31	-2.56518E+05	8.9325
1550.0	77.404	37311.	195.84	-2.66247E+05	8.9722
1600.0	77.822	41192.	198.31	-2.76101E+05	9.0135
1650.0	78.241	45093.	200.71	-2.86077E+05	9.0562
1700.0	78.659	49016.	203.05	-2.96171E+05	9.1000
1750.0	79.078	52959.	205.34	-3.06381E+05	9.1447
1800.0	79.496	56924.	207.57	-3.16704E+05	9.1903

CaCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	83.472	-1.20660E+06	91.710	-1.23394E+06	216.18
300.00	83.819	-1.20645E+06	92.227	-1.23411E+06	214.87
350.00	91.508	-1.20205E+06	105.76	-1.23907E+06	184.92
400.00	96.975	-1.19733E+06	118.36	-1.24467E+06	162.53
450.00	101.15	-1.19237E+06	130.03	-1.25089E+06	145.20
500.00	104.52	-1.18723E+06	140.87	-1.25766E+06	131.38
550.00	107.37	-1.18193E+06	150.97	-1.26496E+06	120.13
600.00	109.86	-1.17650E+06	160.42	-1.27275E+06	110.80
650.00	112.10	-1.17095E+06	169.30	-1.28099E+06	102.94
700.00	114.16	-1.16529E+06	177.69	-1.28967E+06	96.234
750.00	116.08	-1.15953E+06	185.63	-1.29876E+06	90.451
800.00	117.90	-1.15368E+06	193.18	-1.30823E+06	85.416
850.00	119.64	-1.14775E+06	200.38	-1.31807E+06	80.997
900.00	121.32	-1.14172E+06	207.26	-1.32826E+06	77.088
950.00	122.95	-1.13562E+06	213.87	-1.33879E+06	73.610
1000.0	124.53	-1.12943E+06	220.21	-1.34964E+06	70.496
1050.0	126.09	-1.12316E+06	226.33	-1.36081E+06	67.695
1100.0	127.62	-1.11682E+06	232.23	-1.37227E+06	65.162
1150.0	129.13	-1.11040E+06	237.94	-1.38403E+06	62.863
1200.0	130.62	-1.10391E+06	243.46	-1.39606E+06	60.767
1250.0	132.09	-1.09734E+06	248.82	-1.40837E+06	58.851
1300.0	133.55	-1.09070E+06	254.03	-1.42094E+06	57.093
1350.0	135.00	-1.08398E+06	259.10	-1.43377E+06	55.475
1400.0	136.44	-1.07720E+06	264.04	-1.44685E+06	53.981
1450.0	137.87	-1.07034E+06	268.85	-1.46017E+06	52.600
1500.0	139.30	-1.06341E+06	273.55	-1.47373E+06	51.319
1550.0	140.71	-1.05641E+06	278.14	-1.48753E+06	50.128
1600.0	142.13	-1.04934E+06	282.63	-1.50155E+06	49.019
1603.0	142.21	-1.04891E+06	282.89	-1.50239E+06	48.955
1603.0	160.00	-1.01291E+06	305.35	-1.50239E+06	48.955
1650.0	160.00	-1.00539E+06	309.98	-1.51685E+06	48.018
1700.0	160.00	-9.97393E+05	314.75	-1.53247E+06	47.086
1750.0	160.00	-9.89393E+05	319.39	-1.54833E+06	46.214
1800.0	160.00	-9.81393E+05	323.90	-1.56441E+06	45.397
1850.0	160.00	-9.73393E+05	328.28	-1.58071E+06	44.630
1900.0	160.00	-9.65393E+05	332.55	-1.59724E+06	43.910
1950.0	160.00	-9.57393E+05	336.71	-1.61397E+06	43.232
2000.0	160.00	-9.49393E+05	340.76	-1.63090E+06	42.594

Cd

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.942	0.00000E+00	51.800	-15444.	2.7057
300.00	25.963	48.013	51.961	-15540.	2.7057
350.00	26.550	1360.8	56.007	-18242.	2.7223
400.00	27.150	2703.2	59.591	-21133.	2.7596
450.00	27.760	4075.9	62.824	-24195.	2.8084
500.00	28.374	5479.3	65.780	-27411.	2.8635
550.00	28.992	6913.4	68.514	-30769.	2.9221
594.22	29.540	8207.5	70.777	-33849.	2.9754
594.22	29.706	14400.	81.197	-33849.	2.9754
600.00	29.706	14572.	81.485	-34319.	2.9877
650.00	29.706	16057.	83.863	-38454.	3.0901
700.00	29.706	17542.	86.064	-42703.	3.1864
750.00	29.706	19027.	88.114	-47058.	3.2773
800.00	29.706	20513.	90.031	-51512.	3.3633
850.00	29.706	21998.	91.832	-56059.	3.4449
900.00	29.706	23483.	93.530	-60693.	3.5225
950.00	29.706	24969.	95.136	-65410.	3.5964
1000.0	29.706	26454.	96.660	-70206.	3.6671
1050.0	29.706	27939.	98.109	-75075.	3.7347
1100.0	29.706	29425.	99.491	-80016.	3.7995
1150.0	29.706	30910.	100.81	-85023.	3.8618
1200.0	29.706	32395.	102.08	-90096.	3.9217
1250.0	29.706	33881.	103.29	-95230.	3.9793
1300.0	29.706	35366.	104.45	-1.00424E+05	4.0350
1350.0	29.706	36851.	105.57	-1.05675E+05	4.0887
1400.0	29.706	38337.	106.66	-1.10981E+05	4.1406
1450.0	29.706	39822.	107.70	-1.16340E+05	4.1909
1500.0	29.706	41307.	108.70	-1.21750E+05	4.2396

Cd<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.773	1.11800E+05	167.75	61786.	-10.824
300.00	20.773	1.11838E+05	167.88	61476.	-10.704
350.00	20.792	1.12878E+05	171.08	53000.	-7.9096
400.00	20.802	1.13918E+05	173.86	44375.	-5.7946
450.00	20.808	1.14958E+05	176.31	35620.	-4.1345
500.00	20.810	1.15998E+05	178.50	26749.	-2.7943
550.00	20.811	1.17039E+05	180.48	17773.	-1.6879
600.00	20.810	1.18079E+05	182.29	8703.1	-0.75765
650.00	20.808	1.19120E+05	183.96	-453.75	3.6E-02
700.00	20.806	1.20160E+05	185.50	-9690.7	0.72311
750.00	20.804	1.21200E+05	186.94	-19002.	1.3234
800.00	20.801	1.22240E+05	188.28	-28383.	1.8532
850.00	20.799	1.23280E+05	189.54	-37829.	2.3246
900.00	20.796	1.24320E+05	190.73	-47336.	2.7472
950.00	20.793	1.25360E+05	191.85	-56900.	3.1285
1000.0	20.791	1.26400E+05	192.92	-66520.	3.4746
1050.0	20.788	1.27439E+05	193.93	-76192.	3.7902
1100.0	20.785	1.28478E+05	194.90	-85913.	4.0795
1150.0	20.783	1.29518E+05	195.82	-95681.	4.3459
1200.0	20.781	1.30557E+05	196.71	-1.05494E+05	4.5919
1250.0	20.778	1.31596E+05	197.56	-1.15351E+05	4.8201
1300.0	20.776	1.32635E+05	198.37	-1.25250E+05	5.0325
1350.0	20.774	1.33673E+05	199.16	-1.35188E+05	5.2306
1400.0	20.773	1.34712E+05	199.91	-1.45165E+05	5.4160
1450.0	20.771	1.35751E+05	200.64	-1.55179E+05	5.5900
1500.0	20.769	1.36789E+05	201.35	-1.65229E+05	5.7536
1550.0	20.768	1.37828E+05	202.03	-1.75313E+05	5.9079
1600.0	20.767	1.38866E+05	202.69	-1.85431E+05	6.0535
1650.0	20.766	1.39904E+05	203.32	-1.95581E+05	6.1914
1700.0	20.765	1.40943E+05	203.94	-2.05763E+05	6.3222
1750.0	20.765	1.41981E+05	204.55	-2.15975E+05	6.4463
1800.0	20.764	1.43019E+05	205.13	-2.26217E+05	6.5645
1850.0	20.764	1.44057E+05	205.70	-2.36488E+05	6.6771
1900.0	20.764	1.45095E+05	206.25	-2.46787E+05	6.7845
1950.0	20.764	1.46134E+05	206.79	-2.57113E+05	6.8871
2000.0	20.764	1.47172E+05	207.32	-2.67466E+05	6.9853
2050.0	20.765	1.48210E+05	207.83	-2.77845E+05	7.0794
2100.0	20.765	1.49248E+05	208.33	-2.88249E+05	7.1696
2150.0	20.766	1.50287E+05	208.82	-2.98678E+05	7.2563
2200.0	20.767	1.51325E+05	209.30	-3.09131E+05	7.3395
2250.0	20.768	1.52363E+05	209.76	-3.19608E+05	7.4196
2300.0	20.770	1.53402E+05	210.22	-3.30107E+05	7.4968
2350.0	20.771	1.54440E+05	210.67	-3.40630E+05	7.5712
2400.0	20.773	1.55479E+05	211.11	-3.51174E+05	7.6429
2450.0	20.775	1.56518E+05	211.53	-3.61740E+05	7.7122
2500.0	20.777	1.57556E+05	211.95	-3.72327E+05	7.7792
2550.0	20.779	1.58595E+05	212.36	-3.82935E+05	7.8439
2600.0	20.782	1.59634E+05	212.77	-3.93564E+05	7.9066
2650.0	20.784	1.60674E+05	213.16	-4.04212E+05	7.9673
2700.0	20.787	1.61713E+05	213.55	-4.14880E+05	8.0261
2750.0	20.790	1.62752E+05	213.93	-4.25567E+05	8.0832
2800.0	20.794	1.63792E+05	214.31	-4.36273E+05	8.1386
2850.0	20.797	1.64832E+05	214.68	-4.46998E+05	8.1923
2900.0	20.801	1.65872E+05	215.04	-4.57741E+05	8.2446
2950.0	20.804	1.66912E+05	215.39	-4.68502E+05	8.2954
3000.0	20.808	1.67952E+05	215.74	-4.79280E+05	8.3448

CdF2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.747	-3.93245E+05	264.94	-4.72238E+05	82.732
300.00	53.830	-3.93146E+05	265.28	-4.72729E+05	82.307
350.00	55.634	-3.90406E+05	273.72	-4.86208E+05	72.561
400.00	56.880	-3.87591E+05	281.23	-5.00085E+05	65.303
450.00	57.795	-3.84723E+05	287.99	-5.14318E+05	59.699
500.00	58.498	-3.81815E+05	294.12	-5.28874E+05	55.250
550.00	59.058	-3.78876E+05	299.72	-5.43721E+05	51.637
600.00	59.514	-3.75911E+05	304.88	-5.58838E+05	48.650
650.00	59.893	-3.72926E+05	309.66	-5.74203E+05	46.142
700.00	60.212	-3.69923E+05	314.11	-5.89798E+05	44.010
750.00	60.483	-3.66905E+05	318.27	-6.05609E+05	42.177
800.00	60.712	-3.63875E+05	322.18	-6.21621E+05	40.587
850.00	60.907	-3.60835E+05	325.87	-6.37823E+05	39.195
900.00	61.070	-3.57785E+05	329.36	-6.54205E+05	37.968
950.00	61.206	-3.54728E+05	332.66	-6.70756E+05	36.880
1000.0	61.317	-3.51665E+05	335.80	-6.87468E+05	35.909
1050.0	61.403	-3.48597E+05	338.80	-7.04334E+05	35.038
1100.0	61.467	-3.45525E+05	341.66	-7.21346E+05	34.253
1150.0	61.542	-3.42450E+05	344.39	-7.38497E+05	33.543
1200.0	61.607	-3.39371E+05	347.01	-7.55783E+05	32.898
1250.0	61.665	-3.36289E+05	349.53	-7.73196E+05	32.309
1300.0	61.716	-3.33205E+05	351.95	-7.90734E+05	31.771
1350.0	61.762	-3.30118E+05	354.28	-8.08389E+05	31.278
1400.0	61.803	-3.27028E+05	356.52	-8.26160E+05	30.824
1450.0	61.840	-3.23937E+05	358.69	-8.44040E+05	30.405
1500.0	61.873	-3.20844E+05	360.79	-8.62028E+05	30.018
1550.0	61.904	-3.17750E+05	362.82	-8.80118E+05	29.659
1600.0	61.931	-3.14654E+05	364.78	-8.98308E+05	29.326
1650.0	61.956	-3.11557E+05	366.69	-9.16596E+05	29.016
1700.0	61.979	-3.08459E+05	368.54	-9.34977E+05	28.728
1750.0	62.000	-3.05359E+05	370.34	-9.53449E+05	28.458
1800.0	62.019	-3.02259E+05	372.08	-9.72009E+05	28.206
1850.0	62.037	-2.99157E+05	373.78	-9.90656E+05	27.970
1900.0	62.053	-2.96055E+05	375.44	-1.00939E+06	27.749
1950.0	62.068	-2.92952E+05	377.05	-1.02820E+06	27.542
2000.0	62.082	-2.89848E+05	378.62	-1.04709E+06	27.347
2050.0	62.095	-2.86744E+05	380.15	-1.06606E+06	27.163
2100.0	62.107	-2.83639E+05	381.65	-1.08511E+06	26.990
2150.0	62.119	-2.80533E+05	383.11	-1.10423E+06	26.827
2200.0	62.129	-2.77427E+05	384.54	-1.12342E+06	26.673
2250.0	62.139	-2.74320E+05	385.94	-1.14268E+06	26.527
2300.0	62.148	-2.71213E+05	387.30	-1.16201E+06	26.389
2350.0	62.157	-2.68105E+05	388.64	-1.18141E+06	26.259
2400.0	62.165	-2.64997E+05	389.95	-1.20087E+06	26.136
2450.0	62.173	-2.61889E+05	391.23	-1.22040E+06	26.019
2500.0	62.180	-2.58780E+05	392.49	-1.24000E+06	25.908
2550.0	62.187	-2.55671E+05	393.72	-1.25965E+06	25.802
2600.0	62.194	-2.52561E+05	394.93	-1.27937E+06	25.702
2650.0	62.200	-2.49451E+05	396.11	-1.29914E+06	25.607
2700.0	62.205	-2.46341E+05	397.27	-1.31898E+06	25.517
2750.0	62.211	-2.43231E+05	398.41	-1.33887E+06	25.430
2800.0	62.216	-2.40120E+05	399.54	-1.35882E+06	25.348
2850.0	62.221	-2.37009E+05	400.64	-1.37882E+06	25.270
2900.0	62.226	-2.33898E+05	401.72	-1.39888E+06	25.196
2950.0	62.230	-2.30787E+05	402.78	-1.41900E+06	25.125
3000.0	62.234	-2.27675E+05	403.83	-1.43916E+06	25.057

CdCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	58.166	-1.94434E+05	286.09	-2.79731E+05	49.006
300.00	58.216	-1.94326E+05	286.45	-2.80260E+05	48.796
350.00	59.287	-1.91387E+05	295.51	-2.94814E+05	43.998
400.00	59.983	-1.88404E+05	303.47	-3.09793E+05	40.454
450.00	60.461	-1.85392E+05	310.57	-3.25147E+05	37.741
500.00	60.804	-1.82360E+05	316.96	-3.40838E+05	35.606
550.00	61.059	-1.79313E+05	322.76	-3.56833E+05	33.888
600.00	61.253	-1.76255E+05	328.09	-3.73106E+05	32.481
650.00	61.405	-1.73188E+05	332.99	-3.89635E+05	31.311
700.00	61.526	-1.70115E+05	337.55	-4.06400E+05	30.325
750.00	61.624	-1.67036E+05	341.80	-4.23385E+05	29.486
800.00	61.705	-1.63953E+05	345.78	-4.40575E+05	28.766
850.00	61.772	-1.60866E+05	349.52	-4.57959E+05	28.142
900.00	61.829	-1.57776E+05	353.05	-4.75524E+05	27.598
950.00	61.877	-1.54683E+05	356.40	-4.93261E+05	27.121
1000.0	61.919	-1.51588E+05	359.57	-5.11161E+05	26.700
1050.0	61.956	-1.48491E+05	362.59	-5.29215E+05	26.326
1100.0	61.987	-1.45393E+05	365.48	-5.47418E+05	25.994
1150.0	62.015	-1.42293E+05	368.23	-5.65761E+05	25.697
1200.0	62.040	-1.39191E+05	370.87	-5.84239E+05	25.431
1250.0	62.062	-1.36089E+05	373.41	-6.02847E+05	25.191
1300.0	62.082	-1.32985E+05	375.84	-6.21578E+05	24.975
1350.0	62.100	-1.29881E+05	378.18	-6.40429E+05	24.779
1400.0	62.117	-1.26775E+05	380.44	-6.59395E+05	24.602
1450.0	62.131	-1.23669E+05	382.62	-6.78472E+05	24.441
1500.0	62.145	-1.20562E+05	384.73	-6.97656E+05	24.294
1550.0	62.157	-1.17455E+05	386.77	-7.16944E+05	24.160
1600.0	62.169	-1.14346E+05	388.74	-7.36332E+05	24.038
1650.0	62.179	-1.11238E+05	390.65	-7.55817E+05	23.927
1700.0	62.189	-1.08128E+05	392.51	-7.75396E+05	23.824
1750.0	62.198	-1.05019E+05	394.31	-7.95067E+05	23.731
1800.0	62.207	-1.01909E+05	396.07	-8.14827E+05	23.645
1850.0	62.215	-98798.	397.77	-8.34673E+05	23.566
1900.0	62.222	-95687.	399.43	-8.54603E+05	23.494
1950.0	62.229	-92576.	401.05	-8.74615E+05	23.428
2000.0	62.236	-89464.	402.62	-8.94707E+05	23.367
2050.0	62.242	-86352.	404.16	-9.14877E+05	23.311
2100.0	62.248	-83240.	405.66	-9.35122E+05	23.259
2150.0	62.253	-80128.	407.12	-9.55442E+05	23.212
2200.0	62.258	-77015.	408.55	-9.75834E+05	23.169
2250.0	62.263	-73902.	409.95	-9.96297E+05	23.129
2300.0	62.268	-70788.	411.32	-1.01683E+06	23.092
2350.0	62.272	-67675.	412.66	-1.03743E+06	23.059
2400.0	62.276	-64561.	413.97	-1.05809E+06	23.028
2450.0	62.280	-61447.	415.26	-1.07883E+06	23.000
2500.0	62.284	-58333.	416.51	-1.09962E+06	22.975
2550.0	62.288	-55219.	417.75	-1.12048E+06	22.951
2600.0	62.291	-52104.	418.96	-1.14139E+06	22.930
2650.0	62.295	-48990.	420.14	-1.16237E+06	22.911
2700.0	62.298	-45875.	421.31	-1.18341E+06	22.894
2750.0	62.301	-42760.	422.45	-1.20450E+06	22.878
2800.0	62.304	-39645.	423.57	-1.22565E+06	22.864
2850.0	62.306	-36530.	424.68	-1.24686E+06	22.852
2900.0	62.309	-33414.	425.76	-1.26812E+06	22.841
2950.0	62.311	-30299.	426.83	-1.28943E+06	22.831
3000.0	62.314	-27183.	427.87	-1.31080E+06	22.823

CdBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.086	-1.39613E+05	309.73	-2.31960E+05	40.637
300.00	60.113	-1.39502E+05	310.10	-2.32533E+05	40.487
350.00	60.700	-1.36480E+05	319.42	-2.48277E+05	37.052
400.00	61.082	-1.33435E+05	327.55	-2.64456E+05	34.533
450.00	61.343	-1.30374E+05	334.76	-2.81017E+05	32.619
500.00	61.531	-1.27302E+05	341.23	-2.97919E+05	31.123
550.00	61.670	-1.24222E+05	347.11	-3.15130E+05	29.928
600.00	61.776	-1.21136E+05	352.48	-3.32622E+05	28.957
650.00	61.858	-1.18045E+05	357.42	-3.50371E+05	28.155
700.00	61.924	-1.14950E+05	362.01	-3.68358E+05	27.487
750.00	61.977	-1.11852E+05	366.29	-3.86567E+05	26.922
800.00	62.021	-1.08752E+05	370.29	-4.04982E+05	26.442
850.00	62.057	-1.05651E+05	374.05	-4.23591E+05	26.030
900.00	62.088	-1.02547E+05	377.60	-4.42383E+05	25.675
950.00	62.114	-99442.	380.95	-4.61348E+05	25.366
1000.0	62.136	-96336.	384.14	-4.80476E+05	25.097
1050.0	62.155	-93228.	387.17	-4.99759E+05	24.861
1100.0	62.172	-90120.	390.06	-5.19191E+05	24.654
1150.0	62.187	-87011.	392.83	-5.38764E+05	24.471
1200.0	62.200	-83901.	395.48	-5.58472E+05	24.309
1250.0	62.211	-80791.	398.01	-5.78309E+05	24.166
1300.0	62.222	-77680.	400.45	-5.98272E+05	24.038
1350.0	62.231	-74569.	402.80	-6.18353E+05	23.925
1400.0	62.239	-71457.	405.07	-6.38550E+05	23.824
1450.0	62.247	-68345.	407.25	-6.58859E+05	23.734
1500.0	62.254	-65233.	409.36	-6.79274E+05	23.654
1550.0	62.260	-62120.	411.40	-6.99794E+05	23.582
1600.0	62.266	-59006.	413.38	-7.20413E+05	23.518
1650.0	62.271	-55893.	415.30	-7.41131E+05	23.462
1700.0	62.276	-52779.	417.15	-7.61942E+05	23.411
1750.0	62.281	-49665.	418.96	-7.82845E+05	23.366
1800.0	62.285	-46551.	420.71	-8.03837E+05	23.326
1850.0	62.289	-43437.	422.42	-8.24916E+05	23.291
1900.0	62.292	-40322.	424.08	-8.46079E+05	23.260
1950.0	62.296	-37208.	425.70	-8.67323E+05	23.232
2000.0	62.299	-34093.	427.28	-8.88648E+05	23.209
2050.0	62.302	-30978.	428.82	-9.10050E+05	23.188
2100.0	62.304	-27863.	430.32	-9.31529E+05	23.170
2150.0	62.307	-24747.	431.78	-9.53081E+05	23.155
2200.0	62.309	-21632.	433.22	-9.74707E+05	23.142
2250.0	62.312	-18517.	434.62	-9.96403E+05	23.131
2300.0	62.314	-15401.	435.99	-1.01817E+06	23.123
2350.0	62.316	-12285.	437.33	-1.04000E+06	23.116
2400.0	62.318	-9169.3	438.64	-1.06190E+06	23.111
2450.0	62.320	-6053.4	439.92	-1.08386E+06	23.108
2500.0	62.321	-2937.3	441.18	-1.10589E+06	23.106
2550.0	62.323	178.78	442.42	-1.12798E+06	23.105
2600.0	62.325	3295.0	443.63	-1.15013E+06	23.106
2650.0	62.326	6411.3	444.81	-1.17234E+06	23.108
2700.0	62.328	9527.6	445.98	-1.19461E+06	23.111
2750.0	62.329	12644.	447.12	-1.21694E+06	23.115
2800.0	62.330	15760.	448.25	-1.23933E+06	23.119
2850.0	62.331	18877.	449.35	-1.26177E+06	23.125
2900.0	62.333	21994.	450.43	-1.28426E+06	23.131
2950.0	62.334	25110.	451.50	-1.30681E+06	23.139
3000.0	62.335	28227.	452.55	-1.32941E+06	23.146

CdI2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.812	-60167.	324.77	-1.56998E+05	27.505
300.00	60.831	-60054.	325.15	-1.57600E+05	27.440
350.00	61.232	-57002.	334.56	-1.74098E+05	25.982
400.00	61.492	-53934.	342.75	-1.91035E+05	24.946
450.00	61.671	-50854.	350.01	-2.08358E+05	24.185
500.00	61.799	-47767.	356.51	-2.26024E+05	23.612
550.00	61.894	-44675.	362.41	-2.43999E+05	23.173
600.00	61.966	-41578.	367.80	-2.62256E+05	22.831
650.00	62.022	-38479.	372.76	-2.80772E+05	22.563
700.00	62.067	-35376.	377.36	-2.99526E+05	22.350
750.00	62.103	-32272.	381.64	-3.18502E+05	22.182
800.00	62.133	-29166.	385.65	-3.37685E+05	22.048
850.00	62.157	-26059.	389.42	-3.57063E+05	21.942
900.00	62.178	-22950.	392.97	-3.76623E+05	21.858
950.00	62.196	-19841.	396.33	-3.96357E+05	21.793
1000.0	62.211	-16731.	399.52	-4.16254E+05	21.742
1050.0	62.224	-13620.	402.56	-4.36306E+05	21.704
1100.0	62.235	-10509.	405.45	-4.56507E+05	21.677
1150.0	62.245	-7396.6	408.22	-4.76849E+05	21.659
1200.0	62.254	-4284.1	410.87	-4.97327E+05	21.648
1250.0	62.262	-1171.2	413.41	-5.17935E+05	21.643
1300.0	62.269	1942.0	415.85	-5.38667E+05	21.643
1350.0	62.275	5055.6	418.20	-5.59518E+05	21.649
1400.0	62.280	8169.5	420.47	-5.80485E+05	21.658
1450.0	62.285	11284.	422.65	-6.01564E+05	21.670
1500.0	62.290	14398.	424.76	-6.22749E+05	21.686
1550.0	62.294	17513.	426.81	-6.44039E+05	21.703
1600.0	62.298	20627.	428.79	-6.65429E+05	21.723
1650.0	62.301	23742.	430.70	-6.86917E+05	21.745
1700.0	62.305	26858.	432.56	-7.08498E+05	21.769
1750.0	62.308	29973.	434.37	-7.30172E+05	21.794
1800.0	62.310	33088.	436.12	-7.51934E+05	21.820
1850.0	62.313	36204.	437.83	-7.73784E+05	21.847
1900.0	62.315	39320.	439.49	-7.95717E+05	21.875
1950.0	62.317	42435.	441.11	-8.17732E+05	21.904
2000.0	62.319	45551.	442.69	-8.39827E+05	21.933
2050.0	62.321	48667.	444.23	-8.62000E+05	21.963
2100.0	62.323	51784.	445.73	-8.84249E+05	21.994
2150.0	62.325	54900.	447.20	-9.06573E+05	22.025
2200.0	62.326	58016.	448.63	-9.28969E+05	22.056
2250.0	62.328	61132.	450.03	-9.51435E+05	22.087
2300.0	62.329	64249.	451.40	-9.73971E+05	22.119
2350.0	62.331	67365.	452.74	-9.96575E+05	22.151
2400.0	62.332	70482.	454.05	-1.01924E+06	22.183
2450.0	62.333	73598.	455.34	-1.04198E+06	22.215
2500.0	62.334	76715.	456.60	-1.06478E+06	22.247
2550.0	62.335	79832.	457.83	-1.08764E+06	22.279
2600.0	62.336	82949.	459.04	-1.11056E+06	22.311
2650.0	62.337	86066.	460.23	-1.13354E+06	22.343
2700.0	62.338	89182.	461.39	-1.15658E+06	22.375
2750.0	62.339	92299.	462.54	-1.17968E+06	22.407
2800.0	62.340	95416.	463.66	-1.20284E+06	22.439
2850.0	62.340	98533.	464.77	-1.22605E+06	22.470
2900.0	62.341	1.01650E+05	465.85	-1.24931E+06	22.502
2950.0	62.342	1.04767E+05	466.92	-1.27263E+06	22.533
3000.0	62.343	1.07885E+05	467.96	-1.29600E+06	22.565

CdO

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	44.637	-2.59408E+05	54.810	-2.75750E+05	48.309
300.00	44.716	-2.59325E+05	55.086	-2.75851E+05	48.029
350.00	46.479	-2.57043E+05	62.120	-2.78785E+05	41.605
400.00	47.734	-2.54686E+05	68.413	-2.82051E+05	36.831
450.00	48.695	-2.52274E+05	74.093	-2.85616E+05	33.153
500.00	49.474	-2.49819E+05	79.265	-2.89452E+05	30.238
550.00	50.133	-2.47329E+05	84.012	-2.93535E+05	27.877
600.00	50.710	-2.44807E+05	88.399	-2.97847E+05	25.929
650.00	51.230	-2.42259E+05	92.479	-3.02370E+05	24.298
700.00	51.709	-2.39685E+05	96.293	-3.07090E+05	22.915
750.00	52.157	-2.37088E+05	99.876	-3.11996E+05	21.729
800.00	52.581	-2.34470E+05	103.26	-3.17075E+05	20.702
850.00	52.987	-2.31831E+05	106.46	-3.22318E+05	19.807
900.00	53.380	-2.29171E+05	109.50	-3.27718E+05	19.020
950.00	53.761	-2.26493E+05	112.39	-3.33265E+05	18.324
1000.0	54.133	-2.23795E+05	115.16	-3.38955E+05	17.705
1050.0	54.497	-2.21080E+05	117.81	-3.44779E+05	17.151
1100.0	54.856	-2.18346E+05	120.35	-3.50734E+05	16.655
1150.0	55.209	-2.15594E+05	122.80	-3.56813E+05	16.207
1200.0	55.558	-2.12825E+05	125.16	-3.63012E+05	15.801
1250.0	55.904	-2.10038E+05	127.43	-3.69327E+05	15.433
1300.0	56.247	-2.07235E+05	129.63	-3.75754E+05	15.098
1350.0	56.587	-2.04414E+05	131.76	-3.82289E+05	14.791
1400.0	56.925	-2.01576E+05	133.82	-3.88929E+05	14.511
1450.0	57.261	-1.98721E+05	135.83	-3.95671E+05	14.253
1500.0	57.595	-1.95850E+05	137.77	-4.02511E+05	14.016

Cds

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	47.350	-1.49400E+05	72.180	-1.70920E+05	29.944
300.00	47.402	-1.49312E+05	72.473	-1.71054E+05	29.782
350.00	48.585	-1.46911E+05	79.874	-1.74867E+05	26.097
400.00	49.463	-1.44459E+05	86.422	-1.79027E+05	23.378
450.00	50.164	-1.41968E+05	92.289	-1.83498E+05	21.299
500.00	50.755	-1.39444E+05	97.606	-1.88247E+05	19.666
550.00	51.274	-1.36893E+05	102.47	-1.93251E+05	18.353
600.00	51.744	-1.34318E+05	106.95	-1.98488E+05	17.279
650.00	52.179	-1.31719E+05	111.11	-2.03940E+05	16.388
700.00	52.590	-1.29100E+05	114.99	-2.09594E+05	15.640
750.00	52.982	-1.26461E+05	118.63	-2.15436E+05	15.004
800.00	53.360	-1.23802E+05	122.06	-2.21454E+05	14.459
850.00	53.727	-1.21125E+05	125.31	-2.27639E+05	13.989
900.00	54.085	-1.18430E+05	128.39	-2.33982E+05	13.580
950.00	54.437	-1.15717E+05	131.33	-2.40476E+05	13.222
1000.0	54.783	-1.12986E+05	134.13	-2.47113E+05	12.908
1050.0	55.125	-1.10238E+05	136.81	-2.53886E+05	12.630
1100.0	55.463	-1.07474E+05	139.38	-2.60791E+05	12.384
1150.0	55.798	-1.04692E+05	141.85	-2.67823E+05	12.165
1200.0	56.131	-1.01894E+05	144.23	-2.74975E+05	11.969
1250.0	56.461	-99079.	146.53	-2.82245E+05	11.794
1300.0	56.790	-96248.	148.75	-2.89627E+05	11.637
1350.0	57.117	-93400.	150.90	-2.97119E+05	11.496
1400.0	57.443	-90536.	152.99	-3.04716E+05	11.369
1450.0	57.768	-87656.	155.01	-3.12416E+05	11.254
1500.0	58.091	-84759.	156.97	-3.20216E+05	11.151
1550.0	58.414	-81847.	158.88	-3.28113E+05	11.057
1600.0	58.736	-78918.	160.74	-3.36103E+05	10.972
1650.0	59.057	-75973.	162.55	-3.44186E+05	10.896
1700.0	59.378	-73012.	164.32	-3.52358E+05	10.826
1748.0	59.685	-70155.	165.98	-3.60285E+05	10.766
1748.0	67.000	-36155.	185.43	-3.60285E+05	10.766
1750.0	67.000	-36021.	185.51	-3.60656E+05	10.765
1800.0	67.000	-32671.	187.39	-3.69979E+05	10.736
1850.0	67.000	-29321.	189.23	-3.79395E+05	10.712
1900.0	67.000	-25971.	191.02	-3.88901E+05	10.691
1950.0	67.000	-22621.	192.76	-3.98496E+05	10.674
2000.0	67.000	-19271.	194.45	-4.08176E+05	10.660
2050.0	67.000	-15921.	196.11	-4.17940E+05	10.649
2100.0	67.000	-12571.	197.72	-4.27786E+05	10.640
2150.0	67.000	-9220.7	199.30	-4.37712E+05	10.634
2200.0	67.000	-5870.7	200.84	-4.47715E+05	10.630
2250.0	67.000	-2520.7	202.34	-4.57795E+05	10.628
2300.0	67.000	829.28	203.82	-4.67949E+05	10.627
2350.0	67.000	4179.3	205.26	-4.78176E+05	10.628
2400.0	67.000	7529.3	206.67	-4.88474E+05	10.631
2450.0	67.000	10879.	208.05	-4.98842E+05	10.635
2500.0	67.000	14229.	209.40	-5.09279E+05	10.641
2550.0	67.000	17579.	210.73	-5.19782E+05	10.647
2600.0	67.000	20929.	212.03	-5.30351E+05	10.655
2650.0	67.000	24279.	213.31	-5.40985E+05	10.663
2700.0	67.000	27629.	214.56	-5.51682E+05	10.673
2750.0	67.000	30979.	215.79	-5.62441E+05	10.683
2800.0	67.000	34329.	217.00	-5.73260E+05	10.694
2850.0	67.000	37679.	218.18	-5.84140E+05	10.706
2900.0	67.000	41029.	219.35	-5.95078E+05	10.718
2950.0	67.000	44379.	220.49	-6.06074E+05	10.731
3000.0	67.000	47729.	221.62	-6.17127E+05	10.745

CdS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.569	1.75658E+05	244.98	1.02617E+05	-17.978
300.00	35.594	1.75724E+05	245.20	1.02163E+05	-17.788
350.00	36.122	1.77518E+05	250.73	89762.	-13.396
400.00	36.467	1.79333E+05	255.58	77102.	-10.068
450.00	36.709	1.81163E+05	259.89	64213.	-7.4535
500.00	36.889	1.83003E+05	263.77	51120.	-5.3404
550.00	37.030	1.84851E+05	267.29	37842.	-3.5939
600.00	37.145	1.86705E+05	270.52	24396.	-2.1238
650.00	37.245	1.88565E+05	273.49	10795.	-0.86748
700.00	37.335	1.90430E+05	276.26	-2949.5	0.22009
750.00	37.419	1.92299E+05	278.83	-16827.	1.1719
800.00	37.499	1.94172E+05	281.25	-30830.	2.0130
850.00	37.578	1.96049E+05	283.53	-44950.	2.7622
900.00	37.657	1.97929E+05	285.68	-59181.	3.4347
950.00	37.737	1.99814E+05	287.72	-73516.	4.0421
1000.0	37.819	2.01703E+05	289.65	-87951.	5.5940
1050.0	37.904	2.03596E+05	291.50	-1.02480E+05	5.0980
1100.0	37.991	2.05494E+05	293.27	-1.17100E+05	5.5605
1150.0	38.081	2.07395E+05	294.96	-1.31806E+05	5.9866
1200.0	38.205	2.09302E+05	296.58	-1.46594E+05	6.3809
1250.0	38.361	2.11216E+05	298.14	-1.61463E+05	6.7470
1300.0	38.546	2.13139E+05	299.65	-1.76408E+05	7.0880
1350.0	38.760	2.15071E+05	301.11	-1.91427E+05	7.4066
1400.0	39.001	2.17015E+05	302.52	-2.06518E+05	7.7051
1450.0	39.268	2.18972E+05	303.90	-2.21679E+05	7.9855
1500.0	39.559	2.20943E+05	305.23	-2.36907E+05	8.2496
1550.0	39.874	2.22928E+05	306.54	-2.52201E+05	8.4989
1600.0	40.212	2.24930E+05	307.81	-2.67560E+05	8.7347
1650.0	40.573	2.26950E+05	309.05	-2.82982E+05	8.9582
1700.0	40.956	2.28988E+05	310.27	-2.98465E+05	9.1705
1750.0	41.361	2.31046E+05	311.46	-3.14008E+05	9.3724
1800.0	41.787	2.33124E+05	312.63	-3.29610E+05	9.5648
1850.0	42.235	2.35225E+05	313.78	-3.45271E+05	9.7484
1900.0	42.703	2.37348E+05	314.91	-3.60988E+05	9.9240
1950.0	43.191	2.39496E+05	316.03	-3.76762E+05	10.092
2000.0	43.700	2.41668E+05	317.13	-3.92591E+05	10.253
2050.0	44.227	2.43866E+05	318.21	-4.08474E+05	10.408
2100.0	44.754	2.46090E+05	319.29	-4.24412E+05	10.556
2150.0	45.281	2.48341E+05	320.35	-4.40403E+05	10.699
2200.0	45.805	2.50619E+05	321.39	-4.56446E+05	10.837
2250.0	46.324	2.52922E+05	322.43	-4.72542E+05	10.970
2300.0	46.836	2.55251E+05	323.45	-4.88689E+05	11.098
2350.0	47.340	2.57605E+05	324.46	-5.04887E+05	11.222
2400.0	47.834	2.59985E+05	325.47	-5.21135E+05	11.342
2450.0	48.317	2.62388E+05	326.46	-5.37433E+05	11.458
2500.0	48.789	2.64816E+05	327.44	-5.53781E+05	11.570
2550.0	49.247	2.67267E+05	328.41	-5.70177E+05	11.679
2600.0	49.691	2.69741E+05	329.37	-5.86622E+05	11.785
2650.0	50.120	2.72236E+05	330.32	-6.03114E+05	11.888
2700.0	50.534	2.74752E+05	331.26	-6.19654E+05	11.988
2750.0	50.931	2.77289E+05	332.19	-6.36240E+05	12.085
2800.0	51.312	2.79845E+05	333.11	-6.52873E+05	12.179
2850.0	51.675	2.82420E+05	334.02	-6.69551E+05	12.271
2900.0	52.020	2.85012E+05	334.93	-6.86275E+05	12.361
2950.0	52.347	2.87622E+05	335.82	-7.03044E+05	12.448
3000.0	52.655	2.90247E+05	336.70	-7.19857E+05	12.534

CdSO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	100.40	-9.33450E+05	123.01	-9.70126E+05	169.96
300.00	100.54	-9.33265E+05	123.63	-9.70354E+05	168.95
350.00	104.41	-9.28141E+05	139.42	-9.76938E+05	145.80
400.00	108.28	-9.22823E+05	153.62	-9.84270E+05	128.53
450.00	112.15	-9.17313E+05	166.59	-9.92279E+05	115.18
500.00	116.02	-9.11608E+05	178.61	-1.00091E+06	104.56
550.00	119.89	-9.05710E+05	189.85	-1.01013E+06	95.931
600.00	123.76	-8.99619E+05	200.45	-1.01989E+06	88.787
650.00	127.63	-8.93334E+05	210.51	-1.03016E+06	82.783
700.00	131.50	-8.86856E+05	220.11	-1.04093E+06	77.673
750.00	135.37	-8.80184E+05	229.31	-1.05217E+06	73.278
800.00	139.24	-8.73318E+05	238.17	-1.06386E+06	69.461
850.00	143.11	-8.66259E+05	246.73	-1.07598E+06	66.120
900.00	146.98	-8.59007E+05	255.02	-1.08852E+06	63.175
950.00	150.85	-8.51561E+05	263.07	-1.10148E+06	60.562
1000.0	154.72	-8.43921E+05	270.91	-1.11483E+06	58.231
1050.0	158.59	-8.36089E+05	278.55	-1.12856E+06	56.142
1100.0	162.46	-8.28062E+05	286.02	-1.14268E+06	54.260
1150.0	166.33	-8.19842E+05	293.32	-1.15716E+06	52.559
1200.0	170.21	-8.11429E+05	300.48	-1.17201E+06	51.015
1250.0	174.08	-8.02822E+05	307.51	-1.18721E+06	49.610
1300.0	177.95	-7.94021E+05	314.41	-1.20276E+06	48.326
1350.0	181.82	-7.85027E+05	321.20	-1.21865E+06	47.151
1400.0	185.69	-7.75839E+05	327.88	-1.23488E+06	46.073

CdSeO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	94.667	-5.81994E+05	120.08	-6.17797E+05	108.23
300.00	94.768	-5.81819E+05	120.67	-6.18019E+05	107.60
350.00	97.487	-5.77013E+05	135.48	-6.24431E+05	93.189
400.00	100.21	-5.72070E+05	148.67	-6.31540E+05	82.469
450.00	102.93	-5.66992E+05	160.63	-6.39278E+05	74.204
500.00	105.65	-5.61778E+05	171.62	-6.47588E+05	67.651
550.00	108.37	-5.56428E+05	181.82	-6.56426E+05	62.341
600.00	111.09	-5.50941E+05	191.36	-6.65758E+05	57.958
650.00	113.80	-5.45319E+05	200.36	-6.75554E+05	54.287
700.00	116.52	-5.39561E+05	208.89	-6.85787E+05	51.173
750.00	119.24	-5.33667E+05	217.03	-6.96436E+05	48.503
800.00	121.96	-5.27636E+05	224.81	-7.07484E+05	46.193
850.00	124.68	-5.21470E+05	232.28	-7.18912E+05	44.178
900.00	127.40	-5.15168E+05	239.49	-7.30707E+05	42.408
950.00	130.12	-5.08730E+05	246.45	-7.42857E+05	40.844
953.00	130.29	-5.08339E+05	246.86	-7.43597E+05	40.756
953.00	142.67	-4.49763E+05	308.32	-7.43597E+05	40.756
1000.0	142.67	-4.43058E+05	315.19	-7.58251E+05	39.606
1050.0	142.67	-4.35924E+05	322.15	-7.74186E+05	38.513
1100.0	142.67	-4.28790E+05	328.79	-7.90461E+05	37.535

CdTe

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.170	-1.00800E+05	95.000	-1.29124E+05	22.621
300.00	50.185	-1.00707E+05	95.310	-1.29300E+05	22.513
350.00	50.579	-98188.	103.08	-1.34265E+05	20.037
400.00	50.973	-95649.	109.86	-1.39592E+05	18.228
450.00	51.368	-93091.	115.88	-1.45238E+05	16.858
500.00	51.762	-90513.	121.31	-1.51170E+05	15.792
550.00	52.156	-87915.	126.27	-1.57361E+05	14.945
600.00	52.551	-85297.	130.82	-1.63790E+05	14.259
650.00	52.945	-82660.	135.04	-1.70438E+05	13.696
700.00	53.339	-80002.	138.98	-1.77290E+05	13.229
750.00	53.734	-77326.	142.68	-1.84332E+05	12.838
800.00	54.128	-74629.	146.16	-1.91554E+05	12.507
850.00	54.522	-71913.	149.45	-1.98944E+05	12.225
900.00	54.916	-69177.	152.58	-2.06496E+05	11.984
950.00	55.311	-66421.	155.56	-2.14200E+05	11.777
1000.0	55.705	-63646.	158.40	-2.22049E+05	11.598
1050.0	56.099	-60851.	161.13	-2.30038E+05	11.443
1100.0	56.494	-58036.	163.75	-2.38160E+05	11.309
1150.0	56.888	-55201.	166.27	-2.46411E+05	11.192
1200.0	57.282	-52347.	168.70	-2.54786E+05	11.090
1250.0	57.676	-49473.	171.05	-2.63280E+05	11.002
1300.0	58.071	-46579.	173.32	-2.71889E+05	10.924
1350.0	58.465	-43666.	175.51	-2.80610E+05	10.857
1365.0	58.583	-42788.	176.16	-2.83248E+05	10.839
1365.0	67.000	2211.9	209.13	-2.83248E+05	10.839
1400.0	67.000	4556.9	210.82	-2.90597E+05	10.842
1450.0	67.000	7906.9	213.18	-3.01197E+05	10.850
1500.0	67.000	11257.	215.45	-3.11913E+05	10.862
1550.0	67.000	14607.	217.64	-3.22741E+05	10.876
1600.0	67.000	17957.	219.77	-3.33676E+05	10.893
1650.0	67.000	21307.	221.83	-3.44717E+05	10.913
1700.0	67.000	24657.	223.83	-3.55859E+05	10.934
1750.0	67.000	28007.	225.77	-3.67099E+05	10.957
1800.0	67.000	31357.	227.66	-3.78435E+05	10.982
1850.0	67.000	34707.	229.50	-3.89864E+05	11.008
1900.0	67.000	38057.	231.28	-4.01384E+05	11.035
1950.0	67.000	41407.	233.03	-4.12992E+05	11.063
2000.0	67.000	44757.	234.72	-4.24686E+05	11.091
2050.0	67.000	48107.	236.38	-4.36463E+05	11.121
2100.0	67.000	51457.	237.99	-4.48323E+05	11.151
2150.0	67.000	54807.	239.57	-4.60262E+05	11.182
2200.0	67.000	58157.	241.11	-4.72279E+05	11.213
2250.0	67.000	61507.	242.61	-4.84372E+05	11.245
2300.0	67.000	64857.	244.09	-4.96540E+05	11.276
2350.0	67.000	68207.	245.53	-5.08780E+05	11.309
2400.0	67.000	71557.	246.94	-5.21092E+05	11.341
2450.0	67.000	74907.	248.32	-5.33473E+05	11.374
2500.0	67.000	78257.	249.67	-5.45923E+05	11.406
2550.0	67.000	81607.	251.00	-5.58440E+05	11.439
2600.0	67.000	84957.	252.30	-5.71022E+05	11.472
2650.0	67.000	88307.	253.58	-5.83670E+05	11.505
2700.0	67.000	91657.	254.83	-5.96380E+05	11.537
2750.0	67.000	95007.	256.06	-6.09152E+05	11.570
2800.0	67.000	98357.	257.26	-6.21985E+05	11.603
2850.0	67.000	1.01707E+05	258.45	-6.34878E+05	11.636
2900.0	67.000	1.05057E+05	259.62	-6.47830E+05	11.668
2950.0	67.000	1.08407E+05	260.76	-6.60839E+05	11.701
3000.0	67.000	1.11757E+05	261.89	-6.73906E+05	11.733

Cd(NO3)2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	179.91	-4.56955E+05	207.95	-5.18954E+05	90.916
300.00	179.91	-4.56622E+05	209.06	-5.19340E+05	90.423
350.00	179.91	-4.47627E+05	236.79	-5.30504E+05	79.171
400.00	179.91	-4.38631E+05	260.82	-5.42957E+05	70.901
431.00	179.91	-4.33054E+05	274.24	-5.51253E+05	66.807
431.00	213.38	-4.30125E+05	281.04	-5.51253E+05	66.807
450.00	213.38	-4.26071E+05	290.25	-5.56681E+05	64.616
500.00	213.38	-4.15401E+05	312.73	-5.71765E+05	59.730
550.00	213.38	-4.04732E+05	333.07	-5.87918E+05	55.834
600.00	213.38	-3.94063E+05	351.63	-6.05042E+05	52.672

Cdsb

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.306	-13347.	95.604	-41851.	7.3320
300.00	50.342	-13254.	95.915	-42028.	7.3176
350.00	51.313	-10713.	103.75	-47024.	7.0178
400.00	52.283	-8122.6	110.66	-52388.	6.8410
450.00	53.254	-5484.2	116.88	-58079.	6.7415
500.00	54.225	-2797.2	122.54	-64067.	6.6928
550.00	55.195	-61.748	127.75	-70326.	6.6788
600.00	56.166	2722.3	132.60	-76836.	6.6890
650.00	57.137	5554.9	137.13	-83580.	6.7164
700.00	58.107	8436.0	141.40	-90544.	6.7563
729.00	58.670	10129.	143.77	-94680.	6.7839
729.00	88.158	45693.	192.56	-94680.	6.7839
750.00	86.574	47528.	195.04	-98750.	6.8774
800.00	82.803	51762.	200.50	-1.08641E+05	7.0933
850.00	79.032	55808.	205.41	-1.18791E+05	7.2998
900.00	75.261	59666.	209.82	-1.29173E+05	7.4968

CdCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.390	-7.51865E+05	92.466	-7.79434E+05	136.55
300.00	82.634	-7.51712E+05	92.976	-7.79605E+05	135.74
350.00	89.224	-7.47416E+05	106.21	-7.84589E+05	117.09
400.00	95.814	-7.42790E+05	118.55	-7.90211E+05	103.19
450.00	102.40	-7.37834E+05	130.22	-7.96433E+05	92.445
500.00	108.99	-7.32549E+05	141.35	-8.03224E+05	83.910
550.00	115.58	-7.26935E+05	152.05	-8.10561E+05	76.979
600.00	122.17	-7.20991E+05	162.39	-8.18423E+05	71.248
650.00	128.76	-7.14718E+05	172.43	-8.26795E+05	66.440
700.00	135.35	-7.08115E+05	182.21	-8.35661E+05	62.356

Ce

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.946	0.00000E+00	69.454	-20708.	3.6278
300.00	26.968	49.871	69.621	-20836.	3.6278
350.00	27.595	1413.7	73.824	-24425.	3.6451
400.00	28.269	2810.2	77.553	-28211.	3.6839
450.00	28.974	4241.1	80.923	-32174.	3.7346
500.00	29.703	5708.0	84.013	-36299.	3.7920
550.00	30.450	7211.7	86.879	-40572.	3.8531
600.00	31.212	8753.2	89.561	-44983.	3.9160
650.00	31.989	10333.	92.090	-49525.	3.9798
700.00	32.778	11952.	94.489	-54190.	4.0436
750.00	33.579	13611.	96.778	-58972.	4.1071
800.00	34.391	15310.	98.971	-63866.	4.1699
850.00	35.215	17050.	101.08	-68868.	4.2320
900.00	36.049	18832.	103.12	-73973.	4.2932
950.00	36.893	20656.	105.09	-79179.	4.3534
1000.0	37.748	22521.	107.00	-84481.	4.4127
1000.0	37.614	25513.	109.99	-84481.	4.4127
1000.0	37.614	25513.	109.99	-84481.	4.4127
1050.0	37.614	27394.	111.83	-90027.	4.4785
1072.0	37.614	28221.	112.61	-92496.	4.5069
1072.0	37.698	33681.	117.70	-92496.	4.5069
1100.0	37.698	34737.	118.67	-95805.	4.5493
1150.0	37.698	36622.	120.35	-1.01781E+05	4.6229
1200.0	37.698	38507.	121.95	-1.07839E+05	4.6940
1250.0	37.698	40392.	123.49	-1.13976E+05	4.7627
1300.0	37.698	42277.	124.97	-1.20188E+05	4.8291
1350.0	37.698	44161.	126.40	-1.26472E+05	4.8934
1400.0	37.698	46046.	127.77	-1.32826E+05	4.9557
1450.0	37.698	47931.	129.09	-1.39248E+05	5.0161
1500.0	37.698	49816.	130.37	-1.45734E+05	5.0748
1550.0	37.698	51701.	131.60	-1.52284E+05	5.1318
1600.0	37.698	53586.	132.80	-1.58894E+05	5.1872
1650.0	37.698	55471.	133.96	-1.65563E+05	5.2412
1700.0	37.698	57356.	135.09	-1.72289E+05	5.2937
1750.0	37.698	59241.	136.18	-1.79071E+05	5.3448
1800.0	37.698	61125.	137.24	-1.85907E+05	5.3947
1850.0	37.698	63010.	138.27	-1.92795E+05	5.4434
1900.0	37.698	64895.	139.28	-1.99734E+05	5.4909
1950.0	37.698	66780.	140.26	-2.06722E+05	5.5373
2000.0	37.698	68665.	141.21	-2.13759E+05	5.5827
2050.0	37.698	70550.	142.14	-2.20843E+05	5.6270
2100.0	37.698	72435.	143.05	-2.27973E+05	5.6704
2150.0	37.698	74320.	143.94	-2.35148E+05	5.7128
2200.0	37.698	76205.	144.80	-2.42366E+05	5.7544
2250.0	37.698	78089.	145.65	-2.49628E+05	5.7951
2300.0	37.698	79974.	146.48	-2.56931E+05	5.8349
2350.0	37.698	81859.	147.29	-2.64275E+05	5.8740
2400.0	37.698	83744.	148.09	-2.71660E+05	5.9124
2450.0	37.698	85629.	148.86	-2.79084E+05	5.9500
2500.0	37.698	87514.	149.62	-2.86546E+05	5.9869
2550.0	37.698	89399.	150.37	-2.94046E+05	6.0231
2600.0	37.698	91284.	151.10	-3.01583E+05	6.0587
2650.0	37.698	93169.	151.82	-3.09156E+05	6.0937
2700.0	37.698	95053.	152.53	-3.16765E+05	6.1280
2750.0	37.698	96938.	153.22	-3.24408E+05	6.1618
2800.0	37.698	98823.	153.90	-3.32086E+05	6.1950
2850.0	37.698	1.00708E+05	154.56	-3.39798E+05	6.2276
2900.0	37.698	1.02593E+05	155.22	-3.47542E+05	6.2598
2950.0	37.698	1.04478E+05	155.86	-3.55319E+05	6.2914
3000.0	37.698	1.06363E+05	156.50	-3.63128E+05	6.3225

CeH2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	40.884	-1.93301E+05	55.773	-2.09930E+05	36.778
300.00	40.920	-1.93225E+05	56.026	-2.10033E+05	36.569
350.00	41.882	-1.91155E+05	62.406	-2.12997E+05	31.787
400.00	42.844	-1.89037E+05	68.061	-2.16262E+05	28.240
450.00	43.806	-1.86871E+05	73.163	-2.19794E+05	25.512
500.00	44.769	-1.84656E+05	77.829	-2.23571E+05	23.356
550.00	45.731	-1.82394E+05	82.141	-2.27571E+05	21.612
600.00	46.693	-1.80083E+05	86.161	-2.31780E+05	20.178
650.00	47.656	-1.77724E+05	89.936	-2.36183E+05	18.979
700.00	48.618	-1.75318E+05	93.503	-2.40770E+05	17.966
750.00	49.580	-1.72863E+05	96.890	-2.45531E+05	17.100
800.00	50.543	-1.70360E+05	100.12	-2.50456E+05	16.353
850.00	51.505	-1.67808E+05	103.21	-2.55540E+05	15.703
900.00	52.467	-1.65209E+05	106.19	-2.60776E+05	15.135
950.00	53.430	-1.62562E+05	109.05	-2.66157E+05	14.634
1000.0	54.392	-1.59866E+05	111.81	-2.71679E+05	14.191
1050.0	55.354	-1.57122E+05	114.49	-2.77337E+05	13.796
1100.0	56.317	-1.54331E+05	117.09	-2.83127E+05	13.444
1150.0	57.279	-1.51491E+05	119.61	-2.89044E+05	13.128
1200.0	58.241	-1.48603E+05	122.07	-2.95087E+05	12.844

CeF3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	72.574	-1.24851E+06	337.10	-1.34901E+06	236.34
300.00	72.672	-1.24837E+06	337.55	-1.34964E+06	234.99
350.00	74.949	-1.24468E+06	348.93	-1.36680E+06	203.98
400.00	76.708	-1.24089E+06	359.06	-1.38451E+06	180.79
450.00	78.146	-1.23701E+06	368.18	-1.40269E+06	162.82
500.00	79.367	-1.23307E+06	376.48	-1.42131E+06	148.48
550.00	80.428	-1.22908E+06	384.09	-1.44033E+06	136.79
600.00	81.365	-1.22503E+06	391.13	-1.45971E+06	127.08
650.00	82.200	-1.22094E+06	397.68	-1.47944E+06	118.89
700.00	82.949	-1.21682E+06	403.80	-1.49947E+06	111.89
750.00	83.620	-1.21265E+06	409.54	-1.51981E+06	105.85
800.00	84.222	-1.20845E+06	414.96	-1.54042E+06	100.58
850.00	84.758	-1.20423E+06	420.08	-1.56130E+06	95.943
900.00	85.232	-1.19998E+06	424.94	-1.58243E+06	91.839
950.00	85.648	-1.19571E+06	429.56	-1.60379E+06	88.180
1000.0	86.006	-1.19142E+06	433.96	-1.62538E+06	84.899
1050.0	86.310	-1.18711E+06	438.17	-1.64718E+06	81.941
1100.0	86.559	-1.18279E+06	442.19	-1.66919E+06	79.261
1150.0	86.755	-1.17845E+06	446.04	-1.69140E+06	76.824
1200.0	86.898	-1.17411E+06	449.74	-1.71379E+06	74.598
1250.0	86.990	-1.16976E+06	453.29	-1.73637E+06	72.557
1300.0	87.031	-1.16541E+06	456.70	-1.75912E+06	70.681
1350.0	87.105	-1.16106E+06	459.98	-1.78204E+06	68.949
1400.0	87.138	-1.15670E+06	463.15	-1.80512E+06	67.348
1450.0	87.138	-1.15235E+06	466.21	-1.82835E+06	65.863
1500.0	87.112	-1.14799E+06	469.16	-1.85174E+06	64.482
1550.0	87.067	-1.14364E+06	472.02	-1.87527E+06	63.194
1600.0	87.009	-1.13928E+06	474.78	-1.89894E+06	61.992
1650.0	86.942	-1.13493E+06	477.46	-1.92274E+06	60.867
1700.0	86.870	-1.13059E+06	480.05	-1.94668E+06	59.813
1750.0	86.797	-1.12625E+06	482.57	-1.97075E+06	58.822
1800.0	86.725	-1.12191E+06	485.02	-1.99494E+06	57.890
1850.0	86.657	-1.11757E+06	487.39	-2.01925E+06	57.012
1900.0	86.596	-1.11324E+06	489.70	-2.04368E+06	56.183
1950.0	86.542	-1.10892E+06	491.95	-2.06822E+06	55.400
2000.0	86.498	-1.10459E+06	494.14	-2.09287E+06	54.659

CeCl3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.406	-7.22995E+05	370.71	-8.33523E+05	146.03
300.00	78.453	-7.22850E+05	371.20	-8.34209E+05	145.24
350.00	79.575	-7.18898E+05	383.38	-8.53080E+05	127.31
400.00	80.511	-7.14895E+05	394.07	-8.72522E+05	113.94
450.00	81.326	-7.10849E+05	403.60	-8.92468E+05	103.59
500.00	82.056	-7.06764E+05	412.20	-9.12866E+05	95.364
550.00	82.721	-7.02645E+05	420.06	-9.33675E+05	88.671
600.00	83.332	-6.98493E+05	427.28	-9.54861E+05	83.126
650.00	83.899	-6.94312E+05	433.97	-9.76394E+05	78.462
700.00	84.424	-6.90104E+05	440.21	-9.98251E+05	74.489
750.00	84.913	-6.85870E+05	446.05	-1.02041E+06	71.066
800.00	85.367	-6.81613E+05	451.55	-1.04285E+06	68.089
850.00	85.788	-6.77334E+05	456.73	-1.06556E+06	65.480
900.00	86.177	-6.73035E+05	461.65	-1.08852E+06	63.174
950.00	86.508	-6.68718E+05	466.32	-1.11172E+06	61.125
1000.0	86.775	-6.64385E+05	470.76	-1.13515E+06	59.292
1050.0	86.988	-6.60041E+05	475.00	-1.15879E+06	57.645
1100.0	87.157	-6.55687E+05	479.05	-1.18264E+06	56.158
1150.0	87.287	-6.51326E+05	482.93	-1.20669E+06	54.808
1200.0	87.384	-6.46959E+05	486.65	-1.23093E+06	53.580
1250.0	87.452	-6.42588E+05	490.21	-1.25536E+06	52.457
1300.0	87.495	-6.38214E+05	493.65	-1.27995E+06	51.428
1350.0	87.514	-6.33839E+05	496.95	-1.30472E+06	50.481
1400.0	87.513	-6.29463E+05	500.13	-1.32965E+06	49.608
1450.0	87.493	-6.25088E+05	503.20	-1.35473E+06	48.801
1500.0	87.456	-6.20714E+05	506.17	-1.37996E+06	48.053
1550.0	87.403	-6.16343E+05	509.03	-1.40534E+06	47.359
1600.0	87.335	-6.11974E+05	511.81	-1.43087E+06	46.712
1650.0	87.254	-6.07609E+05	514.49	-1.45652E+06	46.109
1700.0	87.160	-6.03249E+05	517.10	-1.48231E+06	45.545
1750.0	87.054	-5.98894E+05	519.62	-1.50823E+06	45.017
1800.0	86.937	-5.94544E+05	522.07	-1.53428E+06	44.522
1850.0	86.874	-5.90198E+05	524.45	-1.56044E+06	44.058
1900.0	86.812	-5.85856E+05	526.77	-1.58672E+06	43.621
1950.0	86.750	-5.81517E+05	529.02	-1.61311E+06	43.209
2000.0	86.688	-5.77181E+05	531.22	-1.63962E+06	42.821

CeBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.068	-5.97057E+05	398.37	-7.15830E+05	125.41
300.00	80.102	-5.96909E+05	398.86	-7.16568E+05	124.76
350.00	80.903	-5.92883E+05	411.27	-7.36829E+05	109.96
400.00	81.555	-5.88821E+05	422.12	-7.57669E+05	98.939
450.00	82.136	-5.84728E+05	431.76	-7.79021E+05	90.424
500.00	82.687	-5.80608E+05	440.44	-8.00829E+05	83.660
550.00	83.232	-5.76460E+05	448.35	-8.23052E+05	78.165
600.00	83.784	-5.72284E+05	455.62	-8.45654E+05	73.619
650.00	84.310	-5.68082E+05	462.34	-8.68605E+05	69.800
700.00	84.799	-5.63854E+05	468.61	-8.91880E+05	66.551
750.00	85.250	-5.59603E+05	474.47	-9.15459E+05	63.757
800.00	85.662	-5.55330E+05	479.99	-9.39322E+05	61.330
850.00	86.035	-5.51037E+05	485.19	-9.63453E+05	59.205
900.00	86.368	-5.46727E+05	490.12	-9.87837E+05	57.331
950.00	86.661	-5.42401E+05	494.80	-1.01246E+06	55.668
1000.0	86.914	-5.38061E+05	499.25	-1.03731E+06	54.182
1050.0	87.126	-5.33710E+05	503.50	-1.06238E+06	52.849
1100.0	87.298	-5.29349E+05	507.55	-1.08766E+06	51.647
1150.0	87.429	-5.24981E+05	511.44	-1.11313E+06	50.559
1200.0	87.519	-5.20607E+05	515.16	-1.13880E+06	49.569
1250.0	87.595	-5.16229E+05	518.74	-1.16465E+06	48.667
1300.0	87.632	-5.11848E+05	522.17	-1.19067E+06	47.841
1350.0	87.637	-5.07467E+05	525.48	-1.21686E+06	47.082
1400.0	87.617	-5.03085E+05	528.67	-1.24322E+06	46.384
1450.0	87.577	-4.98705E+05	531.74	-1.26973E+06	45.739
1500.0	87.521	-4.94328E+05	534.71	-1.29639E+06	45.143
1550.0	87.453	-4.89953E+05	537.58	-1.32320E+06	44.590
1600.0	87.376	-4.85583E+05	540.35	-1.35015E+06	44.077
1650.0	87.292	-4.81216E+05	543.04	-1.37723E+06	43.598
1700.0	87.205	-4.76853E+05	545.64	-1.40445E+06	43.152
1750.0	87.115	-4.72495E+05	548.17	-1.43179E+06	42.736
1800.0	87.024	-4.68142E+05	550.62	-1.45926E+06	42.346
1850.0	86.935	-4.63793E+05	553.01	-1.48686E+06	41.980
1900.0	86.848	-4.59448E+05	555.32	-1.51456E+06	41.637
1950.0	86.764	-4.55108E+05	557.58	-1.54239E+06	41.315
2000.0	86.684	-4.50772E+05	559.77	-1.57032E+06	41.012

CeI3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	81.567	-3.71958E+05	427.34	-4.99370E+05	87.485
300.00	81.587	-3.71807E+05	427.85	-5.00161E+05	87.084
350.00	82.056	-3.67715E+05	440.46	-5.21876E+05	77.884
400.00	82.458	-3.63602E+05	451.44	-5.44180E+05	71.061
450.00	82.847	-3.59470E+05	461.18	-5.67000E+05	65.814
500.00	83.253	-3.55317E+05	469.93	-5.90281E+05	61.665
550.00	83.692	-3.51144E+05	477.88	-6.13979E+05	58.309
600.00	84.174	-3.46947E+05	485.19	-6.38058E+05	55.547
650.00	84.646	-3.42727E+05	491.94	-6.62489E+05	53.237
700.00	85.096	-3.38483E+05	498.23	-6.87245E+05	51.282
750.00	85.516	-3.34218E+05	504.12	-7.12305E+05	49.608
800.00	85.905	-3.29932E+05	509.65	-7.37651E+05	48.162
850.00	86.257	-3.25628E+05	514.87	-7.63265E+05	46.903
900.00	86.573	-3.21307E+05	519.81	-7.89133E+05	45.799
950.00	86.849	-3.16971E+05	524.49	-8.15241E+05	44.824
1000.0	87.086	-3.12623E+05	528.96	-8.41578E+05	43.958
1050.0	87.281	-3.08263E+05	533.21	-8.68133E+05	43.186
1100.0	87.435	-3.03895E+05	537.27	-8.94896E+05	42.494
1150.0	87.546	-2.99521E+05	541.16	-9.21858E+05	41.871
1200.0	87.615	-2.95141E+05	544.89	-9.49010E+05	41.308
1250.0	87.661	-2.90759E+05	548.47	-9.76344E+05	40.798
1300.0	87.680	-2.86376E+05	551.91	-1.00385E+06	40.334
1350.0	87.676	-2.81992E+05	555.22	-1.03153E+06	39.911
1400.0	87.654	-2.77608E+05	558.40	-1.05937E+06	39.525
1450.0	87.616	-2.73227E+05	561.48	-1.08737E+06	39.170
1500.0	87.566	-2.68847E+05	564.45	-1.11552E+06	38.845
1550.0	87.506	-2.64470E+05	567.32	-1.14381E+06	38.545
1600.0	87.437	-2.60097E+05	570.10	-1.17225E+06	38.269
1650.0	87.361	-2.55727E+05	572.79	-1.20082E+06	38.014
1700.0	87.279	-2.51361E+05	575.39	-1.22953E+06	37.778
1750.0	87.194	-2.46999E+05	577.92	-1.25836E+06	37.559
1800.0	87.105	-2.42641E+05	580.38	-1.28732E+06	37.356
1850.0	87.013	-2.38288E+05	582.76	-1.31640E+06	37.167
1900.0	86.920	-2.33940E+05	585.08	-1.34559E+06	36.992
1950.0	86.826	-2.29596E+05	587.34	-1.37490E+06	36.829
2000.0	86.732	-2.25257E+05	589.53	-1.40433E+06	36.676

CeO<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.523	-1.30701E+05	246.10	-2.04077E+05	35.753
300.00	34.593	-1.30637E+05	246.32	-2.04532E+05	35.611
350.00	36.312	-1.28863E+05	251.78	-2.16987E+05	32.383
400.00	37.772	-1.27010E+05	256.73	-2.29702E+05	29.995
450.00	39.040	-1.25089E+05	261.25	-2.42653E+05	28.166
500.00	40.154	-1.23109E+05	265.43	-2.55822E+05	26.725
550.00	41.132	-1.21076E+05	269.30	-2.69191E+05	25.565
600.00	41.989	-1.18998E+05	272.92	-2.82747E+05	24.615
650.00	42.730	-1.16879E+05	276.31	-2.96479E+05	23.825
700.00	43.362	-1.14726E+05	279.50	-3.10375E+05	23.160
750.00	43.888	-1.12545E+05	282.51	-3.24426E+05	22.594
800.00	44.310	-1.10339E+05	285.35	-3.38623E+05	22.109
850.00	44.640	-1.08115E+05	288.05	-3.52959E+05	21.690
900.00	44.879	-1.05877E+05	290.61	-3.67426E+05	21.324
950.00	45.048	-1.03628E+05	293.04	-3.82017E+05	21.004
1000.0	45.161	-1.01373E+05	295.35	-3.96728E+05	20.722
1050.0	45.231	-99113.	297.56	-4.11551E+05	20.473
1100.0	45.267	-96850.	299.67	-4.26482E+05	20.251
1150.0	45.276	-94587.	301.68	-4.41516E+05	20.054
1200.0	45.263	-92323.	303.60	-4.56648E+05	19.877
1250.0	45.234	-90061.	305.45	-4.71875E+05	19.718
1300.0	45.191	-87800.	307.22	-4.87192E+05	19.575
1350.0	45.139	-85542.	308.93	-5.02596E+05	19.446
1400.0	45.079	-83286.	310.57	-5.18084E+05	19.329
1450.0	45.014	-81034.	312.15	-5.33652E+05	19.224
1500.0	44.946	-78785.	313.68	-5.49298E+05	19.128
1550.0	44.876	-76539.	315.15	-5.65019E+05	19.041
1600.0	44.804	-74297.	316.57	-5.80812E+05	18.961
1650.0	44.733	-72059.	317.95	-5.96676E+05	18.889
1700.0	44.664	-69824.	319.28	-6.12607E+05	18.823
1750.0	44.596	-67592.	320.58	-6.28603E+05	18.762
1800.0	44.531	-65364.	321.83	-6.44664E+05	18.707
1850.0	44.469	-63139.	323.05	-6.60786E+05	18.657
1900.0	44.411	-60917.	324.24	-6.76968E+05	18.611
1950.0	44.357	-58698.	325.39	-6.93209E+05	18.569
2000.0	44.307	-56482.	326.51	-7.09507E+05	18.530
2050.0	44.263	-54267.	327.61	-7.25860E+05	18.495
2100.0	44.223	-52055.	328.67	-7.42267E+05	18.462
2150.0	44.190	-49845.	329.71	-7.58727E+05	18.433
2200.0	44.161	-47636.	330.73	-7.75238E+05	18.406
2250.0	44.139	-45429.	331.72	-7.91799E+05	18.381
2300.0	44.123	-43222.	332.69	-8.08410E+05	18.359
2350.0	44.114	-41016.	333.64	-8.25068E+05	18.339
2400.0	44.110	-38811.	334.57	-8.41773E+05	18.320
2450.0	44.114	-36605.	335.48	-8.58524E+05	18.303
2500.0	44.124	-34399.	336.37	-8.75321E+05	18.288
2550.0	44.140	-32193.	337.24	-8.92161E+05	18.275
2600.0	44.164	-29985.	338.10	-9.09044E+05	18.262
2650.0	44.195	-27776.	338.94	-9.25971E+05	18.252
2700.0	44.233	-25565.	339.77	-9.42938E+05	18.242
2750.0	44.278	-23353.	340.58	-9.59947E+05	18.233
2800.0	44.330	-21138.	341.38	-9.76996E+05	18.226
2850.0	44.360	-18920.	342.16	-9.94085E+05	18.219
2900.0	44.393	-16702.	342.93	-1.01121E+06	18.213
2950.0	44.431	-14481.	343.69	-1.02838E+06	18.209
3000.0	44.472	-12258.	344.44	-1.04558E+06	18.205

Ce2O3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	117.53	-1.79970E+06	144.40	-1.84275E+06	322.83
300.00	117.71	-1.79948E+06	145.13	-1.84302E+06	320.89
350.00	121.90	-1.79349E+06	163.60	-1.85075E+06	276.20
400.00	125.29	-1.78731E+06	180.11	-1.85935E+06	242.80
450.00	128.22	-1.78097E+06	195.03	-1.86873E+06	216.91
500.00	130.85	-1.77449E+06	208.68	-1.87883E+06	196.28
550.00	133.31	-1.76788E+06	221.27	-1.88958E+06	179.45
600.00	135.63	-1.76116E+06	232.97	-1.90094E+06	165.49
650.00	137.86	-1.75432E+06	243.91	-1.91287E+06	153.72
700.00	140.03	-1.74738E+06	254.21	-1.92532E+06	143.67
750.00	142.15	-1.74032E+06	263.94	-1.93828E+06	134.99
800.00	144.23	-1.73316E+06	273.18	-1.95171E+06	127.43
850.00	146.28	-1.72590E+06	281.99	-1.96559E+06	120.79
900.00	148.31	-1.71853E+06	290.41	-1.97990E+06	114.91
950.00	150.33	-1.71107E+06	298.48	-1.99463E+06	109.67
1000.0	152.32	-1.70350E+06	306.24	-2.00974E+06	104.98
1050.0	154.31	-1.69584E+06	313.72	-2.02524E+06	100.75
1100.0	156.29	-1.68807E+06	320.95	-2.04111E+06	96.922
1150.0	158.26	-1.68021E+06	327.94	-2.05734E+06	93.445
1200.0	160.22	-1.67224E+06	334.72	-2.07390E+06	90.272
1250.0	162.18	-1.66418E+06	341.30	-2.09080E+06	87.368
1300.0	164.13	-1.65603E+06	347.69	-2.10803E+06	84.700
1350.0	166.21	-1.64777E+06	353.93	-2.12557E+06	82.241
1400.0	167.95	-1.63941E+06	360.01	-2.14342E+06	79.970
1450.0	169.40	-1.63098E+06	365.93	-2.16157E+06	77.866
1500.0	170.61	-1.62248E+06	371.69	-2.18001E+06	75.913
1550.0	171.63	-1.61392E+06	377.30	-2.19874E+06	74.095
1600.0	172.49	-1.60531E+06	382.76	-2.21774E+06	72.400
1650.0	173.22	-1.59667E+06	388.08	-2.23701E+06	70.816
1700.0	173.85	-1.58799E+06	393.26	-2.25654E+06	69.333
1750.0	174.39	-1.57929E+06	398.31	-2.27633E+06	67.943
1800.0	174.87	-1.57056E+06	403.23	-2.29637E+06	66.637
1850.0	175.31	-1.56180E+06	408.03	-2.31665E+06	65.409
1900.0	175.71	-1.55303E+06	412.71	-2.33717E+06	64.252
1950.0	176.09	-1.54423E+06	417.28	-2.35792E+06	63.160
2000.0	176.46	-1.53542E+06	421.74	-2.37890E+06	62.129
2050.0	176.84	-1.52659E+06	426.10	-2.40010E+06	61.154
2100.0	177.22	-1.51773E+06	430.37	-2.42151E+06	60.230
2150.0	177.62	-1.50886E+06	434.54	-2.44313E+06	59.355
2200.0	178.04	-1.49997E+06	438.63	-2.46496E+06	58.524
2250.0	178.50	-1.49106E+06	442.64	-2.48699E+06	57.735
2300.0	178.99	-1.48212E+06	446.57	-2.50922E+06	56.985
2350.0	179.51	-1.47316E+06	450.42	-2.53165E+06	56.271
2400.0	160.00	-1.46431E+06	454.15	-2.55426E+06	55.591
2450.0	160.00	-1.45631E+06	457.45	-2.57705E+06	54.942
2500.0	160.00	-1.44831E+06	460.68	-2.60001E+06	54.323
2523.0	160.00	-1.44463E+06	462.14	-2.61062E+06	54.047
2523.0	200.00	-1.32463E+06	509.71	-2.61062E+06	54.047
2550.0	200.00	-1.31923E+06	511.84	-2.62441E+06	53.758
2600.0	200.00	-1.30923E+06	515.72	-2.65010E+06	53.240
2650.0	200.00	-1.29923E+06	519.53	-2.67598E+06	52.745
2700.0	200.00	-1.28923E+06	523.27	-2.70205E+06	52.273
2750.0	200.00	-1.27923E+06	526.94	-2.72831E+06	51.821
2800.0	200.00	-1.26923E+06	530.54	-2.75474E+06	51.389
2850.0	200.00	-1.25923E+06	534.08	-2.78136E+06	50.975
2900.0	200.00	-1.24923E+06	537.56	-2.80815E+06	50.579
2950.0	200.00	-1.23923E+06	540.98	-2.83512E+06	50.199
3000.0	200.00	-1.22923E+06	544.34	-2.86225E+06	49.835

CeO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	61.629	-1.09040E+06	62.300	-1.10897E+06	194.28
300.00	61.791	-1.09029E+06	62.682	-1.10909E+06	193.10
350.00	65.329	-1.08710E+06	72.491	-1.11247E+06	166.02
400.00	67.793	-1.08377E+06	81.384	-1.11632E+06	145.77
450.00	69.630	-1.08033E+06	89.480	-1.12060E+06	130.07
500.00	71.080	-1.07681E+06	96.894	-1.12526E+06	117.55
550.00	72.276	-1.07323E+06	103.73	-1.13028E+06	107.34
600.00	73.299	-1.06959E+06	110.06	-1.13563E+06	98.862
650.00	74.200	-1.06590E+06	115.96	-1.14128E+06	91.712
700.00	75.013	-1.06217E+06	121.49	-1.14722E+06	85.604
750.00	75.761	-1.05840E+06	126.69	-1.15342E+06	80.329
800.00	76.459	-1.05460E+06	131.61	-1.15988E+06	75.730
850.00	77.119	-1.05076E+06	136.26	-1.16658E+06	71.687
900.00	77.748	-1.04688E+06	140.69	-1.17350E+06	68.107
950.00	78.354	-1.04298E+06	144.91	-1.18064E+06	64.915
1000.0	78.940	-1.03905E+06	148.94	-1.18799E+06	62.053
1050.0	79.511	-1.03509E+06	152.81	-1.19553E+06	59.473
1100.0	80.069	-1.03110E+06	156.52	-1.20327E+06	57.137
1150.0	80.616	-1.02708E+06	160.09	-1.21118E+06	55.012
1200.0	81.155	-1.02304E+06	163.53	-1.21927E+06	53.072
1250.0	81.685	-1.01897E+06	166.85	-1.22753E+06	51.295
1300.0	82.210	-1.01487E+06	170.07	-1.23596E+06	49.660
1350.0	82.729	-1.01074E+06	173.18	-1.24454E+06	48.153
1400.0	83.243	-1.00660E+06	176.20	-1.25327E+06	46.759
1450.0	83.753	-1.00242E+06	179.13	-1.26216E+06	45.467
1500.0	84.260	-9.98220E+05	181.98	-1.27119E+06	44.266
1550.0	84.763	-9.93995E+05	184.75	-1.28035E+06	43.147
1600.0	85.264	-9.89744E+05	187.45	-1.28966E+06	42.102
1650.0	85.762	-9.85468E+05	190.08	-1.29910E+06	41.125
1700.0	86.258	-9.81168E+05	192.65	-1.30867E+06	40.209
1750.0	86.753	-9.76842E+05	195.15	-1.31836E+06	39.350
1800.0	87.246	-9.72492E+05	197.60	-1.32818E+06	38.542
1850.0	87.737	-9.68118E+05	200.00	-1.33812E+06	37.781
1900.0	88.227	-9.63719E+05	202.35	-1.34818E+06	37.063
1950.0	88.716	-9.59295E+05	204.65	-1.35836E+06	36.385
2000.0	89.203	-9.54847E+05	206.90	-1.36864E+06	35.744
2050.0	89.690	-9.50375E+05	209.11	-1.37904E+06	35.138
2100.0	90.176	-9.45878E+05	211.27	-1.38955E+06	34.562
2150.0	90.661	-9.41357E+05	213.40	-1.40017E+06	34.017
2200.0	91.145	-9.36812E+05	215.49	-1.41089E+06	33.498
2250.0	91.628	-9.32243E+05	217.55	-1.42172E+06	33.005
2300.0	92.111	-9.27649E+05	219.56	-1.43265E+06	32.536
2350.0	92.594	-9.23032E+05	221.55	-1.44368E+06	32.088
2400.0	93.076	-9.18390E+05	223.51	-1.45480E+06	31.662
2450.0	93.557	-9.13724E+05	225.43	-1.46603E+06	31.255
2500.0	94.038	-9.09034E+05	227.32	-1.47734E+06	30.867
2550.0	94.519	-9.04320E+05	229.19	-1.48876E+06	30.495
2600.0	94.999	-8.99582E+05	231.03	-1.50026E+06	30.140
2650.0	95.479	-8.94821E+05	232.85	-1.51186E+06	29.800
2700.0	95.958	-8.90035E+05	234.63	-1.52355E+06	29.474
2750.0	96.438	-8.85225E+05	236.40	-1.53532E+06	29.162
2753.0	96.467	-8.84935E+05	236.50	-1.53603E+06	29.144
2753.0	120.00	-8.04935E+05	265.56	-1.53603E+06	29.144
2800.0	120.00	-7.99295E+05	267.60	-1.54856E+06	28.888
2850.0	120.00	-7.93295E+05	269.72	-1.56199E+06	28.627
2900.0	120.00	-7.87295E+05	271.81	-1.57553E+06	28.378
2950.0	120.00	-7.81295E+05	273.86	-1.58917E+06	28.138
3000.0	120.00	-7.75295E+05	275.87	-1.60292E+06	27.909

CeS

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	49.955	-4.56474E+05	78.241	-4.79802E+05	84.057
300.00	50.061	-4.56382E+05	78.550	-4.79947E+05	83.564
350.00	52.475	-4.53815E+05	86.459	-4.84076E+05	72.243
400.00	54.280	-4.51144E+05	93.589	-4.88580E+05	63.800
450.00	55.730	-4.48393E+05	100.07	-4.93424E+05	57.274
500.00	56.960	-4.45575E+05	106.01	-4.98578E+05	52.085
550.00	58.046	-4.42699E+05	111.49	-5.04017E+05	47.866
600.00	59.035	-4.39772E+05	116.58	-5.09720E+05	44.374
650.00	59.954	-4.36797E+05	121.34	-5.15669E+05	41.439
700.00	60.824	-4.33777E+05	125.82	-5.21849E+05	38.940
750.00	61.656	-4.30715E+05	130.04	-5.28247E+05	36.789
800.00	62.460	-4.27612E+05	134.05	-5.34850E+05	34.921
850.00	63.243	-4.24470E+05	137.86	-5.41648E+05	33.285
900.00	64.008	-4.21288E+05	141.49	-5.48633E+05	31.841
950.00	64.760	-4.18069E+05	144.97	-5.55795E+05	30.559
1000.0	65.501	-4.14812E+05	148.32	-5.63128E+05	29.414
1050.0	66.234	-4.11519E+05	151.53	-5.70624E+05	28.386
1100.0	66.958	-4.08189E+05	154.63	-5.78279E+05	27.459
1150.0	67.677	-4.04823E+05	157.62	-5.86085E+05	26.620
1200.0	68.391	-4.01422E+05	160.51	-5.94039E+05	25.857
1250.0	69.100	-3.97984E+05	163.32	-6.02135E+05	25.161
1300.0	69.806	-3.94512E+05	166.04	-6.10370E+05	24.524
1350.0	70.509	-3.91004E+05	168.69	-6.18739E+05	23.940
1400.0	71.209	-3.87461E+05	171.27	-6.27238E+05	23.402
1450.0	71.907	-3.83883E+05	173.78	-6.35864E+05	22.906
1500.0	72.603	-3.80270E+05	176.23	-6.44615E+05	22.447
1550.0	73.297	-3.76623E+05	178.62	-6.53487E+05	22.022
1600.0	73.989	-3.72940E+05	180.96	-6.62476E+05	21.627
1650.0	74.680	-3.69224E+05	183.25	-6.71582E+05	21.260
1700.0	75.370	-3.65472E+05	185.49	-6.80800E+05	20.918
1750.0	76.059	-3.61687E+05	187.68	-6.90130E+05	20.599
1800.0	76.747	-3.57867E+05	189.83	-6.99568E+05	20.300
1850.0	77.434	-3.54012E+05	191.95	-7.09112E+05	20.021
1900.0	78.120	-3.50123E+05	194.02	-7.18762E+05	19.760

CeS<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.886	1.20039E+05	253.16	44560.	-7.8065
300.00	36.949	1.20107E+05	253.39	44091.	-7.6768
350.00	38.409	1.21993E+05	259.20	31274.	-4.6673
400.00	39.517	1.23942E+05	264.40	18182.	-2.3742
450.00	40.390	1.25941E+05	269.11	4842.1	-0.56204
500.00	41.089	1.27979E+05	273.40	-8722.2	0.91118
550.00	41.649	1.30048E+05	277.34	-22492.	2.1361
600.00	42.090	1.32141E+05	280.99	-36452.	3.1733
650.00	42.426	1.34255E+05	284.37	-50587.	4.0651
700.00	42.664	1.36382E+05	287.52	-64885.	4.8417
750.00	42.812	1.38520E+05	290.47	-79336.	5.5253
800.00	42.873	1.40662E+05	293.24	-93929.	6.1328
850.00	42.921	1.42807E+05	295.84	-1.08657E+05	6.6771
900.00	42.928	1.44954E+05	298.29	-1.23511E+05	7.1682
950.00	42.903	1.47099E+05	300.61	-1.38484E+05	7.6142
1000.0	42.853	1.49243E+05	302.81	-1.53570E+05	8.0215
1050.0	42.783	1.51384E+05	304.90	-1.68764E+05	8.3953
1100.0	42.699	1.53522E+05	306.89	-1.84059E+05	8.7400
1150.0	42.603	1.55654E+05	308.79	-1.99451E+05	9.0591
1200.0	42.499	1.57782E+05	310.60	-2.14936E+05	9.3557
1250.0	42.387	1.59904E+05	312.33	-2.30510E+05	9.6322
1300.0	42.271	1.62020E+05	313.99	-2.46168E+05	9.8909
1350.0	42.151	1.64131E+05	315.58	-2.61908E+05	10.134
1400.0	42.028	1.66235E+05	317.11	-2.77726E+05	10.362
1450.0	41.904	1.68334E+05	318.59	-2.93618E+05	10.577
1500.0	41.780	1.70426E+05	320.01	-3.09583E+05	10.780
1550.0	41.655	1.72512E+05	321.37	-3.25618E+05	10.973
1600.0	41.531	1.74591E+05	322.69	-3.41720E+05	11.156
1650.0	41.409	1.76665E+05	323.97	-3.57887E+05	11.329
1700.0	41.287	1.78732E+05	325.21	-3.74116E+05	11.495
1750.0	41.168	1.80794E+05	326.40	-3.90407E+05	11.653
1800.0	41.051	1.82849E+05	327.56	-4.06756E+05	11.803
1850.0	40.937	1.84899E+05	328.68	-4.23162E+05	11.948
1900.0	40.825	1.86943E+05	329.77	-4.39623E+05	12.086
1950.0	40.717	1.88981E+05	330.83	-4.56139E+05	12.218
2000.0	40.611	1.91015E+05	331.86	-4.72706E+05	12.346
2050.0	40.509	1.93043E+05	332.86	-4.89324E+05	12.468
2100.0	40.411	1.95066E+05	333.84	-5.05992E+05	12.586
2150.0	40.315	1.97084E+05	334.79	-5.22707E+05	12.699
2200.0	40.224	1.99097E+05	335.71	-5.39470E+05	12.808
2250.0	40.136	2.01106E+05	336.62	-5.56278E+05	12.914
2300.0	40.053	2.03111E+05	337.50	-5.73131E+05	13.016
2350.0	39.973	2.05111E+05	338.36	-5.90028E+05	13.115
2400.0	39.897	2.07108E+05	339.20	-6.06967E+05	13.210
2450.0	39.826	2.09101E+05	340.02	-6.23947E+05	13.302
2500.0	39.758	2.11091E+05	340.82	-6.40968E+05	13.392
2550.0	39.695	2.13077E+05	341.61	-6.58029E+05	13.479
2600.0	39.636	2.15060E+05	342.38	-6.75129E+05	13.563
2650.0	39.581	2.17041E+05	343.14	-6.92267E+05	13.645
2700.0	39.531	2.19019E+05	343.87	-7.09442E+05	13.725
2750.0	39.485	2.20994E+05	344.60	-7.26654E+05	13.802
2800.0	39.443	2.22967E+05	345.31	-7.43902E+05	13.877

Ce3S4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	179.65	-1.65268E+06	255.22	-1.72878E+06	302.87
300.00	179.72	-1.65235E+06	256.34	-1.72925E+06	301.08
350.00	181.70	-1.64331E+06	284.19	-1.74278E+06	260.09
400.00	183.69	-1.63418E+06	308.58	-1.75761E+06	229.51
450.00	185.67	-1.62494E+06	330.33	-1.77359E+06	205.87
500.00	187.65	-1.61561E+06	350.00	-1.79061E+06	187.06
550.00	189.64	-1.60618E+06	367.97	-1.80856E+06	171.76
600.00	191.62	-1.59665E+06	384.56	-1.82738E+06	159.08
650.00	193.60	-1.58702E+06	399.97	-1.84700E+06	148.42
700.00	195.59	-1.57729E+06	414.39	-1.86736E+06	139.34
750.00	197.57	-1.56746E+06	427.96	-1.88843E+06	131.52
800.00	199.55	-1.55753E+06	440.77	-1.91015E+06	124.72
850.00	201.53	-1.54750E+06	452.93	-1.93249E+06	118.75
900.00	203.52	-1.53738E+06	464.50	-1.95543E+06	113.49
950.00	205.50	-1.52715E+06	475.56	-1.97893E+06	108.81
1000.0	207.48	-1.51683E+06	486.15	-2.00298E+06	104.62
1050.0	209.47	-1.50640E+06	496.32	-2.02754E+06	100.86
1100.0	211.45	-1.49588E+06	506.11	-2.05260E+06	97.468
1150.0	213.43	-1.48526E+06	515.56	-2.07815E+06	94.390
1200.0	215.42	-1.47454E+06	524.68	-2.10415E+06	91.589
1250.0	217.40	-1.46372E+06	533.52	-2.13061E+06	89.031

Ce2S3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	128.73	-1.18826E+06	180.33	-1.24202E+06	217.59
300.00	128.75	-1.18802E+06	181.13	-1.24236E+06	216.31
350.00	129.39	-1.18156E+06	201.02	-1.25192E+06	186.83
400.00	130.02	-1.17508E+06	218.34	-1.26242E+06	164.85
450.00	130.66	-1.16856E+06	233.69	-1.27372E+06	147.85
500.00	131.29	-1.16201E+06	247.49	-1.28576E+06	134.32
550.00	131.93	-1.15543E+06	260.03	-1.29845E+06	123.31
600.00	132.57	-1.14882E+06	271.54	-1.31174E+06	114.19
650.00	133.20	-1.14218E+06	282.18	-1.32559E+06	106.52
700.00	133.84	-1.13550E+06	292.07	-1.33995E+06	99.986
750.00	134.47	-1.12879E+06	301.33	-1.35479E+06	94.353
800.00	135.11	-1.12205E+06	310.03	-1.37007E+06	89.454
850.00	135.75	-1.11528E+06	318.24	-1.38578E+06	85.158
900.00	136.38	-1.10848E+06	326.01	-1.40189E+06	81.361
950.00	137.02	-1.10164E+06	333.40	-1.41838E+06	77.986
1000.0	137.65	-1.09478E+06	340.45	-1.43522E+06	74.967
1050.0	138.29	-1.08788E+06	347.18	-1.45242E+06	72.252
1100.0	138.93	-1.08095E+06	353.63	-1.46994E+06	69.800
1150.0	139.56	-1.07399E+06	359.82	-1.48777E+06	67.575
1200.0	140.20	-1.06699E+06	365.77	-1.50591E+06	65.549
1250.0	140.83	-1.05997E+06	371.51	-1.52435E+06	63.697
1300.0	141.47	-1.05291E+06	377.04	-1.54306E+06	61.999
1350.0	142.11	-1.04582E+06	382.39	-1.56205E+06	60.438
1400.0	142.74	-1.03870E+06	387.57	-1.58130E+06	58.997
1450.0	143.38	-1.03154E+06	392.59	-1.60080E+06	57.666
1500.0	144.01	-1.02436E+06	397.46	-1.62056E+06	56.431
1550.0	144.65	-1.01714E+06	402.20	-1.64055E+06	55.285
1600.0	145.29	-1.00990E+06	406.80	-1.66077E+06	54.217
1650.0	145.92	-1.00261E+06	411.28	-1.68122E+06	53.222
1700.0	146.56	-9.95303E+05	415.64	-1.70190E+06	52.292
1750.0	147.19	-9.87959E+05	419.90	-1.72279E+06	51.421
1800.0	147.83	-9.80584E+05	424.06	-1.74389E+06	50.605
1850.0	148.47	-9.73176E+05	428.12	-1.76519E+06	49.839
1900.0	149.10	-9.65737E+05	432.08	-1.78670E+06	49.118
1950.0	149.74	-9.58266E+05	435.97	-1.80840E+06	48.440
2000.0	150.37	-9.50763E+05	439.76	-1.83029E+06	47.801
2050.0	151.01	-9.43229E+05	443.49	-1.85237E+06	47.198
2100.0	151.64	-9.35663E+05	447.13	-1.87464E+06	46.628

Ce2O2S

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	108.41	-1.69661E+06	130.54	-1.73553E+06	304.05
300.00	108.74	-1.69641E+06	131.21	-1.73577E+06	302.22
350.00	116.09	-1.69078E+06	148.56	-1.74278E+06	260.09
400.00	121.27	-1.68484E+06	164.42	-1.75061E+06	228.60
450.00	125.20	-1.67867E+06	178.94	-1.75920E+06	204.20
500.00	128.34	-1.67233E+06	192.30	-1.76848E+06	184.75
550.00	130.98	-1.66585E+06	204.66	-1.77841E+06	168.89
600.00	133.26	-1.65924E+06	216.16	-1.78893E+06	155.74
650.00	135.31	-1.65252E+06	226.91	-1.80001E+06	144.65
700.00	137.17	-1.64571E+06	237.00	-1.81161E+06	135.18
750.00	138.90	-1.63881E+06	246.53	-1.82370E+06	127.01
800.00	140.54	-1.63182E+06	255.54	-1.83626E+06	119.89
850.00	142.09	-1.62476E+06	264.11	-1.84925E+06	113.64
900.00	143.59	-1.61761E+06	272.27	-1.86266E+06	108.10
950.00	145.03	-1.61040E+06	280.08	-1.87647E+06	103.17
1000.0	146.44	-1.60311E+06	287.55	-1.89066E+06	98.756
1050.0	147.82	-1.59576E+06	294.73	-1.90522E+06	94.777
1100.0	149.17	-1.58833E+06	301.64	-1.92013E+06	91.177
1150.0	150.50	-1.58084E+06	308.30	-1.93538E+06	87.906
1200.0	151.81	-1.57328E+06	314.73	-1.95096E+06	84.921
1250.0	153.10	-1.56566E+06	320.95	-1.96685E+06	82.188
1300.0	154.39	-1.55797E+06	326.98	-1.98305E+06	79.678
1350.0	155.66	-1.55022E+06	332.83	-1.99955E+06	77.365
1400.0	156.92	-1.54241E+06	338.52	-2.01633E+06	75.228
1450.0	158.17	-1.53453E+06	344.05	-2.03339E+06	73.249
1500.0	159.42	-1.52659E+06	349.43	-2.05073E+06	71.411
1550.0	160.66	-1.51859E+06	354.68	-2.06834E+06	69.701
1600.0	161.90	-1.51052E+06	359.80	-2.08620E+06	68.106
1650.0	163.13	-1.50240E+06	364.80	-2.10431E+06	66.615
1700.0	164.36	-1.49421E+06	369.69	-2.12268E+06	65.220

CeN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	40.358	-3.26352E+05	44.350	-3.39575E+05	59.491
300.00	40.471	-3.26277E+05	44.600	-3.39657E+05	59.138
350.00	42.950	-3.24188E+05	51.037	-3.42051E+05	51.047
400.00	44.680	-3.21995E+05	56.892	-3.44751E+05	45.019
450.00	45.975	-3.19727E+05	62.232	-3.47731E+05	40.363
500.00	46.999	-3.17402E+05	67.131	-3.50967E+05	36.664
550.00	47.847	-3.15030E+05	71.651	-3.54438E+05	33.661
600.00	48.574	-3.12619E+05	75.847	-3.58127E+05	31.177
650.00	49.217	-3.10174E+05	79.760	-3.62018E+05	29.091
700.00	49.798	-3.07698E+05	83.429	-3.66099E+05	27.318
750.00	50.333	-3.05195E+05	86.883	-3.70357E+05	25.793
800.00	50.834	-3.02666E+05	90.148	-3.74784E+05	24.470
850.00	51.309	-3.00112E+05	93.244	-3.79369E+05	23.313
900.00	51.762	-2.97535E+05	96.190	-3.84106E+05	22.292
950.00	52.199	-2.94936E+05	99.000	-3.88986E+05	21.387
1000.0	52.622	-2.92315E+05	101.69	-3.94004E+05	20.580
1050.0	53.035	-2.89674E+05	104.27	-3.99153E+05	19.856
1100.0	53.438	-2.87012E+05	106.74	-4.04429E+05	19.204
1150.0	53.834	-2.84330E+05	109.13	-4.09826E+05	18.614
1200.0	54.224	-2.81629E+05	111.43	-4.15340E+05	18.079
1250.0	54.609	-2.78908E+05	113.65	-4.20967E+05	17.591
1300.0	54.989	-2.76168E+05	115.80	-4.26704E+05	17.145
1350.0	55.365	-2.73409E+05	117.88	-4.32546E+05	16.736
1400.0	55.738	-2.70631E+05	119.90	-4.38490E+05	16.360
1450.0	56.108	-2.67835E+05	121.86	-4.44535E+05	16.013
1500.0	56.476	-2.65021E+05	123.77	-4.50676E+05	15.694
1550.0	56.842	-2.62188E+05	125.63	-4.56911E+05	15.397
1600.0	57.205	-2.59337E+05	127.44	-4.63238E+05	15.123
1650.0	57.567	-2.56467E+05	129.20	-4.69654E+05	14.868
1700.0	57.928	-2.53580E+05	130.93	-4.76157E+05	14.630
1750.0	58.287	-2.50674E+05	132.61	-4.82746E+05	14.409
1800.0	58.645	-2.47751E+05	134.26	-4.89418E+05	14.202
1850.0	59.003	-2.44810E+05	135.87	-4.96171E+05	14.009
1900.0	59.359	-2.41851E+05	137.45	-5.03005E+05	13.828
1950.0	59.714	-2.38874E+05	139.00	-5.09916E+05	13.659
2000.0	60.069	-2.35879E+05	140.51	-5.16904E+05	13.500

CeC2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.784	-62760.	79.078	-86337.	15.126
300.00	60.898	-62647.	79.454	-86484.	15.058
350.00	63.984	-59525.	89.074	-90701.	13.536
400.00	67.070	-56249.	97.819	-95377.	12.455
450.00	70.155	-52818.	105.90	-1.00472E+05	11.662
500.00	73.241	-49234.	113.45	-1.05958E+05	11.069
550.00	76.327	-45494.	120.57	-1.11810E+05	10.619
600.00	79.412	-41601.	127.35	-1.18009E+05	10.273
650.00	82.498	-37553.	133.83	-1.24539E+05	10.008
700.00	85.584	-33351.	140.05	-1.31387E+05	9.8040
750.00	88.669	-28995.	146.06	-1.38541E+05	9.6486
800.00	91.755	-24484.	151.88	-1.45990E+05	9.5319
850.00	94.841	-19819.	157.54	-1.53726E+05	9.4466
900.00	97.927	-15000.	163.05	-1.61742E+05	9.3870
950.00	101.01	-10027.	168.42	-1.70029E+05	9.3486
1000.0	104.10	-4898.8	173.68	-1.78582E+05	9.3279
1050.0	107.18	383.21	178.84	-1.87395E+05	9.3222
1100.0	110.27	5819.5	183.89	-1.96464E+05	9.3291
1150.0	113.36	11410.	188.86	-2.05783E+05	9.3467
1200.0	116.44	17155.	193.75	-2.15349E+05	9.3737
1250.0	119.53	23054.	198.57	-2.25158E+05	9.4086
1300.0	122.61	29108.	203.32	-2.35205E+05	9.4504
1350.0	125.70	35315.	208.00	-2.45488E+05	9.4983
1400.0	128.78	41677.	212.63	-2.56004E+05	9.5514
1450.0	131.87	48194.	217.20	-2.66750E+05	9.6091
1500.0	134.95	54864.	221.73	-2.77724E+05	9.6710

Cl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	21.831	1.21302E+05	165.19	72051.	-12.623
300.00	21.851	1.21342E+05	165.32	71745.	-12.492
350.00	22.259	1.22446E+05	168.73	63392.	-9.4605
400.00	22.501	1.23566E+05	171.72	54879.	-7.1663
450.00	22.644	1.24695E+05	174.37	46226.	-5.3656
500.00	22.722	1.25829E+05	176.76	37446.	-3.9119
550.00	22.755	1.26966E+05	178.93	28553.	-2.7117
600.00	22.756	1.28104E+05	180.91	19556.	-1.7025
650.00	22.731	1.29241E+05	182.73	10465.	-0.84092
700.00	22.687	1.30377E+05	184.42	1285.3	-9.5E-02
750.00	22.625	1.31510E+05	185.98	-7975.1	0.55542
800.00	22.550	1.32639E+05	187.44	-17311.	1.1303
850.00	22.444	1.33764E+05	188.80	-26717.	1.6418
900.00	22.351	1.34884E+05	190.08	-36190.	2.1003
950.00	22.267	1.35999E+05	191.29	-45724.	2.5140
1000.0	22.190	1.37110E+05	192.43	-55317.	2.8894
1050.0	22.121	1.38218E+05	193.51	-64966.	3.2318
1100.0	22.056	1.39323E+05	194.54	-74667.	3.5456
1150.0	21.997	1.40424E+05	195.52	-84419.	3.8343
1200.0	21.941	1.41522E+05	196.45	-94218.	4.1011
1250.0	21.889	1.42618E+05	197.34	-1.04063E+05	4.3484
1300.0	21.840	1.43711E+05	198.20	-1.13952E+05	4.5785
1350.0	21.794	1.44802E+05	199.03	-1.23883E+05	4.7932
1400.0	21.750	1.45891E+05	199.82	-1.33854E+05	4.9940
1450.0	21.709	1.46977E+05	200.58	-1.43864E+05	5.1824
1500.0	21.669	1.48062E+05	201.32	-1.53911E+05	5.3595
1550.0	21.631	1.49144E+05	202.03	-1.63995E+05	5.5265
1600.0	21.595	1.50225E+05	202.71	-1.74114E+05	5.6841
1650.0	21.561	1.51304E+05	203.38	-1.84266E+05	5.8332
1700.0	21.528	1.52381E+05	204.02	-1.94451E+05	5.9746
1750.0	21.496	1.53456E+05	204.64	-2.04667E+05	6.1088
1800.0	21.466	1.54531E+05	205.25	-2.14915E+05	6.2365
1850.0	21.437	1.55603E+05	205.84	-2.25192E+05	6.3581
1900.0	21.410	1.56674E+05	206.41	-2.35498E+05	6.4741
1950.0	21.383	1.57744E+05	206.96	-2.45832E+05	6.5849
2000.0	21.357	1.58813E+05	207.50	-2.56194E+05	6.6909
2050.0	21.333	1.59880E+05	208.03	-2.66582E+05	6.7924
2100.0	21.310	1.60946E+05	208.54	-2.76997E+05	6.8897
2150.0	21.287	1.62011E+05	209.05	-2.87437E+05	6.9831
2200.0	21.266	1.63075E+05	209.53	-2.97901E+05	7.0729
2250.0	21.245	1.64137E+05	210.01	-3.08390E+05	7.1592
2300.0	21.226	1.65199E+05	210.48	-3.18902E+05	7.2423
2350.0	21.207	1.66260E+05	210.94	-3.29438E+05	7.3224
2400.0	21.189	1.67320E+05	211.38	-3.39995E+05	7.3996
2450.0	21.173	1.68379E+05	211.82	-3.50576E+05	7.4742
2500.0	21.157	1.69437E+05	212.25	-3.61177E+05	7.5462
2550.0	21.142	1.70495E+05	212.66	-3.71800E+05	7.6158
2600.0	21.127	1.71551E+05	213.07	-3.82443E+05	7.6832
2650.0	21.114	1.72607E+05	213.48	-3.93107E+05	7.7484
2700.0	21.101	1.73663E+05	213.87	-4.03791E+05	7.8116
2750.0	21.089	1.74718E+05	214.26	-4.14494E+05	7.8729
2800.0	21.078	1.75772E+05	214.64	-4.25217E+05	7.9323
2850.0	21.068	1.76825E+05	215.01	-4.35958E+05	7.9900
2900.0	21.059	1.77879E+05	215.38	-4.46718E+05	8.0461
2950.0	21.050	1.78931E+05	215.74	-4.57496E+05	8.1005
3000.0	21.042	1.79984E+05	216.09	-4.68292E+05	8.1535

Cl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.933	0.00000E+00	223.08	-66511.	11.652
300.00	33.971	62.811	223.29	-66924.	11.652
350.00	34.796	1783.4	228.59	-78224.	11.674
400.00	35.358	3538.1	233.28	-89773.	11.723
450.00	35.766	5316.7	237.47	-1.01543E+05	11.787
500.00	36.076	7113.1	241.25	-1.13513E+05	11.858
550.00	36.323	8923.3	244.70	-1.25663E+05	11.934
600.00	36.525	10745.	247.87	-1.37978E+05	12.012
650.00	36.696	12575.	250.80	-1.50446E+05	12.090
700.00	36.843	14414.	253.53	-1.63055E+05	12.167
750.00	36.971	16259.	256.07	-1.75796E+05	12.243
800.00	37.085	18111.	258.46	-1.88660E+05	12.318
850.00	37.188	19968.	260.71	-2.01640E+05	12.391
900.00	37.281	21829.	262.84	-2.14729E+05	12.462
950.00	37.366	23696.	264.86	-2.27922E+05	12.532
1000.0	37.443	25566.	266.78	-2.41214E+05	12.599
1050.0	37.515	27440.	268.61	-2.54599E+05	12.665
1100.0	37.581	29317.	270.35	-2.68073E+05	12.729
1150.0	37.642	31198.	272.03	-2.81633E+05	12.792
1200.0	37.699	33081.	273.63	-2.95275E+05	12.853
1250.0	37.752	34968.	275.17	-3.08995E+05	12.912
1300.0	37.801	36856.	276.65	-3.22791E+05	12.970
1350.0	37.846	38748.	278.08	-3.36659E+05	13.026
1400.0	37.887	40641.	279.46	-3.50598E+05	13.081
1450.0	37.926	42536.	280.79	-3.64604E+05	13.134
1500.0	37.961	44434.	282.07	-3.78676E+05	13.186
1550.0	37.994	46332.	283.32	-3.92811E+05	13.237
1600.0	38.030	48233.	284.52	-4.07007E+05	13.287
1650.0	38.069	50135.	285.70	-4.21262E+05	13.336
1700.0	38.112	52040.	286.83	-4.35576E+05	13.383
1750.0	38.159	53947.	287.94	-4.49945E+05	13.430
1800.0	38.210	55856.	289.01	-4.64369E+05	13.475
1850.0	38.265	57768.	290.06	-4.78846E+05	13.520
1900.0	38.325	59683.	291.08	-4.93375E+05	13.563
1950.0	38.389	61600.	292.08	-5.07954E+05	13.606
2000.0	38.458	63522.	293.05	-5.22582E+05	13.648
2050.0	38.531	65446.	294.00	-5.37259E+05	13.689
2100.0	38.609	67375.	294.93	-5.51982E+05	13.729
2150.0	38.692	69307.	295.84	-5.66752E+05	13.769
2200.0	38.779	71244.	296.73	-5.81566E+05	13.808
2250.0	38.872	73185.	297.60	-5.96425E+05	13.846
2300.0	38.970	75131.	298.46	-6.11326E+05	13.883
2350.0	39.072	77082.	299.30	-6.26270E+05	13.920
2400.0	39.180	79039.	300.12	-6.41256E+05	13.956
2450.0	39.293	81000.	300.93	-6.56282E+05	13.992
2500.0	39.411	82968.	301.73	-6.71349E+05	14.027
2550.0	39.534	84941.	302.51	-6.86455E+05	14.061
2600.0	39.662	86921.	303.28	-7.01599E+05	14.095
2650.0	39.796	88908.	304.03	-7.16782E+05	14.128
2700.0	39.934	90901.	304.78	-7.32003E+05	14.161
2750.0	40.078	92901.	305.51	-7.47260E+05	14.193
2800.0	40.228	94909.	306.24	-7.62554E+05	14.225
2850.0	40.382	96924.	306.95	-7.77884E+05	14.257
2900.0	40.542	98947.	307.65	-7.93249E+05	14.288
2950.0	40.707	1.00978E+05	308.35	-8.08649E+05	14.318
3000.0	40.878	1.03018E+05	309.03	-8.24083E+05	14.348

Co

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.272	0.00000E+00	30.040	-8956.4	1.5691
300.00	25.308	46.787	30.196	-9012.1	1.5691
350.00	26.143	1334.0	34.163	-10623.	1.5854
400.00	26.833	2658.7	37.700	-12421.	1.6220
450.00	27.467	4016.4	40.898	-14388.	1.6700
500.00	28.093	5405.3	43.824	-16507.	1.7244
550.00	28.737	6826.0	46.531	-18766.	1.7822
600.00	29.415	8279.6	49.061	-21157.	1.8418
650.00	30.137	9768.2	51.443	-23670.	1.9021
694.99	30.831	11140.	53.483	-26030.	1.9564
694.99	30.831	11567.	54.098	-26031.	1.9564
700.00	30.911	11722.	54.320	-26302.	1.9626
750.00	31.740	13288.	56.480	-29072.	2.0247
800.00	32.628	14897.	58.557	-31949.	2.0860
850.00	33.577	16552.	60.563	-34927.	2.1463
900.00	34.631	18256.	62.511	-38004.	2.2056
950.00	35.769	20016.	64.414	-41177.	2.2640
1000.0	37.015	21835.	66.280	-44445.	2.3215
1050.0	38.416	23720.	68.119	-47805.	2.3781
1100.0	40.009	25680.	69.942	-51256.	2.4339
1150.0	41.823	27725.	71.760	-54799.	2.4890
1200.0	43.883	29866.	73.582	-58433.	2.5434
1250.0	46.349	32121.	75.423	-62158.	2.5974
1300.0	49.293	34509.	77.296	-65975.	2.6509
1350.0	52.992	37063.	79.223	-69888.	2.7041
1400.0	43.526	39769.	81.192	-73899.	2.7571
1450.0	41.526	41891.	82.680	-77996.	2.8097
1500.0	40.451	43937.	84.068	-82165.	2.8612
1550.0	39.866	45944.	85.384	-86402.	2.9116
1600.0	39.552	47928.	86.644	-90703.	2.9611
1650.0	39.435	49902.	87.859	-95066.	3.0094
1700.0	39.453	51874.	89.037	-99488.	3.0568
1750.0	39.552	53849.	90.182	-1.03969E+05	3.1032
1768.0	39.599	54561.	90.586	-1.05596E+05	3.1197
1768.0	40.500	70761.	99.749	-1.05596E+05	3.1197
1800.0	40.500	72057.	100.48	-1.08799E+05	3.1572
1850.0	40.500	74082.	101.59	-1.13851E+05	3.2145
1900.0	40.500	76107.	102.67	-1.18957E+05	3.2703
1950.0	40.500	78132.	103.72	-1.24117E+05	3.3246
2000.0	40.500	80157.	104.74	-1.29329E+05	3.3776
2050.0	40.500	82182.	105.74	-1.34591E+05	3.4293
2100.0	40.500	84207.	106.72	-1.39902E+05	3.4798
2150.0	40.500	86232.	107.67	-1.45262E+05	3.5291
2200.0	40.500	88257.	108.60	-1.50669E+05	3.5773
2250.0	40.500	90282.	109.51	-1.56122E+05	3.6243
2300.0	40.500	92307.	110.40	-1.61620E+05	3.6704
2350.0	40.500	94332.	111.27	-1.67162E+05	3.7155
2400.0	40.500	96357.	112.13	-1.72747E+05	3.7597
2450.0	40.500	98382.	112.96	-1.78375E+05	3.8029
2500.0	40.500	1.00407E+05	113.78	-1.84043E+05	3.8453
2550.0	40.500	1.02432E+05	114.58	-1.89752E+05	3.8868
2600.0	40.500	1.04457E+05	115.37	-1.95501E+05	3.9276
2650.0	40.500	1.06482E+05	116.14	-2.01289E+05	3.9675
2700.0	40.500	1.08507E+05	116.90	-2.07115E+05	4.0068
2750.0	40.500	1.10532E+05	117.64	-2.12979E+05	4.0453
2800.0	40.500	1.12557E+05	118.37	-2.18879E+05	4.0831
2850.0	40.500	1.14582E+05	119.09	-2.24815E+05	4.1203
2900.0	40.500	1.16607E+05	119.79	-2.30787E+05	4.1568
2950.0	40.500	1.18632E+05	120.48	-2.36794E+05	4.1927
3000.0	40.500	1.20657E+05	121.16	-2.42836E+05	4.2280

CoCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	38.278	1.92378E+05	243.86	1.19670E+05	-20.965
300.00	38.344	1.92449E+05	244.10	1.19219E+05	-20.757
350.00	39.791	1.94405E+05	250.13	1.06860E+05	-15.948
400.00	40.800	1.96421E+05	255.51	94217.	-12.303
450.00	41.549	1.98480E+05	260.36	81318.	-9.4389
500.00	42.134	2.00573E+05	264.77	68188.	-7.1234
550.00	42.608	2.02692E+05	268.81	54847.	-5.2088
600.00	43.004	2.04833E+05	272.53	41313.	-3.5965
650.00	43.342	2.06991E+05	275.99	27599.	-2.2178
700.00	43.635	2.09166E+05	279.21	13718.	-1.0236
750.00	43.893	2.11354E+05	282.23	-319.27	2.2E-02
800.00	44.122	2.13555E+05	285.07	-14503.	0.94690
850.00	44.326	2.15766E+05	287.75	-28824.	1.7712
900.00	44.509	2.17987E+05	290.29	-43275.	2.5116
950.00	44.673	2.20217E+05	292.70	-57851.	3.1808
1000.0	44.820	2.22454E+05	295.00	-72544.	3.7892
1050.0	44.951	2.24698E+05	297.19	-87349.	4.3453
1100.0	45.068	2.26949E+05	299.28	-1.02261E+05	4.8558
1150.0	45.171	2.29205E+05	301.29	-1.17276E+05	5.3267
1200.0	45.262	2.31466E+05	303.21	-1.32388E+05	5.7626
1250.0	45.340	2.33731E+05	305.06	-1.47595E+05	6.1675
1300.0	45.407	2.36000E+05	306.84	-1.62893E+05	6.5450
1350.0	45.448	2.38271E+05	308.56	-1.78278E+05	6.8978
1400.0	45.505	2.40545E+05	310.21	-1.93748E+05	7.2286
1450.0	45.576	2.42822E+05	311.81	-2.09298E+05	7.5396
1500.0	45.657	2.45102E+05	313.35	-2.24928E+05	7.8325
1550.0	45.748	2.47387E+05	314.85	-2.40633E+05	8.1091
1600.0	45.846	2.49677E+05	316.31	-2.56412E+05	8.3708
1650.0	45.952	2.51972E+05	317.72	-2.72263E+05	8.6189
1700.0	46.063	2.54273E+05	319.09	-2.88183E+05	8.8546
1750.0	46.179	2.56579E+05	320.43	-3.04171E+05	9.0788
1800.0	46.299	2.58891E+05	321.73	-3.20226E+05	9.2925
1850.0	46.422	2.61209E+05	323.00	-3.36344E+05	9.4964
1900.0	46.548	2.63533E+05	324.24	-3.52525E+05	9.6913
1950.0	46.677	2.65863E+05	325.45	-3.68768E+05	9.8779
2000.0	46.807	2.68201E+05	326.64	-3.85070E+05	10.057
2050.0	46.938	2.70544E+05	327.79	-4.01431E+05	10.228
2100.0	47.070	2.72894E+05	328.93	-4.17849E+05	10.393
2150.0	47.203	2.75251E+05	330.03	-4.34323E+05	10.552
2200.0	47.337	2.77615E+05	331.12	-4.50852E+05	10.704
2250.0	47.470	2.79985E+05	332.19	-4.67435E+05	10.851
2300.0	47.604	2.82362E+05	333.23	-4.84070E+05	10.993
2350.0	47.737	2.84745E+05	334.26	-5.00757E+05	11.130
2400.0	47.870	2.87135E+05	335.26	-5.17495E+05	11.263
2450.0	48.002	2.89532E+05	336.25	-5.34283E+05	11.391
2500.0	48.134	2.91936E+05	337.22	-5.51120E+05	11.515
2550.0	48.264	2.94346E+05	338.18	-5.68005E+05	11.635
2600.0	48.394	2.96762E+05	339.12	-5.84938E+05	11.751
2650.0	48.523	2.99185E+05	340.04	-6.01917E+05	11.864
2700.0	48.650	3.01614E+05	340.95	-6.18941E+05	11.974
2750.0	48.776	3.04050E+05	341.84	-6.36011E+05	12.080
2800.0	48.901	3.06492E+05	342.72	-6.53125E+05	12.184
2850.0	49.025	3.08940E+05	343.59	-6.70283E+05	12.285
2900.0	49.147	3.11394E+05	344.44	-6.87484E+05	12.383
2950.0	49.267	3.13855E+05	345.28	-7.04727E+05	12.478
3000.0	49.386	3.16321E+05	346.11	-7.22011E+05	12.571

CoCl2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.500	-3.11100E+05	109.20	-3.43658E+05	60.206
300.00	78.592	-3.10955E+05	109.69	-3.43860E+05	59.870
350.00	80.599	-3.06972E+05	121.96	-3.49658E+05	52.182
400.00	81.983	-3.02905E+05	132.82	-3.56033E+05	46.492
450.00	83.004	-2.98779E+05	142.54	-3.62921E+05	42.126
500.00	83.801	-2.94608E+05	151.33	-3.70271E+05	38.681
550.00	84.451	-2.90402E+05	159.34	-3.78041E+05	35.902
600.00	85.000	-2.86165E+05	166.72	-3.86195E+05	33.620
650.00	85.479	-2.81903E+05	173.54	-3.94704E+05	31.718
700.00	85.907	-2.77618E+05	179.89	-4.03541E+05	30.112
750.00	86.297	-2.73313E+05	185.83	-4.12686E+05	28.741
800.00	86.659	-2.68989E+05	191.41	-4.22118E+05	27.561
850.00	86.998	-2.64647E+05	196.68	-4.31822E+05	26.536
900.00	87.320	-2.60289E+05	201.66	-4.41781E+05	25.640
950.00	87.627	-2.55915E+05	206.39	-4.51983E+05	24.851
1000.0	87.924	-2.51526E+05	210.89	-4.62416E+05	24.154
1010.0	87.982	-2.50647E+05	211.76	-4.64529E+05	24.024
1010.0	100.00	-2.04647E+05	257.31	-4.64530E+05	24.024
1050.0	100.00	-2.00647E+05	261.19	-4.74900E+05	23.624
1100.0	100.00	-1.95647E+05	265.85	-4.88077E+05	23.176
1150.0	100.00	-1.90647E+05	270.29	-5.01481E+05	22.777
1200.0	100.00	-1.85647E+05	274.55	-5.15103E+05	22.421
1250.0	100.00	-1.80647E+05	278.63	-5.28933E+05	22.102
1300.0	100.00	-1.75647E+05	282.55	-5.42963E+05	21.816
1350.0	100.00	-1.70647E+05	286.32	-5.57186E+05	21.558
1400.0	100.00	-1.65647E+05	289.96	-5.71593E+05	21.326
1450.0	100.00	-1.60647E+05	293.47	-5.86180E+05	21.116
1500.0	100.00	-1.55647E+05	296.86	-6.00939E+05	20.926
1550.0	100.00	-1.50647E+05	300.14	-6.15864E+05	20.754
1600.0	100.00	-1.45647E+05	303.31	-6.30951E+05	20.598
1650.0	100.00	-1.40647E+05	306.39	-6.46194E+05	20.456
1700.0	100.00	-1.35647E+05	309.38	-6.61588E+05	20.328
1750.0	100.00	-1.30647E+05	312.28	-6.77130E+05	20.211
1800.0	100.00	-1.25647E+05	315.09	-6.92815E+05	20.104
1850.0	100.00	-1.20647E+05	317.83	-7.08638E+05	20.008
1900.0	100.00	-1.15647E+05	320.50	-7.24597E+05	19.920
1950.0	100.00	-1.10647E+05	323.10	-7.40687E+05	19.840
2000.0	100.00	-1.05647E+05	325.63	-7.56905E+05	19.768
2050.0	100.00	-1.00647E+05	328.10	-7.73249E+05	19.702
2100.0	100.00	-95647.	330.51	-7.89714E+05	19.643
2150.0	100.00	-90647.	332.86	-8.06299E+05	19.589
2200.0	100.00	-85647.	335.16	-8.22999E+05	19.540
2250.0	100.00	-80647.	337.41	-8.39814E+05	19.496
2300.0	100.00	-75647.	339.61	-8.56739E+05	19.457
2350.0	100.00	-70647.	341.76	-8.73774E+05	19.421
2400.0	100.00	-65647.	343.86	-8.90914E+05	19.390
2450.0	100.00	-60647.	345.92	-9.08159E+05	19.362
2500.0	100.00	-55647.	347.94	-9.25506E+05	19.337

CoCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.154	-93751.	297.94	-1.82582E+05	31.987
300.00	59.184	-93642.	298.30	-1.83133E+05	31.885
350.00	59.851	-90665.	307.48	-1.98283E+05	29.591
400.00	60.345	-87659.	315.51	-2.13862E+05	27.927
450.00	60.739	-84632.	322.64	-2.29819E+05	26.676
500.00	61.073	-81586.	329.06	-2.46114E+05	25.711
550.00	61.369	-78525.	334.89	-2.62715E+05	24.950
600.00	61.640	-75450.	340.24	-2.79595E+05	24.340
650.00	61.896	-72361.	345.19	-2.96732E+05	23.845
700.00	62.141	-69260.	349.78	-3.14108E+05	23.438
750.00	62.379	-66147.	354.08	-3.31705E+05	23.101
800.00	62.612	-63023.	358.11	-3.49511E+05	22.820
850.00	62.859	-59886.	361.91	-3.67513E+05	22.584
900.00	63.084	-56737.	365.51	-3.85699E+05	22.385
950.00	63.290	-53578.	368.93	-4.04061E+05	22.216
1000.0	63.480	-50408.	372.18	-4.22589E+05	22.073
1050.0	63.654	-47230.	375.28	-4.41277E+05	21.952
1100.0	63.814	-44043.	378.25	-4.60115E+05	21.848
1150.0	63.960	-40849.	381.09	-4.79099E+05	21.761
1200.0	64.095	-37647.	383.81	-4.98222E+05	21.686
1250.0	64.217	-34440.	386.43	-5.17479E+05	21.624
1300.0	64.328	-31226.	388.95	-5.36864E+05	21.571
1350.0	64.429	-28007.	391.38	-5.56372E+05	21.527
1400.0	64.518	-24783.	393.73	-5.76000E+05	21.490
1450.0	64.598	-21555.	395.99	-5.95744E+05	21.460
1500.0	64.667	-18324.	398.18	-6.15598E+05	21.436
1550.0	64.726	-15089.	400.30	-6.35561E+05	21.418
1600.0	64.775	-11851.	402.36	-6.55628E+05	21.404
1650.0	64.815	-8611.4	404.35	-6.75796E+05	21.393
1700.0	64.845	-5369.8	406.29	-6.96062E+05	21.387
1750.0	64.866	-2127.0	408.17	-7.16424E+05	21.384
1800.0	64.879	1116.6	410.00	-7.36878E+05	21.383
1850.0	64.882	4360.7	411.77	-7.57423E+05	21.385
1900.0	64.884	7604.8	413.51	-7.78055E+05	21.390
1950.0	64.886	10849.	415.19	-7.98773E+05	21.396
2000.0	64.888	14093.	416.83	-8.19573E+05	21.405
2050.0	64.889	17338.	418.44	-8.40455E+05	21.415
2100.0	64.890	20582.	420.00	-8.61416E+05	21.426
2150.0	64.890	23827.	421.53	-8.82454E+05	21.439
2200.0	64.891	27071.	423.02	-9.03568E+05	21.453
2250.0	64.891	30316.	424.48	-9.24756E+05	21.468
2300.0	64.892	33560.	425.90	-9.46015E+05	21.484
2350.0	64.893	36805.	427.30	-9.67345E+05	21.501
2400.0	64.893	40050.	428.66	-9.88745E+05	21.519
2450.0	64.894	43294.	430.00	-1.01021E+06	21.537
2500.0	64.896	46539.	431.31	-1.03174E+06	21.557
2550.0	64.897	49784.	432.60	-1.05334E+06	21.576
2600.0	64.899	53029.	433.86	-1.07500E+06	21.597
2650.0	64.901	56274.	435.09	-1.09673E+06	21.617
2700.0	64.904	59519.	436.31	-1.11851E+06	21.638
2750.0	64.907	62764.	437.50	-1.14036E+06	21.660
2800.0	64.910	66010.	438.67	-1.16226E+06	21.682
2850.0	64.914	69255.	439.82	-1.18422E+06	21.704
2900.0	64.918	72501.	440.95	-1.20624E+06	21.726
2950.0	64.923	75747.	442.06	-1.22832E+06	21.749
3000.0	64.928	78993.	443.15	-1.25045E+06	21.772

CoBr2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.700	-2.15400E+05	135.00	-2.55650E+05	44.788
300.00	79.725	-2.15253E+05	135.49	-2.55900E+05	44.555
350.00	80.398	-2.11249E+05	147.83	-2.62991E+05	39.248
400.00	81.071	-2.07213E+05	158.61	-2.70658E+05	35.343
450.00	81.744	-2.03142E+05	168.20	-2.78833E+05	32.365
500.00	82.417	-1.99038E+05	176.85	-2.87462E+05	30.030
550.00	83.090	-1.94901E+05	184.73	-2.96505E+05	28.159
600.00	83.764	-1.90729E+05	191.99	-3.05925E+05	26.632
648.00	84.410	-1.86693E+05	198.46	-3.15298E+05	25.415
648.00	84.410	-1.86523E+05	198.73	-3.15298E+05	25.415
650.00	84.437	-1.86354E+05	198.99	-3.15696E+05	25.369
700.00	85.110	-1.82116E+05	205.27	-3.25804E+05	24.311
750.00	85.783	-1.77843E+05	211.16	-3.36216E+05	23.416
800.00	86.457	-1.73537E+05	216.72	-3.46915E+05	22.651
850.00	87.130	-1.69198E+05	221.98	-3.57883E+05	21.992
900.00	87.803	-1.64824E+05	226.98	-3.69109E+05	21.422
950.00	88.476	-1.60417E+05	231.75	-3.80578E+05	20.925
951.00	88.489	-1.60329E+05	231.84	-3.80810E+05	20.916
951.00	105.00	-1.17329E+05	277.06	-3.80810E+05	20.916
1000.0	105.00	-1.12184E+05	282.33	-3.94516E+05	20.607
1050.0	105.00	-1.06934E+05	287.45	-4.08761E+05	20.334
1100.0	105.00	-1.01684E+05	292.34	-4.23257E+05	20.098
1150.0	105.00	-96434.	297.01	-4.37992E+05	19.894
1200.0	105.00	-91184.	301.48	-4.52955E+05	19.716
1250.0	105.00	-85934.	305.76	-4.68136E+05	19.562
1300.0	105.00	-80684.	309.88	-4.83528E+05	19.428
1350.0	105.00	-75434.	313.84	-4.99122E+05	19.312
1400.0	105.00	-70184.	317.66	-5.14910E+05	19.211
1450.0	105.00	-64934.	321.35	-5.30886E+05	19.124
1500.0	105.00	-59684.	324.91	-5.47042E+05	19.049
1550.0	105.00	-54434.	328.35	-5.63374E+05	18.985
1600.0	105.00	-49184.	331.68	-5.79876E+05	18.931
1650.0	105.00	-43934.	334.91	-5.96541E+05	18.884
1700.0	105.00	-38684.	338.05	-6.13365E+05	18.846
1750.0	105.00	-33434.	341.09	-6.30344E+05	18.814
1800.0	105.00	-28184.	344.05	-6.47473E+05	18.789
1850.0	105.00	-22934.	346.93	-6.64748E+05	18.769
1900.0	105.00	-17684.	349.73	-6.82164E+05	18.754
1950.0	105.00	-12434.	352.45	-6.99719E+05	18.743
2000.0	105.00	-7183.8	355.11	-7.17409E+05	18.736

CoCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	83.410	-7.11280E+05	88.701	-7.37726E+05	129.24
300.00	83.731	-7.11125E+05	89.218	-7.37891E+05	128.47
350.00	90.980	-7.06747E+05	102.70	-7.42693E+05	110.84
400.00	96.368	-7.02058E+05	115.22	-7.48145E+05	97.695
450.00	100.67	-6.97128E+05	126.82	-7.54199E+05	87.543
500.00	104.31	-6.92002E+05	137.62	-7.60814E+05	79.480
550.00	107.50	-6.86705E+05	147.72	-7.67950E+05	72.932
600.00	110.40	-6.81257E+05	157.20	-7.75575E+05	67.518
650.00	113.08	-6.75669E+05	166.14	-7.83661E+05	62.974
700.00	115.61	-6.69951E+05	174.62	-7.92182E+05	59.112
750.00	118.03	-6.64109E+05	182.67	-8.01115E+05	55.793
800.00	120.37	-6.58149E+05	190.37	-8.10443E+05	52.915

Cr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	23.433	0.00000E+00	23.543	-7019.3	1.2297
300.00	23.475	43.390	23.688	-7063.0	1.2297
350.00	24.394	1241.5	27.380	-8341.5	1.2449
400.00	25.070	2478.8	30.683	-9794.5	1.2790
450.00	25.623	3746.5	33.669	-11405.	1.3238
500.00	26.115	5040.1	36.394	-13157.	1.3745
550.00	26.585	6357.6	38.906	-15040.	1.4284
600.00	27.052	7698.5	41.239	-17045.	1.4838
650.00	27.531	9063.0	43.423	-19162.	1.5398
700.00	28.031	10452.	45.481	-21385.	1.5957
750.00	28.557	11867.	47.433	-23708.	1.6511
800.00	29.114	13308.	49.294	-26127.	1.7059
850.00	29.706	14779.	51.076	-28636.	1.7597
900.00	30.334	16279.	52.792	-31233.	1.8127
950.00	30.999	17813.	54.449	-33914.	1.8647
1000.0	31.704	19380.	56.057	-36677.	1.9158
1050.0	32.449	20984.	57.622	-39519.	1.9659
1100.0	33.235	22626.	59.149	-42439.	2.0152
1150.0	34.062	24308.	60.645	-45434.	2.0636
1200.0	34.931	26032.	62.113	-48503.	2.1112
1250.0	35.843	27802.	63.557	-51645.	2.1581
1300.0	36.797	29617.	64.981	-54858.	2.2042
1350.0	37.794	31482.	66.389	-58143.	2.2496
1400.0	38.834	33398.	67.782	-61497.	2.2944
1450.0	39.917	35366.	69.163	-64921.	2.3386
1500.0	41.044	37390.	70.535	-68413.	2.3823
1550.0	42.214	39471.	71.900	-71974.	2.4254
1600.0	43.427	41612.	73.259	-75603.	2.4681
1650.0	44.685	43815.	74.615	-79300.	2.5104
1700.0	45.986	46081.	75.968	-83064.	2.5522
1750.0	47.331	48414.	77.320	-86897.	2.5937
1800.0	48.719	50815.	78.673	-90796.	2.6348
1850.0	50.152	53287.	80.027	-94764.	2.6756
1900.0	51.629	55831.	81.384	-98799.	2.7161
1950.0	53.149	58450.	82.745	-1.02902E+05	2.7564
2000.0	54.714	61147.	84.110	-1.07074E+05	2.7964
2050.0	56.323	63922.	85.481	-1.11313E+05	2.8362
2100.0	57.976	66780.	86.858	-1.15622E+05	2.8759
2150.0	59.672	69721.	88.242	-1.19999E+05	2.9153
2180.0	60.712	71526.	89.076	-1.22659E+05	2.9389
2180.0	50.000	92530.	98.711	-1.22659E+05	2.9389
2200.0	50.000	93530.	99.167	-1.24638E+05	2.9592
2250.0	50.000	96030.	100.29	-1.29625E+05	3.0092
2300.0	50.000	98530.	101.39	-1.34667E+05	3.0583
2350.0	50.000	1.01030E+05	102.47	-1.39763E+05	3.1065
2400.0	50.000	1.03530E+05	103.52	-1.44913E+05	3.1539
2450.0	50.000	1.06030E+05	104.55	-1.50115E+05	3.2004
2500.0	50.000	1.08530E+05	105.56	-1.55367E+05	3.2461
2550.0	50.000	1.11030E+05	106.55	-1.60670E+05	3.2911
2600.0	50.000	1.13530E+05	107.52	-1.66022E+05	3.3353
2650.0	50.000	1.16030E+05	108.47	-1.71422E+05	3.3788
2700.0	50.000	1.18530E+05	109.41	-1.76869E+05	3.4216
2750.0	50.000	1.21030E+05	110.32	-1.82362E+05	3.4638
2800.0	50.000	1.23530E+05	111.23	-1.87901E+05	3.5052
2850.0	50.000	1.26030E+05	112.11	-1.93485E+05	3.5461
2900.0	50.000	1.28530E+05	112.98	-1.99112E+05	3.5863
2950.0	50.000	1.31030E+05	113.83	-2.04782E+05	3.6259
3000.0	50.000	1.33530E+05	114.68	-2.10495E+05	3.6650

CrCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.637	-1.34318E+05	290.06	-2.20799E+05	38.682
300.00	57.691	-1.34211E+05	290.42	-2.21336E+05	38.537
350.00	58.845	-1.31296E+05	299.40	-2.36087E+05	35.233
400.00	59.586	-1.28334E+05	307.31	-2.51258E+05	32.810
450.00	60.093	-1.25341E+05	314.36	-2.66803E+05	30.969
500.00	60.462	-1.22327E+05	320.71	-2.82683E+05	29.531
550.00	60.745	-1.19296E+05	326.49	-2.98865E+05	28.383
600.00	60.974	-1.16253E+05	331.78	-3.15324E+05	27.451
650.00	61.170	-1.13199E+05	336.67	-3.32037E+05	26.682
700.00	61.346	-1.10136E+05	341.21	-3.48985E+05	26.041
750.00	61.512	-1.07065E+05	345.45	-3.66153E+05	25.501
800.00	61.673	-1.03985E+05	349.43	-3.83526E+05	25.041
850.00	61.834	-1.00898E+05	353.17	-4.01092E+05	24.647
900.00	61.999	-97802.	356.71	-4.18840E+05	24.308
950.00	62.169	-94698.	360.07	-4.36760E+05	24.014
1000.0	62.347	-91585.	363.26	-4.54843E+05	23.758
1050.0	62.534	-88463.	366.30	-4.73083E+05	23.534
1100.0	62.731	-85331.	369.22	-4.91472E+05	23.337
1150.0	62.939	-82190.	372.01	-5.10003E+05	23.164
1200.0	63.158	-79037.	374.69	-5.28671E+05	23.012
1250.0	63.390	-75873.	377.28	-5.47471E+05	22.877
1300.0	63.635	-72698.	379.77	-5.66397E+05	22.758
1350.0	63.893	-69510.	382.18	-5.85446E+05	22.652
1400.0	64.164	-66308.	384.50	-6.04613E+05	22.558
1450.0	64.449	-63093.	386.76	-6.23895E+05	22.475
1500.0	64.748	-59863.	388.95	-6.43288E+05	22.401
1550.0	65.061	-56618.	391.08	-6.62789E+05	22.335
1600.0	65.388	-53357.	393.15	-6.82395E+05	22.277
1650.0	65.729	-50079.	395.17	-7.02103E+05	22.226
1700.0	66.084	-46784.	397.13	-7.21911E+05	22.181
1750.0	66.454	-43470.	399.05	-7.41816E+05	22.141
1800.0	66.806	-40139.	400.93	-7.61816E+05	22.107
1850.0	67.141	-36790.	402.77	-7.81908E+05	22.077
1900.0	67.459	-33425.	404.56	-8.02092E+05	22.050
1950.0	67.762	-30044.	406.32	-8.22364E+05	22.028
2000.0	68.051	-26649.	408.04	-8.42723E+05	22.009
2050.0	68.325	-23239.	409.72	-8.63167E+05	21.993
2100.0	68.587	-19816.	411.37	-8.83694E+05	21.980
2150.0	68.835	-16381.	412.99	-9.04304E+05	21.970
2200.0	69.071	-12933.	414.57	-9.24993E+05	21.962
2250.0	69.294	-9474.0	416.13	-9.45760E+05	21.956
2300.0	69.506	-6003.9	417.65	-9.66605E+05	21.952
2350.0	69.707	-2523.6	419.15	-9.87525E+05	21.950
2400.0	69.896	966.56	420.62	-1.00852E+06	21.949
2450.0	70.075	4465.9	422.06	-1.02959E+06	21.950
2500.0	70.243	7973.9	423.48	-1.05073E+06	21.953
2550.0	70.400	11490.	424.87	-1.07193E+06	21.957
2600.0	70.548	15014.	426.24	-1.09321E+06	21.962
2650.0	70.685	18545.	427.59	-1.11456E+06	21.969
2700.0	70.812	22082.	428.91	-1.13597E+06	21.976
2750.0	70.929	25626.	430.21	-1.15745E+06	21.984
2800.0	71.037	29175.	431.49	-1.17899E+06	21.994
2850.0	71.135	32729.	432.75	-1.20060E+06	22.004
2900.0	71.224	36288.	433.98	-1.22226E+06	22.015
2950.0	71.303	39851.	435.20	-1.24399E+06	22.026
3000.0	71.373	43418.	436.40	-1.26578E+06	22.039

CrO2Cl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	84.152	-5.18000E+05	329.52	-6.16247E+05	107.96
300.00	84.335	-5.17844E+05	330.04	-6.16857E+05	107.40
350.00	88.484	-5.13518E+05	343.37	-6.33698E+05	94.572
400.00	91.561	-5.09013E+05	355.40	-6.51173E+05	85.032
450.00	93.974	-5.04373E+05	366.33	-6.69220E+05	77.679
500.00	95.934	-4.99624E+05	376.33	-6.87790E+05	71.851
550.00	97.564	-4.94785E+05	385.56	-7.06840E+05	67.128
600.00	98.936	-4.89871E+05	394.10	-7.26334E+05	63.231
650.00	100.10	-4.84895E+05	402.07	-7.46241E+05	59.967
700.00	101.08	-4.79865E+05	409.53	-7.66533E+05	57.198
750.00	101.89	-4.74790E+05	416.53	-7.87186E+05	54.823
800.00	102.56	-4.69678E+05	423.13	-8.08179E+05	52.767
850.00	103.22	-4.64533E+05	429.36	-8.29493E+05	50.973
900.00	103.76	-4.59358E+05	435.28	-8.51110E+05	49.396
950.00	104.20	-4.54159E+05	440.90	-8.73016E+05	48.001
1000.0	104.57	-4.48939E+05	446.26	-8.95196E+05	46.759
1050.0	104.88	-4.43703E+05	451.37	-9.17637E+05	45.649
1100.0	105.15	-4.38452E+05	456.25	-9.40329E+05	44.651
1150.0	105.37	-4.33189E+05	460.93	-9.63259E+05	43.751
1200.0	105.56	-4.27915E+05	465.42	-9.86419E+05	42.937
1250.0	105.73	-4.22633E+05	469.73	-1.00980E+06	42.196
1300.0	105.88	-4.17343E+05	473.88	-1.03339E+06	41.521
1350.0	106.01	-4.12046E+05	477.88	-1.05718E+06	40.904
1400.0	106.12	-4.06742E+05	481.74	-1.08117E+06	40.338
1450.0	106.22	-4.01434E+05	485.46	-1.10536E+06	39.818
1500.0	106.32	-3.96120E+05	489.07	-1.12972E+06	39.339
1550.0	106.41	-3.90802E+05	492.55	-1.15426E+06	38.897
1600.0	106.49	-3.85480E+05	495.93	-1.17897E+06	38.489
1650.0	106.56	-3.80153E+05	499.21	-1.20385E+06	38.110
1700.0	106.64	-3.74823E+05	502.39	-1.22889E+06	37.758
1750.0	106.71	-3.69490E+05	505.49	-1.25409E+06	37.432
1800.0	106.78	-3.64152E+05	508.49	-1.27944E+06	37.127
1850.0	106.85	-3.58812E+05	511.42	-1.30494E+06	36.844
1900.0	106.92	-3.53468E+05	514.27	-1.33058E+06	36.579
1950.0	106.99	-3.48120E+05	517.05	-1.35636E+06	36.332
2000.0	107.06	-3.42769E+05	519.76	-1.38228E+06	36.101
2050.0	107.13	-3.37414E+05	522.40	-1.40834E+06	35.884
2100.0	107.21	-3.32055E+05	524.98	-1.43452E+06	35.681
2150.0	107.28	-3.26693E+05	527.51	-1.46084E+06	35.490
2200.0	107.36	-3.21327E+05	529.98	-1.48727E+06	35.311
2250.0	107.44	-3.15957E+05	532.39	-1.51383E+06	35.143
2300.0	107.53	-3.10583E+05	534.75	-1.54051E+06	34.985
2350.0	107.62	-3.05204E+05	537.06	-1.56731E+06	34.836
2400.0	107.71	-2.99821E+05	539.33	-1.59422E+06	34.696
2450.0	107.80	-2.94433E+05	541.55	-1.62124E+06	34.564
2500.0	107.90	-2.89041E+05	543.73	-1.64837E+06	34.440
2550.0	108.00	-2.83643E+05	545.87	-1.67561E+06	34.323
2600.0	108.11	-2.78240E+05	547.97	-1.70296E+06	34.212
2650.0	108.22	-2.72832E+05	550.03	-1.73041E+06	34.108
2700.0	108.33	-2.67418E+05	552.05	-1.75796E+06	34.009
2750.0	108.45	-2.61998E+05	554.04	-1.78561E+06	33.916
2800.0	108.58	-2.56573E+05	556.00	-1.81336E+06	33.828
2850.0	108.70	-2.51141E+05	557.92	-1.84121E+06	33.745
2900.0	108.84	-2.45702E+05	559.81	-1.86915E+06	33.666
2950.0	108.97	-2.40257E+05	561.67	-1.89719E+06	33.592
3000.0	109.12	-2.34805E+05	563.51	-1.92532E+06	33.522

CrBr2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	66.000	-2.98000E+05	140.00	-3.39741E+05	59.520
300.00	66.050	-2.97878E+05	140.41	-3.40000E+05	59.198
350.00	67.396	-2.94542E+05	150.69	-3.47284E+05	51.828
400.00	68.743	-2.91138E+05	159.78	-3.55050E+05	46.364
450.00	70.090	-2.87667E+05	167.95	-3.63246E+05	42.163
500.00	71.436	-2.84129E+05	175.41	-3.71833E+05	38.844
550.00	72.783	-2.80524E+05	182.28	-3.80777E+05	36.162
600.00	74.130	-2.76851E+05	188.67	-3.90053E+05	33.956
650.00	75.476	-2.73111E+05	194.66	-3.99638E+05	32.114
700.00	76.823	-2.69303E+05	200.30	-4.09513E+05	30.557
750.00	78.170	-2.65429E+05	205.65	-4.19663E+05	29.227
800.00	79.516	-2.61486E+05	210.73	-4.30073E+05	28.080
850.00	80.863	-2.57477E+05	215.59	-4.40732E+05	27.083
900.00	82.210	-2.53400E+05	220.25	-4.51629E+05	26.211
950.00	83.556	-2.49256E+05	224.74	-4.62755E+05	25.443
1000.0	84.903	-2.45044E+05	229.06	-4.74100E+05	24.764
1050.0	86.249	-2.40766E+05	233.23	-4.85658E+05	24.160
1100.0	87.596	-2.36419E+05	237.27	-4.97421E+05	23.620
1115.0	88.000	-2.35103E+05	238.46	-5.00989E+05	23.469
1115.0	100.00	-1.90102E+05	278.82	-5.00989E+05	23.469
1150.0	100.00	-1.86603E+05	281.91	-5.10802E+05	23.201
1200.0	100.00	-1.81603E+05	286.17	-5.25005E+05	22.852
1250.0	100.00	-1.76603E+05	290.25	-5.39416E+05	22.540
1300.0	100.00	-1.71603E+05	294.17	-5.54027E+05	22.261
1350.0	100.00	-1.66603E+05	297.95	-5.68831E+05	22.009
1400.0	100.00	-1.61603E+05	301.58	-5.83820E+05	21.782
1450.0	100.00	-1.56603E+05	305.09	-5.98987E+05	21.577
1500.0	100.00	-1.51603E+05	308.48	-6.14327E+05	21.392
1550.0	100.00	-1.46603E+05	311.76	-6.29834E+05	21.225
1600.0	100.00	-1.41603E+05	314.94	-6.45502E+05	21.073
1650.0	100.00	-1.36603E+05	318.01	-6.61326E+05	20.935
1700.0	100.00	-1.31603E+05	321.00	-6.77301E+05	20.810
1750.0	100.00	-1.26603E+05	323.90	-6.93424E+05	20.697
1800.0	100.00	-1.21603E+05	326.72	-7.09690E+05	20.594
1850.0	100.00	-1.16603E+05	329.46	-7.26094E+05	20.501
1900.0	100.00	-1.11603E+05	332.12	-7.42634E+05	20.416
1950.0	100.00	-1.06603E+05	334.72	-7.59305E+05	20.339
2000.0	100.00	-1.01603E+05	337.25	-7.76105E+05	20.269
2050.0	100.00	-96603.	339.72	-7.93030E+05	20.206
2100.0	100.00	-91603.	342.13	-8.10076E+05	20.149
2150.0	100.00	-86603.	344.48	-8.27242E+05	20.097
2200.0	100.00	-81603.	346.78	-8.44523E+05	20.051
2250.0	100.00	-76603.	349.03	-8.61919E+05	20.009
2300.0	100.00	-71603.	351.23	-8.79426E+05	19.972
2350.0	100.00	-66603.	353.38	-8.97041E+05	19.938
2400.0	100.00	-61603.	355.48	-9.14763E+05	19.909
2450.0	100.00	-56603.	357.55	-9.32589E+05	19.883
2500.0	100.00	-51603.	359.57	-9.50516E+05	19.859
2550.0	100.00	-46603.	361.55	-9.68544E+05	19.839
2600.0	100.00	-41603.	363.49	-9.86670E+05	19.822
2650.0	100.00	-36603.	365.39	-1.00489E+06	19.807
2700.0	100.00	-31603.	367.26	-1.02321E+06	19.795
2750.0	100.00	-26603.	369.10	-1.04162E+06	19.784
2800.0	100.00	-21603.	370.90	-1.06012E+06	19.776
2850.0	100.00	-16603.	372.67	-1.07871E+06	19.770
2900.0	100.00	-11603.	374.41	-1.09738E+06	19.766
2950.0	100.00	-6602.5	376.12	-1.11615E+06	19.763
3000.0	100.00	-1602.5	377.80	-1.13500E+06	19.762

CrBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	101.21	-2.15000E+05	418.37	-3.39736E+05	59.519
300.00	101.30	-2.14813E+05	418.99	-3.40511E+05	59.287
350.00	103.12	-2.09699E+05	434.76	-3.61864E+05	54.004
400.00	104.27	-2.04512E+05	448.61	-3.83955E+05	50.138
450.00	105.04	-1.99278E+05	460.94	-4.06699E+05	47.207
500.00	105.58	-1.94011E+05	472.03	-4.30028E+05	44.924
550.00	105.97	-1.88722E+05	482.12	-4.53886E+05	43.105
600.00	106.26	-1.83416E+05	491.35	-4.78226E+05	41.632
650.00	106.49	-1.78097E+05	499.86	-5.03009E+05	40.421
700.00	106.66	-1.72768E+05	507.76	-5.28202E+05	39.414
750.00	106.81	-1.67431E+05	515.13	-5.53776E+05	38.567
800.00	106.93	-1.62087E+05	522.02	-5.79707E+05	37.850
850.00	107.04	-1.56738E+05	528.51	-6.05972E+05	37.238
900.00	107.14	-1.51384E+05	534.63	-6.32552E+05	36.711
950.00	107.23	-1.46025E+05	540.43	-6.59429E+05	36.257
1000.0	107.32	-1.40661E+05	545.93	-6.86589E+05	35.863
1050.0	107.40	-1.35293E+05	551.17	-7.14018E+05	35.520
1100.0	107.49	-1.29921E+05	556.16	-7.41702E+05	35.220
1150.0	107.58	-1.24544E+05	560.94	-7.69631E+05	34.957
1200.0	107.68	-1.19162E+05	565.53	-7.97793E+05	34.726
1250.0	107.78	-1.13776E+05	569.92	-8.26180E+05	34.523
1300.0	107.88	-1.08385E+05	574.15	-8.54783E+05	34.345
1350.0	107.99	-1.02988E+05	578.23	-8.83593E+05	34.187
1400.0	108.10	-97586.	582.16	-9.12603E+05	34.049
1450.0	108.23	-92178.	585.95	-9.41806E+05	33.927
1500.0	108.35	-86763.	589.62	-9.71196E+05	33.819
1550.0	108.49	-81342.	593.18	-1.00077E+06	33.725
1600.0	108.63	-75914.	596.62	-1.03051E+06	33.642
1650.0	108.78	-70479.	599.97	-1.06043E+06	33.569
1700.0	108.94	-65036.	603.22	-1.09051E+06	33.506
1750.0	109.10	-59585.	606.38	-1.12075E+06	33.452
1800.0	109.28	-54126.	609.45	-1.15114E+06	33.404
1850.0	109.46	-48657.	612.45	-1.18169E+06	33.364
1900.0	109.65	-43180.	615.37	-1.21239E+06	33.330
1950.0	109.84	-37692.	618.22	-1.24323E+06	33.301
2000.0	110.05	-32195.	621.01	-1.27421E+06	33.278
2050.0	110.30	-26686.	623.73	-1.30533E+06	33.259
2100.0	110.57	-21165.	626.39	-1.33658E+06	33.245
2150.0	110.86	-15629.	628.99	-1.36797E+06	33.234
2200.0	111.16	-10079.	631.55	-1.39948E+06	33.227
2250.0	111.48	-4512.8	634.05	-1.43112E+06	33.223
2300.0	111.81	1069.5	636.50	-1.46288E+06	33.222
2350.0	112.15	6668.5	638.91	-1.49477E+06	33.224
2400.0	112.50	12285.	641.27	-1.52677E+06	33.229
2450.0	112.85	17918.	643.60	-1.55889E+06	33.235
2500.0	113.21	23570.	645.88	-1.59113E+06	33.244
2550.0	113.57	29239.	648.13	-1.62348E+06	33.255
2600.0	113.93	34927.	650.33	-1.65594E+06	33.267
2650.0	114.29	40632.	652.51	-1.68852E+06	33.282
2700.0	114.65	46356.	654.65	-1.72119E+06	33.298
2750.0	115.02	52098.	656.76	-1.75398E+06	33.315
2800.0	115.38	57857.	658.83	-1.78687E+06	33.334
2850.0	115.73	63635.	660.88	-1.81986E+06	33.353
2900.0	116.09	69431.	662.89	-1.85296E+06	33.375
2950.0	116.44	75244.	664.88	-1.88615E+06	33.397
3000.0	116.78	81074.	666.84	-1.91944E+06	33.420

CrB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.818	-75312.	24.058	-82485.	14.451
300.00	35.987	-75246.	24.280	-82530.	14.369
350.00	39.767	-73346.	30.129	-83891.	12.520
400.00	42.499	-71286.	35.626	-85537.	11.170
450.00	44.622	-69106.	40.759	-87448.	10.150
500.00	46.367	-66830.	45.553	-89607.	9.3609
550.00	47.865	-64474.	50.044	-91998.	8.7370
600.00	49.195	-62046.	54.267	-94607.	8.2360
650.00	50.406	-59556.	58.253	-97421.	7.8286
700.00	51.531	-57007.	62.031	-1.00429E+05	7.4939
750.00	52.592	-54404.	65.622	-1.03621E+05	7.2166
800.00	53.605	-51749.	69.049	-1.06988E+05	6.9854
850.00	54.580	-49044.	72.328	-1.10523E+05	6.7918
900.00	55.527	-46291.	75.475	-1.14219E+05	6.6289
950.00	56.450	-43492.	78.502	-1.18069E+05	6.4917
1000.0	57.354	-40647.	81.420	-1.22067E+05	6.3760
1050.0	58.243	-37757.	84.240	-1.26209E+05	6.2784
1100.0	59.120	-34823.	86.970	-1.30490E+05	6.1963
1150.0	59.986	-31845.	89.617	-1.34905E+05	6.1274
1200.0	60.843	-28824.	92.188	-1.39450E+05	6.0700

CrB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.594	-94140.	26.150	-1.01937E+05	17.858
300.00	53.677	-94041.	26.482	-1.01985E+05	17.757
350.00	55.919	-91301.	34.924	-1.03524E+05	15.450
400.00	58.162	-88449.	42.538	-1.05464E+05	13.772
450.00	60.404	-85485.	49.518	-1.07768E+05	12.509
500.00	62.647	-82408.	55.998	-1.10407E+05	11.534
550.00	64.890	-79220.	62.074	-1.13361E+05	10.766
600.00	67.132	-75919.	67.816	-1.16609E+05	10.151
650.00	69.375	-72507.	73.278	-1.20138E+05	9.6541
700.00	71.618	-68982.	78.502	-1.23933E+05	9.2478
750.00	73.860	-65345.	83.519	-1.27985E+05	8.9134
800.00	76.103	-61596.	88.358	-1.32282E+05	8.6369
850.00	78.345	-57735.	93.039	-1.36818E+05	8.4076
900.00	80.588	-53761.	97.580	-1.41584E+05	8.2171
950.00	82.831	-49676.	102.00	-1.46574E+05	8.0590
1000.0	85.073	-45478.	106.30	-1.51782E+05	7.9281
1050.0	87.316	-41169.	110.51	-1.57202E+05	7.8202
1100.0	89.559	-36747.	114.62	-1.62831E+05	7.7320
1150.0	91.801	-32213.	118.65	-1.68663E+05	7.6607
1200.0	94.044	-27567.	122.61	-1.74695E+05	7.6041

Cs

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.210	0.00000E+00	85.230	-25411.	4.4518
300.00	32.376	59.742	85.430	-25569.	4.4519
301.59	32.522	111.32	85.601	-25705.	4.4520
301.59	32.635	2207.4	92.551	-25705.	4.4520
350.00	32.456	3784.2	97.401	-30306.	4.5228
400.00	32.024	5396.9	101.71	-35286.	4.6078
450.00	31.496	6985.1	105.45	-40467.	4.6972
500.00	30.955	8546.3	108.74	-45824.	4.7871
550.00	30.447	10081.	111.67	-51335.	4.8753
600.00	30.001	11592.	114.30	-56985.	4.9609
650.00	29.635	13083.	116.68	-62761.	5.0434
700.00	29.361	14557.	118.87	-68650.	5.1226
750.00	29.185	16020.	120.89	-74645.	5.1986
800.00	29.115	17477.	122.77	-80737.	5.2714
850.00	29.154	18934.	124.53	-86920.	5.3413
900.00	29.304	20395.	126.20	-93188.	5.4084
950.00	29.568	21866.	127.79	-99539.	5.4729
1000.0	29.948	23353.	129.32	-1.05967E+05	5.5350
1050.0	30.444	24863.	130.79	-1.12470E+05	5.5949
1100.0	31.059	26400.	132.22	-1.19045E+05	5.6529
1150.0	31.792	27971.	133.62	-1.25692E+05	5.7089
1200.0	32.643	29581.	134.99	-1.32407E+05	5.7634
1250.0	33.615	31237.	136.34	-1.39190E+05	5.8163
1300.0	34.706	32944.	137.68	-1.46041E+05	5.8678
1350.0	35.918	34710.	139.01	-1.52958E+05	5.9182
1400.0	37.251	36538.	140.34	-1.59942E+05	5.9674
1450.0	38.704	38437.	141.68	-1.66993E+05	6.0156
1500.0	40.278	40411.	143.01	-1.74110E+05	6.0629
1550.0	41.974	42466.	144.36	-1.81294E+05	6.1094
1600.0	43.791	44610.	145.72	-1.88546E+05	6.1552
1650.0	45.729	46848.	147.10	-1.95867E+05	6.2005
1700.0	47.788	49185.	148.49	-2.03256E+05	6.2452
1750.0	49.970	51628.	149.91	-2.10716E+05	6.2894
1800.0	52.273	54184.	151.35	-2.18248E+05	6.3332
1850.0	54.697	56858.	152.82	-2.25852E+05	6.3768
1900.0	57.244	59656.	154.31	-2.33530E+05	6.4200
1950.0	59.912	62584.	155.83	-2.41283E+05	6.4631
2000.0	62.702	65649.	157.38	-2.49113E+05	6.5060

CsCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.935	-2.42229E+05	256.08	-3.18579E+05	55.812
300.00	36.947	-2.42161E+05	256.31	-3.19053E+05	55.551
350.00	37.212	-2.40306E+05	262.02	-3.32014E+05	49.549
400.00	37.392	-2.38441E+05	267.00	-3.45243E+05	45.083
450.00	37.523	-2.36568E+05	271.42	-3.58705E+05	41.636
500.00	37.625	-2.34689E+05	275.38	-3.72377E+05	38.901
550.00	37.708	-2.32806E+05	278.97	-3.86237E+05	36.681
600.00	37.779	-2.30918E+05	282.25	-4.00268E+05	34.846
650.00	37.843	-2.29028E+05	285.28	-4.14457E+05	33.305
700.00	37.901	-2.27134E+05	288.08	-4.28792E+05	31.996
750.00	37.957	-2.25238E+05	290.70	-4.43263E+05	30.871
800.00	38.010	-2.23339E+05	293.15	-4.57860E+05	29.894
850.00	38.062	-2.21437E+05	295.46	-4.72575E+05	29.040
900.00	38.113	-2.19533E+05	297.63	-4.87403E+05	28.287
950.00	38.165	-2.17626E+05	299.70	-5.02337E+05	27.620
1000.0	38.217	-2.15716E+05	301.65	-5.17371E+05	27.024
1050.0	38.270	-2.13804E+05	303.52	-5.32501E+05	26.490
1100.0	38.324	-2.11889E+05	305.30	-5.47722E+05	26.008
1150.0	38.379	-2.09971E+05	307.01	-5.63030E+05	25.573
1200.0	38.435	-2.08051E+05	308.64	-5.78421E+05	25.177
1250.0	38.493	-2.06128E+05	310.21	-5.93893E+05	24.817
1300.0	38.552	-2.04202E+05	311.72	-6.09441E+05	24.487
1350.0	38.613	-2.02273E+05	313.18	-6.25064E+05	24.185
1400.0	38.675	-2.00340E+05	314.58	-6.40758E+05	23.906
1450.0	38.739	-1.98405E+05	315.94	-6.56522E+05	23.650
1500.0	38.805	-1.96466E+05	317.26	-6.72352E+05	23.413
1550.0	38.873	-1.94525E+05	318.53	-6.88247E+05	23.193
1600.0	38.942	-1.92579E+05	319.77	-7.04204E+05	22.989
1650.0	39.013	-1.90630E+05	320.97	-7.20223E+05	22.800
1700.0	39.086	-1.88678E+05	322.13	-7.36300E+05	22.623
1750.0	39.161	-1.86722E+05	323.26	-7.52435E+05	22.458
1800.0	39.238	-1.84762E+05	324.37	-7.68626E+05	22.304
1850.0	39.316	-1.82798E+05	325.45	-7.84872E+05	22.160
1900.0	39.397	-1.80830E+05	326.49	-8.01170E+05	22.025
1950.0	39.479	-1.78858E+05	327.52	-8.17521E+05	21.898
2000.0	39.563	-1.76882E+05	328.52	-8.33922E+05	21.779
2050.0	39.650	-1.74902E+05	329.50	-8.50373E+05	21.667
2100.0	39.738	-1.72917E+05	330.45	-8.66871E+05	21.562
2150.0	39.828	-1.70928E+05	331.39	-8.83418E+05	21.462
2200.0	39.920	-1.68934E+05	332.31	-9.00010E+05	21.368
2250.0	40.014	-1.66936E+05	333.21	-9.16648E+05	21.280
2300.0	40.110	-1.64933E+05	334.09	-9.33330E+05	21.196
2350.0	40.208	-1.62925E+05	334.95	-9.50056E+05	21.117
2400.0	40.308	-1.60912E+05	335.80	-9.66825E+05	21.042
2450.0	40.410	-1.58894E+05	336.63	-9.83636E+05	20.971
2500.0	40.514	-1.56871E+05	337.45	-1.00049E+06	20.904
2550.0	40.619	-1.54843E+05	338.25	-1.01738E+06	20.840
2600.0	40.727	-1.52809E+05	339.04	-1.03431E+06	20.779
2650.0	40.837	-1.50770E+05	339.82	-1.05128E+06	20.722
2700.0	40.949	-1.48725E+05	340.58	-1.06829E+06	20.667
2750.0	41.062	-1.46675E+05	341.33	-1.08534E+06	20.615
2800.0	41.178	-1.44619E+05	342.07	-1.10243E+06	20.566
2850.0	41.296	-1.42557E+05	342.80	-1.11955E+06	20.519
2900.0	41.418	-1.40489E+05	343.52	-1.13671E+06	20.474
2950.0	41.536	-1.38416E+05	344.23	-1.15390E+06	20.431
3000.0	41.666	-1.36336E+05	344.93	-1.17113E+06	20.391

CsBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.284	-2.06829E+05	267.53	-2.86593E+05	50.209
300.00	37.293	-2.06760E+05	267.76	-2.87088E+05	49.985
350.00	37.482	-2.04890E+05	273.52	-3.00624E+05	44.865
400.00	37.612	-2.03013E+05	278.54	-3.14428E+05	41.059
450.00	37.708	-2.01130E+05	282.97	-3.28468E+05	38.127
500.00	37.784	-1.99242E+05	286.95	-3.42718E+05	35.803
550.00	37.847	-1.97352E+05	290.56	-3.57157E+05	33.919
600.00	37.904	-1.95458E+05	293.85	-3.71768E+05	32.365
650.00	37.955	-1.93561E+05	296.89	-3.86538E+05	31.062
700.00	38.004	-1.91662E+05	299.70	-4.01453E+05	29.956
750.00	38.051	-1.89761E+05	302.33	-4.16505E+05	29.007
800.00	38.098	-1.87857E+05	304.78	-4.31683E+05	28.185
850.00	38.145	-1.85951E+05	307.09	-4.46981E+05	27.467
900.00	38.193	-1.84043E+05	309.28	-4.62390E+05	26.836
950.00	38.241	-1.82132E+05	311.34	-4.77906E+05	26.276
1000.0	38.291	-1.80219E+05	313.30	-4.93523E+05	25.778
1050.0	38.342	-1.78303E+05	315.17	-5.09235E+05	25.332
1100.0	38.395	-1.76384E+05	316.96	-5.25039E+05	24.931
1150.0	38.450	-1.74463E+05	318.67	-5.40930E+05	24.569
1200.0	38.506	-1.72539E+05	320.30	-5.56904E+05	24.241
1250.0	38.565	-1.70612E+05	321.88	-5.72959E+05	23.942
1300.0	38.625	-1.68683E+05	323.39	-5.89091E+05	23.669
1350.0	38.688	-1.66750E+05	324.85	-6.05297E+05	23.420
1400.0	38.753	-1.64814E+05	326.26	-6.21575E+05	23.191
1450.0	38.819	-1.62875E+05	327.62	-6.37922E+05	22.980
1500.0	38.888	-1.60932E+05	328.94	-6.54336E+05	22.785
1550.0	38.959	-1.58986E+05	330.21	-6.70815E+05	22.606
1600.0	39.033	-1.57036E+05	331.45	-6.87357E+05	22.439
1650.0	39.108	-1.55082E+05	332.65	-7.03960E+05	22.285
1700.0	39.186	-1.53125E+05	333.82	-7.20622E+05	22.141
1750.0	39.266	-1.51164E+05	334.96	-7.37341E+05	22.008
1800.0	39.348	-1.49198E+05	336.07	-7.54117E+05	21.883
1850.0	39.433	-1.47229E+05	337.15	-7.70948E+05	21.767
1900.0	39.520	-1.45255E+05	338.20	-7.87831E+05	21.658
1950.0	39.609	-1.43277E+05	339.23	-8.04767E+05	21.557
2000.0	39.700	-1.41294E+05	340.23	-8.21753E+05	21.461
2050.0	39.794	-1.39307E+05	341.21	-8.38790E+05	21.372
2100.0	39.890	-1.37315E+05	342.17	-8.55874E+05	21.288
2150.0	39.989	-1.35318E+05	343.11	-8.73006E+05	21.209
2200.0	40.090	-1.33316E+05	344.03	-8.90185E+05	21.135
2250.0	40.193	-1.31309E+05	344.93	-9.07409E+05	21.065
2300.0	40.298	-1.29297E+05	345.82	-9.24678E+05	21.000
2350.0	40.406	-1.27279E+05	346.69	-9.41991E+05	20.938
2400.0	40.516	-1.25256E+05	347.54	-9.59346E+05	20.879
2450.0	40.628	-1.23227E+05	348.37	-9.76744E+05	20.824
2500.0	40.743	-1.21193E+05	349.20	-9.94184E+05	20.772
2550.0	40.860	-1.19153E+05	350.00	-1.01166E+06	20.723
2600.0	40.980	-1.17107E+05	350.80	-1.02918E+06	20.676
2650.0	41.102	-1.15055E+05	351.58	-1.04674E+06	20.632
2700.0	41.226	-1.12997E+05	352.35	-1.06434E+06	20.590
2750.0	41.352	-1.10932E+05	353.11	-1.08198E+06	20.551
2800.0	41.481	-1.08862E+05	353.85	-1.09965E+06	20.514
2850.0	41.612	-1.06784E+05	354.59	-1.11736E+06	20.478
2900.0	41.749	-1.04700E+05	355.31	-1.13511E+06	20.445
2950.0	41.882	-1.02610E+05	356.03	-1.15289E+06	20.413
3000.0	42.030	-1.00512E+05	356.73	-1.17071E+06	20.383

Cs2CO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	123.85	-1.13490E+06	204.47	-1.19586E+06	209.50
300.00	124.24	-1.13467E+06	205.24	-1.19624E+06	208.28
350.00	133.21	-1.12822E+06	225.09	-1.20701E+06	180.13
400.00	140.29	-1.12138E+06	243.36	-1.21872E+06	159.15
450.00	146.28	-1.11421E+06	260.24	-1.23132E+06	142.92
500.00	151.58	-1.10676E+06	275.93	-1.24473E+06	130.03
550.00	156.44	-1.09906E+06	290.61	-1.25890E+06	119.56
600.00	161.00	-1.09113E+06	304.41	-1.27377E+06	110.89
650.00	165.34	-1.08297E+06	317.47	-1.28932E+06	103.61
700.00	169.53	-1.07459E+06	329.88	-1.30551E+06	97.416
750.00	173.61	-1.06601E+06	341.72	-1.32230E+06	92.091
800.00	177.59	-1.05723E+06	353.05	-1.33967E+06	87.470
850.00	181.51	-1.04826E+06	363.93	-1.35760E+06	83.426
900.00	185.38	-1.03908E+06	374.42	-1.37606E+06	79.863
950.00	189.21	-1.02972E+06	384.55	-1.39504E+06	76.703
1000.0	193.00	-1.02016E+06	394.35	-1.41451E+06	73.885
1050.0	196.76	-1.01042E+06	403.85	-1.43447E+06	71.359
1066.0	197.96	-1.00726E+06	406.84	-1.44095E+06	70.606
1066.0	205.00	-9.76262E+05	435.92	-1.44095E+06	70.606
1100.0	205.00	-9.69292E+05	442.36	-1.45588E+06	69.132
1150.0	205.00	-9.59042E+05	451.47	-1.47823E+06	67.142
1200.0	205.00	-9.48792E+05	460.19	-1.50102E+06	65.336
1250.0	205.00	-9.38542E+05	468.56	-1.52424E+06	63.693
1300.0	205.00	-9.28292E+05	476.60	-1.54787E+06	62.193
1350.0	205.00	-9.18042E+05	484.34	-1.57190E+06	60.819
1400.0	205.00	-9.07792E+05	491.79	-1.59630E+06	59.557
1450.0	205.00	-8.97542E+05	498.99	-1.62107E+06	58.396
1500.0	205.00	-8.87292E+05	505.94	-1.64620E+06	57.324
1550.0	205.00	-8.77042E+05	512.66	-1.67166E+06	56.333
1600.0	205.00	-8.66792E+05	519.17	-1.69746E+06	55.415
1650.0	205.00	-8.56542E+05	525.48	-1.72358E+06	54.563
1700.0	205.00	-8.46292E+05	531.60	-1.75001E+06	53.770
1750.0	205.00	-8.36042E+05	537.54	-1.77673E+06	53.031
1800.0	205.00	-8.25792E+05	543.31	-1.80376E+06	52.342
1850.0	205.00	-8.15542E+05	548.93	-1.83106E+06	51.699
1900.0	205.00	-8.05292E+05	554.40	-1.85865E+06	51.096
1950.0	205.00	-7.95042E+05	559.72	-1.88650E+06	50.532
2000.0	205.00	-7.84792E+05	564.91	-1.91462E+06	50.003
2050.0	205.00	-7.74542E+05	569.97	-1.94299E+06	49.507
2100.0	205.00	-7.64292E+05	574.91	-1.97161E+06	49.040
2150.0	205.00	-7.54042E+05	579.74	-2.00048E+06	48.601
2200.0	205.00	-7.43792E+05	584.45	-2.02958E+06	48.187
2250.0	205.00	-7.33542E+05	589.06	-2.05892E+06	47.798
2300.0	205.00	-7.23292E+05	593.56	-2.08849E+06	47.430
2350.0	205.00	-7.13042E+05	597.97	-2.11828E+06	47.083
2400.0	205.00	-7.02792E+05	602.29	-2.14828E+06	46.755
2450.0	205.00	-6.92542E+05	606.52	-2.17850E+06	46.445
2500.0	205.00	-6.82292E+05	610.66	-2.20893E+06	46.152
2550.0	205.00	-6.72042E+05	614.72	-2.23957E+06	45.875
2600.0	205.00	-6.61792E+05	618.70	-2.27041E+06	45.612
2650.0	205.00	-6.51542E+05	622.60	-2.30144E+06	45.363
2700.0	205.00	-6.41292E+05	626.43	-2.33266E+06	45.127
2750.0	205.00	-6.31042E+05	630.20	-2.36408E+06	44.903
2800.0	205.00	-6.20792E+05	633.89	-2.39568E+06	44.691
2850.0	205.00	-6.10542E+05	637.52	-2.42747E+06	44.489
2900.0	205.00	-6.00292E+05	641.08	-2.45943E+06	44.298
2950.0	205.00	-5.90042E+05	644.59	-2.49158E+06	44.116
3000.0	205.00	-5.79792E+05	648.03	-2.52389E+06	43.944

CsBO2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.580	-9.62000E+05	104.35	-9.93112E+05	173.98
300.00	80.789	-9.61851E+05	104.85	-9.93305E+05	172.95
350.00	85.568	-9.57685E+05	117.68	-9.98874E+05	149.07
400.00	89.190	-9.53313E+05	129.35	-1.00505E+06	131.24
450.00	92.139	-9.48778E+05	140.03	-1.01179E+06	117.44
500.00	94.670	-9.44106E+05	149.88	-1.01904E+06	106.46
550.00	96.928	-9.39315E+05	159.01	-1.02677E+06	97.512
600.00	99.000	-9.34416E+05	167.53	-1.03493E+06	90.097
650.00	100.94	-9.29417E+05	175.53	-1.04351E+06	83.856
700.00	102.79	-9.24324E+05	183.08	-1.05248E+06	78.535
750.00	104.56	-9.19140E+05	190.23	-1.06181E+06	73.949
800.00	106.29	-9.13868E+05	197.04	-1.07150E+06	69.960
850.00	107.97	-9.08512E+05	203.53	-1.08151E+06	66.460
900.00	109.61	-9.03072E+05	209.75	-1.09185E+06	63.367
950.00	111.24	-8.97551E+05	215.72	-1.10248E+06	60.617
1000.0	112.84	-8.91949E+05	221.46	-1.11341E+06	58.157
1005.0	113.00	-8.91384E+05	222.03	-1.11452E+06	57.926
1005.0	145.00	-8.64384E+05	248.89	-1.11452E+06	57.926
1050.0	145.00	-8.57859E+05	255.25	-1.12587E+06	56.007
1100.0	145.00	-8.50609E+05	261.99	-1.13880E+06	54.076
1150.0	145.00	-8.43359E+05	268.44	-1.15206E+06	52.327
1200.0	145.00	-8.36109E+05	274.61	-1.16564E+06	50.738
1250.0	145.00	-8.28859E+05	280.53	-1.17952E+06	49.288
1300.0	145.00	-8.21609E+05	286.21	-1.19369E+06	47.962
1350.0	145.00	-8.14359E+05	291.69	-1.20814E+06	46.744
1400.0	145.00	-8.07109E+05	296.96	-1.22285E+06	45.624
1450.0	145.00	-7.99859E+05	302.05	-1.23783E+06	44.590
1500.0	145.00	-7.92609E+05	306.96	-1.25305E+06	43.634
1550.0	145.00	-7.85359E+05	311.72	-1.26852E+06	42.748
1600.0	145.00	-7.78109E+05	316.32	-1.28422E+06	41.925
1650.0	145.00	-7.70859E+05	320.78	-1.30015E+06	41.158
1700.0	145.00	-7.63609E+05	325.11	-1.31630E+06	40.444
1750.0	145.00	-7.56359E+05	329.31	-1.33266E+06	39.777
1800.0	145.00	-7.49109E+05	333.40	-1.34923E+06	39.153
1850.0	145.00	-7.41859E+05	337.37	-1.36600E+06	38.568
1900.0	145.00	-7.34609E+05	341.24	-1.38296E+06	38.019
1950.0	145.00	-7.27359E+05	345.01	-1.40012E+06	37.504
2000.0	145.00	-7.20109E+05	348.68	-1.41746E+06	37.019
2050.0	145.00	-7.12859E+05	352.26	-1.43499E+06	36.563
2100.0	145.00	-7.05609E+05	355.75	-1.45269E+06	36.133
2150.0	145.00	-6.98359E+05	359.16	-1.47056E+06	35.727
2200.0	145.00	-6.91109E+05	362.50	-1.48860E+06	35.343
2250.0	145.00	-6.83859E+05	365.76	-1.50681E+06	34.980
2300.0	145.00	-6.76609E+05	368.94	-1.52518E+06	34.637
2350.0	145.00	-6.69359E+05	372.06	-1.54370E+06	34.312
2400.0	145.00	-6.62109E+05	375.11	-1.56238E+06	34.003
2450.0	145.00	-6.54859E+05	378.10	-1.58121E+06	33.711
2500.0	145.00	-6.47609E+05	381.03	-1.60019E+06	33.433
2550.0	145.00	-6.40359E+05	383.90	-1.61931E+06	33.169
2600.0	145.00	-6.33109E+05	386.72	-1.63858E+06	32.919
2650.0	145.00	-6.25859E+05	389.48	-1.65799E+06	32.680
2700.0	145.00	-6.18609E+05	392.19	-1.67753E+06	32.453
2750.0	145.00	-6.11359E+05	394.85	-1.69720E+06	32.237
2800.0	145.00	-6.04109E+05	397.47	-1.71701E+06	32.030
2850.0	145.00	-5.96859E+05	400.03	-1.73695E+06	31.834
2900.0	145.00	-5.89609E+05	402.55	-1.75701E+06	31.646
2950.0	145.00	-5.82359E+05	405.03	-1.77720E+06	31.468
3000.0	145.00	-5.75109E+05	407.47	-1.79752E+06	31.297

CsBO2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.417	-6.86902E+05	315.58	-7.80992E+05	136.82
300.00	59.528	-6.86792E+05	315.95	-7.81576E+05	136.08
350.00	62.159	-6.83747E+05	325.33	-7.97613E+05	119.03
400.00	64.301	-6.80584E+05	333.77	-8.14094E+05	106.31
450.00	66.126	-6.77322E+05	341.46	-8.30977E+05	96.455
500.00	67.722	-6.73975E+05	348.51	-8.48229E+05	88.612
550.00	69.141	-6.70553E+05	355.03	-8.65819E+05	82.227
600.00	70.414	-6.67064E+05	361.10	-8.83724E+05	76.933
650.00	71.559	-6.63514E+05	366.78	-9.01923E+05	72.478
700.00	72.589	-6.59910E+05	372.12	-9.20397E+05	68.679
750.00	73.514	-6.56257E+05	377.16	-9.39130E+05	65.405
800.00	74.338	-6.52560E+05	381.94	-9.58109E+05	62.557
850.00	75.067	-6.48825E+05	386.47	-9.77320E+05	60.057
900.00	75.699	-6.45055E+05	390.77	-9.96752E+05	57.848
950.00	76.340	-6.41254E+05	394.88	-1.01639E+06	55.884
1000.0	76.894	-6.37422E+05	398.81	-1.03624E+06	54.126
1050.0	77.376	-6.33565E+05	402.58	-1.05627E+06	52.545
1100.0	77.799	-6.29686E+05	406.19	-1.07649E+06	51.117
1150.0	78.172	-6.25786E+05	409.65	-1.09689E+06	49.821
1200.0	78.505	-6.21869E+05	412.99	-1.11746E+06	48.640
1250.0	78.803	-6.17936E+05	416.20	-1.13819E+06	47.561
1300.0	79.071	-6.13989E+05	419.30	-1.15907E+06	46.571
1350.0	79.314	-6.10030E+05	422.28	-1.18011E+06	45.660
1400.0	79.534	-6.06058E+05	425.17	-1.20130E+06	44.820
1450.0	79.736	-6.02077E+05	427.97	-1.22263E+06	44.043
1500.0	79.921	-5.98085E+05	430.67	-1.24410E+06	43.322
1550.0	80.091	-5.94085E+05	433.30	-1.26570E+06	42.653
1600.0	80.248	-5.90076E+05	435.84	-1.28742E+06	42.029
1650.0	80.393	-5.86060E+05	438.31	-1.30928E+06	41.447
1700.0	80.529	-5.82037E+05	440.72	-1.33125E+06	40.903
1750.0	80.655	-5.78007E+05	443.05	-1.35335E+06	40.394
1800.0	80.772	-5.73972E+05	445.33	-1.37556E+06	39.917
1850.0	80.883	-5.69930E+05	447.54	-1.39788E+06	39.468
1900.0	80.986	-5.65884E+05	449.70	-1.42031E+06	39.046
1950.0	81.084	-5.61832E+05	451.80	-1.44285E+06	38.649
2000.0	81.175	-5.57775E+05	453.86	-1.46549E+06	38.274
2050.0	81.262	-5.53714E+05	455.86	-1.48823E+06	37.920
2100.0	81.344	-5.49649E+05	457.82	-1.51108E+06	37.585
2150.0	81.421	-5.45580E+05	459.74	-1.53402E+06	37.268
2200.0	81.494	-5.41507E+05	461.61	-1.55705E+06	36.968
2250.0	81.564	-5.37431E+05	463.44	-1.58018E+06	36.683
2300.0	81.630	-5.33351E+05	465.24	-1.60339E+06	36.413
2350.0	81.693	-5.29268E+05	466.99	-1.62670E+06	36.157
2400.0	81.752	-5.25182E+05	468.71	-1.65009E+06	35.912
2450.0	81.809	-5.21093E+05	470.40	-1.67357E+06	35.680
2500.0	81.863	-5.17001E+05	472.05	-1.69713E+06	35.459
2550.0	81.915	-5.12906E+05	473.67	-1.72077E+06	35.248
2600.0	81.964	-5.08809E+05	475.27	-1.74450E+06	35.047
2650.0	82.011	-5.04710E+05	476.83	-1.76830E+06	34.854
2700.0	82.055	-5.00608E+05	478.36	-1.79218E+06	34.671
2750.0	82.098	-4.96504E+05	479.87	-1.81614E+06	34.496
2800.0	82.139	-4.92398E+05	481.35	-1.84017E+06	34.328
2850.0	82.177	-4.88291E+05	482.80	-1.86427E+06	34.167
2900.0	82.214	-4.84181E+05	484.23	-1.88845E+06	34.014
2950.0	82.249	-4.80069E+05	485.64	-1.91269E+06	33.867
3000.0	82.283	-4.75956E+05	487.02	-1.93701E+06	33.725

Cu

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.447	0.00000E+00	33.150	-9883.7	1.7315
300.00	24.471	45.249	33.301	-9945.1	1.7316
350.00	25.020	1283.1	37.117	-11708.	1.7472
400.00	25.458	2545.4	40.487	-13649.	1.7824
450.00	25.828	3827.8	43.508	-15751.	1.8282
500.00	26.156	5127.6	46.246	-17995.	1.8799
550.00	26.453	6442.9	48.753	-20371.	1.9347
600.00	26.730	7772.5	51.067	-22868.	1.9907
650.00	26.990	9115.6	53.217	-25475.	2.0472
700.00	27.238	10471.	55.226	-28187.	2.1033
750.00	27.475	11839.	57.113	-30996.	2.1587
800.00	27.703	13219.	58.894	-33896.	2.2132
850.00	27.924	14609.	60.580	-36884.	2.2665
900.00	28.137	16011.	62.182	-39953.	2.3188
950.00	28.344	17423.	63.709	-43101.	2.3698
1000.0	28.546	18845.	65.168	-46323.	2.4196
1050.0	28.742	20277.	66.566	-49616.	2.4682
1100.0	28.933	21719.	67.907	-52979.	2.5157
1150.0	29.118	23171.	69.197	-56406.	2.5620
1200.0	29.299	24631.	70.440	-59897.	2.6072
1250.0	29.476	26101.	71.640	-63450.	2.6513
1300.0	29.648	27579.	72.800	-67061.	2.6945
1350.0	29.815	29065.	73.922	-70729.	2.7366
1357.8	29.841	29297.	74.093	-71304.	2.7431
1357.8	31.380	42560.	83.861	-71304.	2.7431
1400.0	31.380	43885.	84.822	-74866.	2.7932
1450.0	31.380	45454.	85.924	-79135.	2.8507
1500.0	31.380	47023.	86.987	-83458.	2.9062
1550.0	31.380	48592.	88.016	-87833.	2.9599
1600.0	31.380	50161.	89.013	-92259.	3.0119
1650.0	31.380	51730.	89.978	-96734.	3.0623
1700.0	31.380	53299.	90.915	-1.01256E+05	3.1111
1750.0	31.380	54868.	91.825	-1.05825E+05	3.1586
1800.0	31.380	56437.	92.709	-1.10438E+05	3.2047
1850.0	31.380	58006.	93.568	-1.15095E+05	3.2496
1900.0	31.380	59575.	94.405	-1.19795E+05	3.2933
1950.0	31.380	61144.	95.220	-1.24535E+05	3.3358
2000.0	31.380	62713.	96.015	-1.29316E+05	3.3773
2050.0	31.380	64282.	96.790	-1.34136E+05	3.4178
2100.0	31.380	65851.	97.546	-1.38995E+05	3.4572
2150.0	31.380	67420.	98.284	-1.43891E+05	3.4958
2200.0	31.380	68989.	99.006	-1.48823E+05	3.5334
2250.0	31.380	70558.	99.711	-1.53791E+05	3.5702
2300.0	31.380	72127.	100.40	-1.58794E+05	3.6062
2350.0	31.380	73696.	101.08	-1.63831E+05	3.6415
2400.0	31.380	75265.	101.74	-1.68901E+05	3.6759
2450.0	31.380	76834.	102.38	-1.74004E+05	3.7097
2500.0	31.380	78403.	103.02	-1.79139E+05	3.7428
2550.0	31.380	79972.	103.64	-1.84306E+05	3.7753
2600.0	31.380	81541.	104.25	-1.89503E+05	3.8071
2650.0	31.380	83110.	104.85	-1.94730E+05	3.8383
2700.0	31.380	84679.	105.43	-1.99987E+05	3.8689
2750.0	31.380	86248.	106.01	-2.05273E+05	3.8989
2800.0	31.380	87817.	106.57	-2.10588E+05	3.9285
2850.0	31.380	89386.	107.13	-2.15931E+05	3.9575
2900.0	31.380	90955.	107.67	-2.21301E+05	3.9860
2950.0	31.380	92524.	108.21	-2.26698E+05	4.0140
3000.0	31.380	94093.	108.74	-2.32122E+05	4.0415

CuCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.263	76304.	237.10	5612.9	-0.98334
300.00	35.291	76369.	237.32	5174.1	-0.90087
350.00	35.892	78150.	242.81	-6832.1	1.0196
400.00	36.289	79955.	247.63	-19095.	2.4935
450.00	36.569	81777.	251.92	-31586.	3.6663
500.00	36.776	83611.	255.78	-44280.	4.6258
550.00	36.937	85454.	259.29	-57158.	5.4283
600.00	37.066	87304.	262.51	-70205.	6.1117
650.00	37.173	89160.	265.49	-83406.	6.7024
700.00	37.264	91021.	268.24	-96750.	7.2194
750.00	37.344	92886.	270.82	-1.10227E+05	7.6767
800.00	37.416	94755.	273.23	-1.23829E+05	8.0850
850.00	37.482	96628.	275.50	-1.37547E+05	8.4524
900.00	37.543	98503.	277.64	-1.51377E+05	8.7854
950.00	37.602	1.00382E+05	279.68	-1.65310E+05	9.0892
1000.0	37.657	1.02263E+05	281.61	-1.79343E+05	9.3677
1050.0	37.711	1.04148E+05	283.44	-1.93469E+05	9.6243
1100.0	37.764	1.06035E+05	285.20	-2.07686E+05	9.8619
1150.0	37.816	1.07924E+05	286.88	-2.21988E+05	10.083
1200.0	37.867	1.09816E+05	288.49	-2.36372E+05	10.289
1250.0	37.919	1.11711E+05	290.04	-2.50836E+05	10.482
1300.0	37.970	1.13608E+05	291.53	-2.65375E+05	10.663
1350.0	38.022	1.15508E+05	292.96	-2.79988E+05	10.833
1400.0	38.073	1.17410E+05	294.34	-2.94670E+05	10.994
1450.0	38.126	1.19315E+05	295.68	-3.09421E+05	11.146
1500.0	38.179	1.21223E+05	296.97	-3.24238E+05	11.291
1550.0	38.232	1.23133E+05	298.23	-3.39118E+05	11.428
1600.0	38.286	1.25046E+05	299.44	-3.54060E+05	11.559
1650.0	38.341	1.26962E+05	300.62	-3.69061E+05	11.683
1700.0	38.397	1.28880E+05	301.77	-3.84121E+05	11.802
1750.0	38.454	1.30801E+05	302.88	-3.99237E+05	11.916
1800.0	38.511	1.32726E+05	303.96	-4.14408E+05	12.026
1850.0	38.570	1.34653E+05	305.02	-4.29633E+05	12.130
1900.0	38.631	1.36583E+05	306.05	-4.44910E+05	12.231
1950.0	38.709	1.38516E+05	307.05	-4.60238E+05	12.328
2000.0	38.800	1.40454E+05	308.03	-4.75615E+05	12.421
2050.0	38.904	1.42396E+05	308.99	-4.91041E+05	12.512
2100.0	39.022	1.44344E+05	309.93	-5.06514E+05	12.599
2150.0	39.155	1.46299E+05	310.85	-5.22034E+05	12.683
2200.0	39.304	1.48260E+05	311.75	-5.37599E+05	12.764
2250.0	39.470	1.50229E+05	312.64	-5.53209E+05	12.843
2300.0	39.653	1.52207E+05	313.51	-5.68862E+05	12.919
2350.0	39.854	1.54195E+05	314.36	-5.84559E+05	12.993
2400.0	40.072	1.56193E+05	315.20	-6.00299E+05	13.065
2450.0	40.310	1.58202E+05	316.03	-6.16080E+05	13.135
2500.0	40.566	1.60224E+05	316.85	-6.31902E+05	13.203
2550.0	40.842	1.62259E+05	317.66	-6.47764E+05	13.269
2600.0	41.137	1.64309E+05	318.45	-6.63667E+05	13.333
2650.0	41.452	1.66373E+05	319.24	-6.79610E+05	13.396
2700.0	41.788	1.68454E+05	320.02	-6.95591E+05	13.457
2750.0	42.144	1.70553E+05	320.79	-7.11611E+05	13.516
2800.0	42.521	1.72669E+05	321.55	-7.27670E+05	13.574
2850.0	42.918	1.74805E+05	322.31	-7.43766E+05	13.631
2900.0	43.337	1.76961E+05	323.06	-7.59900E+05	13.687
2950.0	43.777	1.79139E+05	323.80	-7.76071E+05	13.741
3000.0	44.238	1.81339E+05	324.54	-7.92280E+05	13.794

CuCl2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	71.880	-2.17900E+05	108.07	-2.50121E+05	43.819
300.00	71.998	-2.17767E+05	108.51	-2.50321E+05	43.584
350.00	74.569	-2.14098E+05	119.82	-2.56035E+05	38.210
400.00	76.338	-2.10323E+05	129.90	-2.62283E+05	34.250
450.00	77.641	-2.06472E+05	138.97	-2.69009E+05	31.225
500.00	78.654	-2.02564E+05	147.20	-2.76166E+05	28.850
550.00	79.479	-1.98610E+05	154.74	-2.83717E+05	26.945
600.00	80.175	-1.94618E+05	161.69	-2.91630E+05	25.388
650.00	80.779	-1.90594E+05	168.13	-2.99878E+05	24.098
675.00	81.056	-1.88571E+05	171.18	-3.04119E+05	23.534
675.00	82.400	-1.87871E+05	172.22	-3.04119E+05	23.534
700.00	82.400	-1.85811E+05	175.22	-3.08462E+05	23.017
750.00	82.400	-1.81691E+05	180.90	-3.17367E+05	22.103
800.00	82.400	-1.77571E+05	186.22	-3.26546E+05	21.321
850.00	82.400	-1.73451E+05	191.21	-3.35984E+05	20.647
871.00	82.400	-1.71721E+05	193.23	-3.40020E+05	20.391
871.00	100.00	-1.56721E+05	210.45	-3.40020E+05	20.391
900.00	100.00	-1.53821E+05	213.72	-3.46171E+05	20.091
950.00	100.00	-1.48821E+05	219.13	-3.56994E+05	19.628
1000.0	100.00	-1.43821E+05	224.26	-3.68079E+05	19.226
1050.0	100.00	-1.38821E+05	229.14	-3.79415E+05	18.874
1100.0	100.00	-1.33821E+05	233.79	-3.90989E+05	18.566
1150.0	100.00	-1.28821E+05	238.23	-4.02791E+05	18.295
1200.0	100.00	-1.23821E+05	242.49	-4.14810E+05	18.056
1250.0	100.00	-1.18821E+05	246.57	-4.27037E+05	17.844
1300.0	100.00	-1.13821E+05	250.50	-4.39464E+05	17.657
1350.0	100.00	-1.08821E+05	254.27	-4.52084E+05	17.492
1400.0	100.00	-1.03821E+05	257.91	-4.64889E+05	17.345
1450.0	100.00	-98821.	261.42	-4.77872E+05	17.214
1500.0	100.00	-93821.	264.81	-4.91028E+05	17.099
1550.0	100.00	-88821.	268.08	-5.04351E+05	16.996
1600.0	100.00	-83821.	271.26	-5.17835E+05	16.905
1650.0	100.00	-78821.	274.34	-5.31475E+05	16.825
1700.0	100.00	-73821.	277.32	-5.45267E+05	16.754
1750.0	100.00	-68821.	280.22	-5.59206E+05	16.691
1800.0	100.00	-63821.	283.04	-5.73288E+05	16.636
1850.0	100.00	-58821.	285.78	-5.87509E+05	16.588
1900.0	100.00	-53821.	288.44	-6.01864E+05	16.546
1950.0	100.00	-48821.	291.04	-6.16352E+05	16.510
2000.0	100.00	-43821.	293.57	-6.30967E+05	16.479
2050.0	100.00	-38821.	296.04	-6.45708E+05	16.452
2100.0	100.00	-33821.	298.45	-6.60571E+05	16.430
2150.0	100.00	-28821.	300.81	-6.75552E+05	16.412
2200.0	100.00	-23821.	303.10	-6.90650E+05	16.398
2250.0	100.00	-18821.	305.35	-7.05862E+05	16.386
2300.0	100.00	-13821.	307.55	-7.21185E+05	16.378
2350.0	100.00	-8820.7	309.70	-7.36616E+05	16.373
2400.0	100.00	-3820.7	311.81	-7.52154E+05	16.370
2450.0	100.00	1179.3	313.87	-7.67796E+05	16.369
2500.0	100.00	6179.3	315.89	-7.83540E+05	16.371
2550.0	100.00	11179.	317.87	-7.99384E+05	16.374
2600.0	100.00	16179.	319.81	-8.15326E+05	16.380
2650.0	100.00	21179.	321.71	-8.31364E+05	16.387
2700.0	100.00	26179.	323.58	-8.47497E+05	16.395
2750.0	100.00	31179.	325.42	-8.63722E+05	16.405
2800.0	100.00	36179.	327.22	-8.80038E+05	16.417
2850.0	100.00	41179.	328.99	-8.96444E+05	16.430
2900.0	100.00	46179.	330.73	-9.12937E+05	16.443
2950.0	100.00	51179.	332.44	-9.29516E+05	16.458
3000.0	100.00	56179.	334.12	-9.46180E+05	16.474

CuBr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.890	-1.05000E+05	96.100	-1.33652E+05	23.415
300.00	54.917	-1.04898E+05	96.440	-1.33830E+05	23.301
350.00	55.644	-1.02136E+05	104.96	-1.38870E+05	20.725
400.00	57.418	-99316.	112.48	-1.44309E+05	18.844
450.00	61.169	-96361.	119.44	-1.50109E+05	17.424
500.00	67.386	-93158.	126.18	-1.56250E+05	16.323
550.00	76.346	-89577.	133.00	-1.62729E+05	15.454
600.00	88.219	-85475.	140.13	-1.69556E+05	14.761
650.00	103.11	-80704.	147.76	-1.76751E+05	14.203
657.00	105.44	-79975.	148.88	-1.77789E+05	14.135
657.00	74.829	-75374.	155.88	-1.77789E+05	14.135
700.00	73.628	-72183.	160.59	-1.84594E+05	13.774
741.00	72.483	-69187.	164.75	-1.91265E+05	13.482
741.00	83.000	-67037.	167.65	-1.91265E+05	13.482
750.00	83.000	-66290.	168.65	-1.92778E+05	13.426
759.00	83.000	-65543.	169.64	-1.94300E+05	13.371
759.00	64.330	-60443.	176.36	-1.94300E+05	13.371
800.00	62.648	-57841.	179.70	-2.01600E+05	13.163
850.00	60.978	-54752.	183.44	-2.10680E+05	12.947
900.00	59.643	-51738.	186.89	-2.19940E+05	12.765
950.00	58.572	-48784.	190.09	-2.29365E+05	12.611
1000.0	57.716	-45877.	193.07	-2.38945E+05	12.481
1050.0	56.933	-43012.	195.86	-2.48669E+05	12.370
1100.0	56.444	-40179.	198.50	-2.58529E+05	12.276
1150.0	56.182	-37364.	201.00	-2.68517E+05	12.196
1200.0	56.093	-34558.	203.39	-2.78627E+05	12.128
1250.0	56.134	-31753.	205.68	-2.88854E+05	12.070
1300.0	56.270	-28943.	207.89	-2.99194E+05	12.021
1350.0	56.471	-26125.	210.01	-3.09641E+05	11.980
1400.0	56.714	-23295.	212.07	-3.20194E+05	11.946
1450.0	56.979	-20453.	214.07	-3.30847E+05	11.918
1500.0	57.250	-17597.	216.00	-3.41599E+05	11.895
1550.0	57.500	-14728.	217.88	-3.52447E+05	11.877
1600.0	57.750	-11847.	219.71	-3.63387E+05	11.863
1650.0	58.000	-8953.5	221.49	-3.74417E+05	11.853
1700.0	58.250	-6047.2	223.23	-3.85535E+05	11.846
1750.0	58.500	-3128.5	224.92	-3.96739E+05	11.842
1800.0	58.750	-197.22	226.57	-4.08026E+05	11.840
1850.0	59.000	2746.5	228.18	-4.19396E+05	11.841
1900.0	59.250	5702.8	229.76	-4.30844E+05	11.844
1950.0	59.500	8671.5	231.30	-4.42371E+05	11.849
2000.0	59.750	11653.	232.81	-4.53974E+05	11.856
2050.0	60.000	14647.	234.29	-4.65652E+05	11.865
2100.0	60.250	17653.	235.74	-4.77403E+05	11.874
2150.0	60.500	20672.	237.16	-4.89226E+05	11.886
2200.0	60.750	23703.	238.56	-5.01119E+05	11.898
2250.0	61.000	26747.	239.92	-5.13081E+05	11.911
2300.0	61.250	29803.	241.27	-5.25111E+05	11.925
2350.0	61.500	32872.	242.59	-5.37207E+05	11.940
2400.0	61.750	35953.	243.88	-5.49369E+05	11.956
2450.0	62.000	39047.	245.16	-5.61595E+05	11.973
2500.0	62.250	42153.	246.41	-5.73884E+05	11.990
2550.0	62.500	45272.	247.65	-5.86236E+05	12.008
2600.0	62.750	48403.	248.87	-5.98649E+05	12.027
2650.0	63.000	51547.	250.06	-6.11122E+05	12.046
2700.0	63.250	54703.	251.24	-6.23655E+05	12.065
2750.0	63.500	57872.	252.41	-6.36247E+05	12.085
2800.0	63.750	61053.	253.55	-6.48896E+05	12.105
2850.0	64.000	64247.	254.68	-6.61602E+05	12.125
2900.0	64.250	67453.	255.80	-6.74364E+05	12.146

CuBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.148	1.07235E+05	248.30	33203.	-5.8170
300.00	36.167	1.07302E+05	248.53	32744.	-5.7011
350.00	36.571	1.09121E+05	254.13	20174.	-3.0107
400.00	36.837	1.10957E+05	259.04	7342.2	-0.95876
450.00	37.023	1.12804E+05	263.39	-5720.5	0.66400
500.00	37.160	1.14658E+05	267.29	-18989.	1.9837
550.00	37.266	1.16519E+05	270.84	-32444.	3.0812
600.00	37.352	1.18385E+05	274.09	-46068.	4.0105
650.00	37.424	1.20254E+05	277.08	-59849.	4.8094
700.00	37.486	1.22127E+05	279.86	-73773.	5.5049
750.00	37.543	1.24002E+05	282.44	-87831.	6.1169
800.00	37.595	1.25881E+05	284.87	-1.02015E+05	6.6607
850.00	37.644	1.27762E+05	287.15	-1.16316E+05	7.1477
900.00	37.692	1.29645E+05	289.30	-1.30727E+05	7.5870
950.00	37.738	1.31531E+05	291.34	-1.45244E+05	7.9859
1000.0	37.785	1.33419E+05	293.28	-1.59860E+05	8.3500
1050.0	37.831	1.35310E+05	295.12	-1.74570E+05	8.6842
1100.0	37.879	1.37202E+05	296.88	-1.89371E+05	8.9922
1150.0	37.926	1.39097E+05	298.57	-2.04258E+05	9.2774
1200.0	37.975	1.40995E+05	300.18	-2.19227E+05	9.5424
1250.0	38.026	1.42895E+05	301.74	-2.34275E+05	9.7896
1300.0	38.077	1.44798E+05	303.23	-2.49399E+05	10.021
1350.0	38.131	1.46703E+05	304.67	-2.64597E+05	10.238
1400.0	38.185	1.48611E+05	306.05	-2.79865E+05	10.442
1450.0	38.242	1.50521E+05	307.40	-2.95202E+05	10.634
1500.0	38.300	1.52435E+05	308.69	-3.10604E+05	10.816
1550.0	38.360	1.54351E+05	309.95	-3.26070E+05	10.988
1600.0	38.422	1.56271E+05	311.17	-3.41598E+05	11.152
1650.0	38.486	1.58194E+05	312.35	-3.57186E+05	11.307
1700.0	38.552	1.60120E+05	313.50	-3.72833E+05	11.455
1750.0	38.620	1.62049E+05	314.62	-3.88536E+05	11.597
1800.0	38.691	1.63982E+05	315.71	-4.04294E+05	11.732
1850.0	38.772	1.65918E+05	316.77	-4.20106E+05	11.861
1900.0	38.871	1.67859E+05	317.81	-4.35971E+05	11.985
1950.0	38.987	1.69805E+05	318.82	-4.51886E+05	12.104
2000.0	39.121	1.71758E+05	319.81	-4.67852E+05	12.219
2050.0	39.272	1.73718E+05	320.77	-4.83867E+05	12.329
2100.0	39.441	1.75686E+05	321.72	-4.99929E+05	12.435
2150.0	39.628	1.77662E+05	322.65	-5.16038E+05	12.537
2200.0	39.831	1.79649E+05	323.56	-5.32194E+05	12.636
2250.0	40.052	1.81646E+05	324.46	-5.48395E+05	12.731
2300.0	40.291	1.83654E+05	325.35	-5.64640E+05	12.823
2350.0	40.547	1.85675E+05	326.21	-5.80929E+05	12.912
2400.0	40.820	1.87709E+05	327.07	-5.97261E+05	12.999
2450.0	41.111	1.89757E+05	327.92	-6.13636E+05	13.083
2500.0	41.418	1.91820E+05	328.75	-6.30052E+05	13.164
2550.0	41.744	1.93899E+05	329.57	-6.46511E+05	13.243
2600.0	42.086	1.95995E+05	330.39	-6.63010E+05	13.320
2650.0	42.446	1.98108E+05	331.19	-6.79549E+05	13.394
2700.0	42.824	2.00240E+05	331.99	-6.96129E+05	13.467
2750.0	43.218	2.02391E+05	332.78	-7.12748E+05	13.538
2800.0	43.630	2.04562E+05	333.56	-7.29406E+05	13.607
2850.0	44.059	2.06754E+05	334.34	-7.46104E+05	13.674
2900.0	44.506	2.08968E+05	335.11	-7.62840E+05	13.740
2950.0	44.969	2.11205E+05	335.87	-7.79614E+05	13.804
3000.0	45.451	2.13466E+05	336.63	-7.96427E+05	13.867

(CuBr)₃<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	126.82	-1.48561E+05	458.07	-2.85133E+05	49.953
300.00	126.90	-1.48326E+05	458.85	-2.85981E+05	49.792
350.00	128.50	-1.41938E+05	478.54	-3.09428E+05	46.178
400.00	129.54	-1.35485E+05	495.77	-3.33794E+05	43.588
450.00	130.26	-1.28989E+05	511.07	-3.58973E+05	41.667
500.00	130.77	-1.22463E+05	524.83	-3.84876E+05	40.207
550.00	131.15	-1.15915E+05	537.31	-4.11434E+05	39.074
600.00	131.44	-1.09350E+05	548.73	-4.38589E+05	38.182
650.00	131.66	-1.02772E+05	559.26	-4.66293E+05	37.471
700.00	131.84	-96184.	569.03	-4.94503E+05	36.899
750.00	131.99	-89588.	578.13	-5.23184E+05	36.437
800.00	132.11	-82986.	586.65	-5.52306E+05	36.061
850.00	132.21	-76378.	594.66	-5.81841E+05	35.755
900.00	132.29	-69766.	602.22	-6.11765E+05	35.505
950.00	132.36	-63149.	609.38	-6.42056E+05	35.302
1000.0	132.42	-56530.	616.17	-6.72696E+05	35.137
1050.0	132.47	-49907.	622.63	-7.03667E+05	35.005
1100.0	132.52	-43283.	628.79	-7.34954E+05	34.899
1150.0	132.56	-36656.	634.68	-7.66542E+05	34.817
1200.0	132.59	-30027.	640.33	-7.98418E+05	34.753
1250.0	132.63	-23396.	645.74	-8.30571E+05	34.707
1300.0	132.65	-16764.	650.94	-8.62989E+05	34.674
1350.0	132.68	-10131.	655.95	-8.95662E+05	34.654
1400.0	132.70	-3496.2	660.77	-9.28581E+05	34.645
1450.0	132.72	3139.5	665.43	-9.61737E+05	34.645
1500.0	132.74	9776.1	669.93	-9.95121E+05	34.652
1550.0	132.76	16414.	674.28	-1.02873E+06	34.667
1600.0	132.77	23052.	678.50	-1.06255E+06	34.688
1650.0	132.79	29691.	682.59	-1.09658E+06	34.714
1700.0	132.80	36331.	686.55	-1.13080E+06	34.744
1750.0	132.81	42971.	690.40	-1.16523E+06	34.779
1800.0	132.83	49612.	694.14	-1.19984E+06	34.818
1850.0	132.84	56254.	697.78	-1.23464E+06	34.859
1900.0	132.85	62896.	701.32	-1.26962E+06	34.903
1950.0	132.86	69538.	704.77	-1.30477E+06	34.950
2000.0	132.86	76181.	708.14	-1.34009E+06	34.999
2050.0	132.87	82825.	711.42	-1.37558E+06	35.049
2100.0	132.88	89469.	714.62	-1.41124E+06	35.102
2150.0	132.89	96113.	717.75	-1.44704E+06	35.155
2200.0	132.89	1.02757E+05	720.80	-1.48301E+06	35.210
2250.0	132.90	1.09402E+05	723.79	-1.51912E+06	35.266
2300.0	132.91	1.16047E+05	726.71	-1.55539E+06	35.323
2350.0	132.91	1.22693E+05	729.57	-1.59179E+06	35.381
2400.0	132.92	1.29338E+05	732.37	-1.62834E+06	35.439
2450.0	132.92	1.35984E+05	735.11	-1.66503E+06	35.498
2500.0	132.93	1.42631E+05	737.79	-1.70185E+06	35.557
2550.0	132.93	1.49277E+05	740.43	-1.73881E+06	35.617
2600.0	132.94	1.55924E+05	743.01	-1.77589E+06	35.677
2650.0	132.94	1.62571E+05	745.54	-1.81311E+06	35.738
2700.0	132.94	1.69218E+05	748.02	-1.85045E+06	35.798
2750.0	132.95	1.75865E+05	750.46	-1.88791E+06	35.859
2800.0	132.95	1.82512E+05	752.86	-1.92549E+06	35.920
2850.0	132.95	1.89160E+05	755.21	-1.96319E+06	35.980
2900.0	132.96	1.95808E+05	757.52	-2.00101E+06	36.041
2950.0	132.96	2.02456E+05	759.80	-2.03895E+06	36.102
3000.0	132.96	2.09104E+05	762.03	-2.07699E+06	36.163

CuBr2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.000	-1.38500E+05	130.00	-1.77260E+05	31.054
300.00	75.100	-1.38361E+05	130.46	-1.77500E+05	30.905
350.00	77.286	-1.34548E+05	142.22	-1.84324E+05	27.508
400.00	78.784	-1.30644E+05	152.64	-1.91700E+05	25.033
450.00	79.882	-1.26676E+05	161.99	-1.99570E+05	23.165
500.00	80.733	-1.22660E+05	170.45	-2.07884E+05	21.717
550.00	81.422	-1.18605E+05	178.18	-2.16602E+05	20.571
600.00	82.000	-1.14519E+05	185.29	-2.25691E+05	19.648
650.00	82.500	-1.10407E+05	191.87	-2.35122E+05	18.894
700.00	82.944	-1.06270E+05	198.00	-2.44871E+05	18.272
750.00	83.346	-1.02113E+05	203.74	-2.54916E+05	17.753
800.00	83.717	-97936.	209.13	-2.65239E+05	17.318
850.00	84.062	-93742.	214.21	-2.75823E+05	16.950
900.00	84.389	-89530.	219.03	-2.86655E+05	16.637
950.00	84.701	-85303.	223.60	-2.97722E+05	16.369
1000.0	85.000	-81060.	227.95	-3.09012E+05	16.141

CuCN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	61.034	94977.	90.002	68143.	-11.938
300.00	61.172	95090.	90.380	67976.	-11.835
350.00	64.311	98231.	100.06	63211.	-9.4335
400.00	66.694	1.01509E+05	108.81	57986.	-7.5720
450.00	68.639	1.04893E+05	116.78	52343.	-6.0757
500.00	70.310	1.08368E+05	124.10	46319.	-4.8388
550.00	71.803	1.11921E+05	130.87	39942.	-3.7933
600.00	73.174	1.15546E+05	137.18	33239.	-2.8937
650.00	74.459	1.19237E+05	143.09	26231.	-2.1079
700.00	75.682	1.22991E+05	148.65	18936.	-1.4130
750.00	76.858	1.26805E+05	153.91	11371.	-0.79194
800.00	77.999	1.30676E+05	158.91	3549.7	-0.23177
850.00	79.113	1.34604E+05	163.67	-4515.7	0.27749
900.00	80.205	1.38587E+05	168.22	-12814.	0.74368
950.00	81.280	1.42625E+05	172.59	-21335.	1.1730
1000.0	82.342	1.46715E+05	176.79	-30070.	1.5707

Dy

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.837	0.00000E+00	74.956	-22348.	3.9152
300.00	27.824	51.486	75.128	-22487.	3.9152
350.00	27.638	1436.7	79.399	-26353.	3.9329
400.00	27.685	2819.1	83.091	-30417.	3.9720
450.00	27.847	4207.1	86.360	-34655.	4.0226
500.00	28.065	5604.8	89.305	-39048.	4.0792
550.00	28.304	7013.9	91.991	-43581.	4.1389
600.00	28.576	8435.8	94.466	-48243.	4.1999
650.00	28.867	9871.8	96.764	-53025.	4.2610
700.00	29.177	11323.	98.915	-57917.	4.3217
750.00	29.507	12790.	100.94	-62914.	4.3816
800.00	29.855	14274.	102.85	-68010.	4.4405
850.00	30.222	15776.	104.68	-73198.	4.4981
900.00	30.608	17296.	106.41	-78476.	4.5545
950.00	31.012	18837.	108.08	-83838.	4.6096
1000.0	31.435	20398.	109.68	-89283.	4.6635
1050.0	31.912	21981.	111.23	-94805.	4.7162
1100.0	32.498	23591.	112.72	-1.00404E+05	4.7677
1150.0	33.189	25233.	114.18	-1.06077E+05	4.8180
1200.0	33.985	26912.	115.61	-1.11822E+05	4.8674
1250.0	34.887	28633.	117.02	-1.17638E+05	4.9157
1300.0	35.893	30402.	118.40	-1.23523E+05	4.9631
1350.0	37.004	32224.	119.78	-1.29478E+05	5.0097
1400.0	38.219	34104.	121.15	-1.35501E+05	5.0555
1450.0	39.540	36048.	122.51	-1.41593E+05	5.1006
1500.0	40.966	38060.	123.87	-1.47752E+05	5.1451
1550.0	42.497	40146.	125.24	-1.53980E+05	5.1890
1600.0	44.132	42311.	126.62	-1.60277E+05	5.2324
1650.0	45.873	44561.	128.00	-1.66642E+05	5.2753
1654.1	46.022	44752.	128.12	-1.67173E+05	5.2789
1654.2	50.208	49343.	130.89	-1.67174E+05	5.2789
1685.1	50.208	50900.	131.83	-1.71246E+05	5.3080
1685.2	49.915	62250.	138.56	-1.71246E+05	5.3080
1700.0	49.915	62992.	139.00	-1.73307E+05	5.3249
1750.0	49.915	65487.	140.45	-1.80293E+05	5.3813
1800.0	49.915	67983.	141.85	-1.87350E+05	5.4366
1850.0	49.915	70479.	143.22	-1.94477E+05	5.4909
1900.0	49.915	72975.	144.55	-2.01672E+05	5.5442
1950.0	49.915	75470.	145.85	-2.08932E+05	5.5965
2000.0	49.915	77966.	147.11	-2.16256E+05	5.6479
2050.0	49.915	80462.	148.34	-2.23642E+05	5.6983
2100.0	49.915	82958.	149.55	-2.31090E+05	5.7479
2150.0	49.915	85453.	150.72	-2.38597E+05	5.7966
2200.0	49.915	87949.	151.87	-2.46162E+05	5.8445
2250.0	49.915	90445.	152.99	-2.53783E+05	5.8915
2300.0	49.915	92941.	154.09	-2.61460E+05	5.9378
2350.0	49.915	95436.	155.16	-2.69191E+05	5.9833
2400.0	49.915	97932.	156.21	-2.76976E+05	6.0281
2450.0	49.915	1.00428E+05	157.24	-2.84812E+05	6.0721
2500.0	49.915	1.02924E+05	158.25	-2.92700E+05	6.1155
2550.0	49.915	1.05419E+05	159.24	-3.00637E+05	6.1581
2600.0	49.915	1.07915E+05	160.21	-3.08623E+05	6.2002
2650.0	49.915	1.10411E+05	161.16	-3.16657E+05	6.2415
2700.0	49.915	1.12907E+05	162.09	-3.24738E+05	6.2823
2750.0	49.915	1.15402E+05	163.01	-3.32866E+05	6.3224
2800.0	49.915	1.17898E+05	163.91	-3.41039E+05	6.3620
2850.0	49.915	1.20394E+05	164.79	-3.49256E+05	6.4010
2900.0	49.915	1.22890E+05	165.66	-3.57518E+05	6.4394
2950.0	49.915	1.25386E+05	166.51	-3.65822E+05	6.4773
3000.0	49.915	1.27881E+05	167.35	-3.74168E+05	6.5147

Dy<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.778	2.85252E+05	195.90	2.26844E+05	-39.741
300.00	20.780	2.85290E+05	196.03	2.26482E+05	-39.433
350.00	20.800	2.86330E+05	199.23	2.16598E+05	-32.325
400.00	20.801	2.87370E+05	202.01	2.06566E+05	-26.974
450.00	20.798	2.88410E+05	204.46	1.96403E+05	-22.797
500.00	20.800	2.89450E+05	206.65	1.86124E+05	-19.444
550.00	20.809	2.90490E+05	208.64	1.75741E+05	-16.690
600.00	20.830	2.91531E+05	210.45	1.65263E+05	-14.387
650.00	20.864	2.92573E+05	212.12	1.54699E+05	-12.431
700.00	20.911	2.93618E+05	213.66	1.44054E+05	-10.749
750.00	20.973	2.94665E+05	215.11	1.33334E+05	-9.2860
800.00	21.050	2.95715E+05	216.46	1.22544E+05	-8.0011
850.00	21.143	2.96770E+05	217.74	1.11689E+05	-6.8634
900.00	21.252	2.97830E+05	218.95	1.00771E+05	-5.8485
950.00	21.377	2.98896E+05	220.11	89794.	-4.9371
1000.0	21.518	2.99968E+05	221.21	78761.	-4.1140
1050.0	21.675	3.01048E+05	222.26	67675.	-3.3665
1100.0	21.849	3.02136E+05	223.27	56536.	-2.6846
1150.0	22.039	3.03233E+05	224.25	45348.	-2.0597
1200.0	22.246	3.04340E+05	225.19	34112.	-1.4848
1250.0	22.470	3.05458E+05	226.10	22829.	-0.95397
1300.0	22.710	3.06587E+05	226.99	11502.	-0.46215
1350.0	22.966	3.07729E+05	227.85	131.03	-5.0E-03
1400.0	23.240	3.08884E+05	228.69	-11283.	0.42095
1450.0	23.530	3.10053E+05	229.51	-22738.	0.81908
1500.0	23.837	3.11237E+05	230.31	-34233.	1.1921
1550.0	24.160	3.12437E+05	231.10	-45769.	1.5424
1600.0	24.501	3.13654E+05	231.87	-57343.	1.8720
1650.0	24.858	3.14888E+05	232.63	-68956.	2.1829
1700.0	25.232	3.16140E+05	233.38	-80606.	2.4767
1750.0	25.623	3.17411E+05	234.12	-92294.	2.7547
1800.0	26.030	3.18702E+05	234.84	-1.04018E+05	3.0184
1850.0	26.454	3.20014E+05	235.56	-1.15778E+05	3.2689
1900.0	26.896	3.21348E+05	236.27	-1.27574E+05	3.5072
1950.0	27.353	3.22704E+05	236.98	-1.39405E+05	3.7342
2000.0	27.828	3.24084E+05	237.68	-1.51272E+05	3.9507
2050.0	28.320	3.25487E+05	238.37	-1.63173E+05	4.1576
2100.0	28.828	3.26916E+05	239.06	-1.75109E+05	4.3555
2150.0	29.353	3.28370E+05	239.74	-1.87079E+05	4.5450
2200.0	29.895	3.29851E+05	240.42	-1.99083E+05	4.7267
2250.0	30.454	3.31360E+05	241.10	-2.11121E+05	4.9011
2300.0	31.030	3.32897E+05	241.78	-2.23193E+05	5.0688
2350.0	31.622	3.34463E+05	242.45	-2.35299E+05	5.2300
2400.0	32.232	3.36060E+05	243.12	-2.47439E+05	5.3852
2450.0	32.858	3.37687E+05	243.80	-2.59612E+05	5.5348
2500.0	33.501	3.39346E+05	244.47	-2.71818E+05	5.6792
2550.0	34.161	3.41037E+05	245.14	-2.84058E+05	5.8185
2600.0	34.837	3.42762E+05	245.81	-2.96332E+05	5.9532
2650.0	35.531	3.44521E+05	246.48	-3.08639E+05	6.0835
2700.0	36.241	3.46315E+05	247.15	-3.20979E+05	6.2096
2750.0	36.968	3.48146E+05	247.82	-3.33353E+05	6.3317
2800.0	37.712	3.50013E+05	248.49	-3.45761E+05	6.4501
2850.0	38.473	3.51917E+05	249.16	-3.58202E+05	6.5649
2900.0	39.253	3.53860E+05	249.84	-3.70678E+05	6.6765
2950.0	40.012	3.55842E+05	250.52	-3.83186E+05	6.7848
3000.0	40.796	3.57862E+05	251.20	-3.95729E+05	6.8901

Er

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	28.083	0.00000E+00	73.178	-21818.	3.8223
300.00	28.089	51.959	73.352	-21954.	3.8224
350.00	28.231	1459.9	77.692	-25732.	3.8402
400.00	28.383	2875.2	81.472	-29713.	3.8801
450.00	28.551	4298.5	84.824	-33872.	3.9317
500.00	28.741	5730.7	87.842	-38190.	3.9896
550.00	28.955	7173.0	90.591	-42652.	4.0507
600.00	29.194	8626.6	93.121	-47246.	4.1130
650.00	29.460	10093.	95.468	-51961.	4.1755
700.00	29.752	11573.	97.662	-56790.	4.2376
750.00	30.072	13069.	99.725	-61725.	4.2988
800.00	30.419	14581.	101.68	-66761.	4.3589
850.00	30.795	16111.	103.53	-71891.	4.4178
900.00	31.198	17661.	105.30	-77112.	4.4754
950.00	31.630	19231.	107.00	-82420.	4.5317
1000.0	32.089	20824.	108.64	-87812.	4.5867
1050.0	32.577	22441.	110.21	-93283.	4.6405
1100.0	33.094	24082.	111.74	-98832.	4.6930
1150.0	33.638	25750.	113.22	-1.04456E+05	4.7444
1200.0	34.212	27447.	114.67	-1.10154E+05	4.7947
1250.0	34.813	29172.	116.08	-1.15922E+05	4.8440
1300.0	35.443	30928.	117.45	-1.21761E+05	4.8923
1350.0	36.102	32717.	118.80	-1.27667E+05	4.9396
1400.0	36.789	34539.	120.13	-1.33641E+05	4.9861
1450.0	37.504	36396.	121.43	-1.39680E+05	5.0317
1500.0	38.248	38290.	122.72	-1.45783E+05	5.0765
1550.0	39.021	40221.	123.98	-1.51951E+05	5.1206
1600.0	39.822	42192.	125.23	-1.58181E+05	5.1640
1650.0	40.652	44204.	126.47	-1.64474E+05	5.2067
1700.0	41.510	46258.	127.70	-1.70828E+05	5.2488
1750.0	42.396	48356.	128.91	-1.77244E+05	5.2903
1800.0	43.312	50498.	130.12	-1.83720E+05	5.3313
1802.0	43.349	50585.	130.17	-1.83980E+05	5.3329
1802.0	38.702	70488.	141.21	-1.83980E+05	5.3329
1850.0	38.702	72346.	142.23	-1.90783E+05	5.3866
1900.0	38.702	74281.	143.26	-1.97920E+05	5.4411
1950.0	38.702	76216.	144.27	-2.05109E+05	5.4941
2000.0	38.702	78151.	145.25	-2.12347E+05	5.5458
2050.0	38.702	80086.	146.20	-2.19633E+05	5.5962
2100.0	38.702	82021.	147.14	-2.26967E+05	5.6453
2150.0	38.702	83956.	148.05	-2.34347E+05	5.6933
2200.0	38.702	85892.	148.94	-2.41771E+05	5.7402
2250.0	38.702	87827.	149.81	-2.49240E+05	5.7861
2300.0	38.702	89762.	150.66	-2.56752E+05	5.8309
2350.0	38.702	91697.	151.49	-2.64305E+05	5.8747
2400.0	38.702	93632.	152.31	-2.71900E+05	5.9176
2450.0	38.702	95567.	153.10	-2.79536E+05	5.9596
2500.0	38.702	97502.	153.89	-2.87210E+05	6.0008
2550.0	38.702	99437.	154.65	-2.94924E+05	6.0411
2600.0	38.702	1.01372E+05	155.40	-3.02675E+05	6.0807
2650.0	38.702	1.03307E+05	156.14	-3.10464E+05	6.1195
2700.0	38.702	1.05243E+05	156.86	-3.18289E+05	6.1575
2750.0	38.702	1.07178E+05	157.57	-3.26150E+05	6.1949
2800.0	38.702	1.09113E+05	158.27	-3.34046E+05	6.2316
2850.0	38.702	1.11048E+05	158.96	-3.41977E+05	6.2676
2900.0	38.702	1.12983E+05	159.63	-3.49942E+05	6.3030
2950.0	38.702	1.14918E+05	160.29	-3.57940E+05	6.3378
3000.0	38.702	1.16853E+05	160.94	-3.65971E+05	6.3720

Er<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.783	3.13827E+05	194.03	2.55977E+05	-44.845
300.00	20.784	3.13865E+05	194.16	2.55618E+05	-44.506
350.00	20.804	3.14905E+05	197.36	2.45828E+05	-36.687
400.00	20.804	3.15946E+05	200.14	2.35889E+05	-30.803
450.00	20.795	3.16986E+05	202.59	2.25819E+05	-26.212
500.00	20.785	3.18025E+05	204.78	2.15634E+05	-22.527
550.00	20.778	3.19064E+05	206.76	2.05345E+05	-19.502
600.00	20.777	3.20103E+05	208.57	1.94961E+05	-16.972
650.00	20.782	3.21142E+05	210.23	1.84490E+05	-14.825
700.00	20.796	3.22181E+05	211.77	1.73939E+05	-12.979
750.00	20.818	3.23222E+05	213.21	1.63314E+05	-11.374
800.00	20.849	3.24263E+05	214.55	1.52620E+05	-9.9648
850.00	20.890	3.25307E+05	215.82	1.41860E+05	-8.7175
900.00	20.940	3.26352E+05	217.01	1.31039E+05	-7.6051
950.00	21.000	3.27401E+05	218.15	1.20160E+05	-6.6067
1000.0	21.082	3.28453E+05	219.23	1.09225E+05	-5.7052
1050.0	21.190	3.29509E+05	220.26	98238.	-4.8870
1100.0	21.325	3.30572E+05	221.25	87200.	-4.1407
1150.0	21.490	3.31642E+05	222.20	76114.	-3.4571
1200.0	21.684	3.32722E+05	223.12	64981.	-2.8285
1250.0	21.909	3.33811E+05	224.01	53803.	-2.2482
1300.0	22.166	3.34913E+05	224.87	42581.	-1.7109
1350.0	22.456	3.36029E+05	225.71	31316.	-1.2117
1400.0	22.778	3.37159E+05	226.54	20010.	-0.74655
1450.0	23.134	3.38307E+05	227.34	8662.7	-0.31206
1500.0	23.523	3.39473E+05	228.13	-2724.1	9.4E-02
1550.0	23.947	3.40660E+05	228.91	-14150.	0.47685
1600.0	24.404	3.41868E+05	229.68	-25615.	0.83622
1650.0	24.897	3.43101E+05	230.44	-37118.	1.1750
1700.0	25.423	3.44359E+05	231.19	-48658.	1.4951
1750.0	25.985	3.45644E+05	231.93	-60236.	1.7979
1800.0	26.582	3.46958E+05	232.67	-71851.	2.0850
1850.0	27.195	3.48302E+05	233.41	-83503.	2.3577
1900.0	27.839	3.49678E+05	234.14	-95192.	2.6170
1950.0	28.511	3.51086E+05	234.87	-1.06918E+05	2.8639
2000.0	29.205	3.52529E+05	235.60	-1.18680E+05	3.0995
2050.0	29.916	3.54007E+05	236.33	-1.30478E+05	3.3245
2100.0	30.641	3.55521E+05	237.06	-1.42313E+05	3.5398
2150.0	31.378	3.57072E+05	237.79	-1.54184E+05	3.7458
2200.0	32.122	3.58659E+05	238.52	-1.66092E+05	3.9434
2250.0	32.872	3.60284E+05	239.25	-1.78037E+05	4.1331
2300.0	33.625	3.61946E+05	239.98	-1.90018E+05	4.3153
2350.0	34.379	3.63646E+05	240.72	-2.02035E+05	4.4906
2400.0	35.132	3.65384E+05	241.45	-2.14089E+05	4.6594
2450.0	35.883	3.67160E+05	242.18	-2.26180E+05	4.8221
2500.0	36.630	3.68972E+05	242.91	-2.38307E+05	4.9790
2550.0	37.372	3.70823E+05	243.64	-2.50471E+05	5.1306
2600.0	38.107	3.72710E+05	244.38	-2.62672E+05	5.2770
2650.0	38.835	3.74633E+05	245.11	-2.74909E+05	5.4186
2700.0	39.554	3.76593E+05	245.84	-2.87183E+05	5.5557
2750.0	40.263	3.78588E+05	246.58	-2.99493E+05	5.6886
2800.0	40.962	3.80619E+05	247.31	-3.11840E+05	5.8173
2850.0	41.650	3.82684E+05	248.04	-3.24224E+05	5.9422
2900.0	42.326	3.84784E+05	248.77	-3.36644E+05	6.0635
2950.0	42.990	3.86917E+05	249.50	-3.49101E+05	6.1812
3000.0	43.641	3.89083E+05	250.23	-3.61594E+05	6.2957

ErBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.844	-5.46012E+05	403.38	-6.66278E+05	116.73
300.00	79.883	-5.45864E+05	403.87	-6.67025E+05	116.14
350.00	80.725	-5.41847E+05	416.25	-6.87535E+05	102.61
400.00	81.273	-5.37797E+05	427.07	-7.08624E+05	92.534
450.00	81.650	-5.33723E+05	436.66	-7.30222E+05	84.760
500.00	81.920	-5.29633E+05	445.28	-7.52274E+05	78.588
550.00	82.122	-5.25532E+05	453.10	-7.74737E+05	73.576
600.00	82.276	-5.21422E+05	460.25	-7.97573E+05	69.433
650.00	82.397	-5.17305E+05	466.84	-8.20753E+05	65.955
700.00	82.494	-5.13183E+05	472.95	-8.44249E+05	62.997
750.00	82.573	-5.09056E+05	478.65	-8.68041E+05	60.454
800.00	82.638	-5.04926E+05	483.98	-8.92108E+05	58.247
850.00	82.693	-5.00792E+05	488.99	-9.16433E+05	56.316
900.00	82.739	-4.96657E+05	493.72	-9.41002E+05	54.613
950.00	82.779	-4.92519E+05	498.19	-9.65801E+05	53.102
1000.0	82.814	-4.88379E+05	502.44	-9.90818E+05	51.754
1050.0	82.845	-4.84237E+05	506.48	-1.01604E+06	50.544
1100.0	82.872	-4.80094E+05	510.33	-1.04146E+06	49.454
1150.0	82.896	-4.75950E+05	514.02	-1.06707E+06	48.467
1200.0	82.918	-4.71805E+05	517.55	-1.09286E+06	47.570
1250.0	82.938	-4.67658E+05	520.93	-1.11882E+06	46.752
1300.0	82.955	-4.63511E+05	524.19	-1.14495E+06	46.004
1350.0	82.972	-4.59363E+05	527.32	-1.17124E+06	45.317
1400.0	82.987	-4.55214E+05	530.33	-1.19768E+06	44.685
1450.0	83.001	-4.51064E+05	533.25	-1.22427E+06	44.102
1500.0	83.014	-4.46914E+05	536.06	-1.25101E+06	43.563
1550.0	83.026	-4.42763E+05	538.78	-1.27788E+06	43.063
1600.0	83.038	-4.38611E+05	541.42	-1.30488E+06	42.599
1650.0	83.048	-4.34459E+05	543.98	-1.33202E+06	42.167
1700.0	83.059	-4.30306E+05	546.45	-1.35928E+06	41.765
1750.0	83.068	-4.26153E+05	548.86	-1.38666E+06	41.389
1800.0	83.078	-4.21999E+05	551.20	-1.41416E+06	41.037
1850.0	83.087	-4.17845E+05	553.48	-1.44178E+06	40.708
1900.0	83.095	-4.13691E+05	555.69	-1.46951E+06	40.399
1950.0	83.103	-4.09536E+05	557.85	-1.49735E+06	40.108
2000.0	83.111	-4.05380E+05	559.96	-1.52530E+06	39.836

Eu

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.112	0.00000E+00	80.793	-24088.	4.2201
300.00	27.132	50.176	80.961	-24238.	4.2201
350.00	27.588	1418.8	85.179	-28394.	4.2375
400.00	27.950	2807.4	88.887	-32748.	4.2763
450.00	28.310	4213.8	92.200	-37276.	4.3268
500.00	28.713	5639.2	95.203	-41962.	4.3837
550.00	29.186	7086.3	97.961	-46792.	4.4439
600.00	29.745	8559.1	100.52	-51755.	4.5056
650.00	30.400	10062.	102.93	-56842.	4.5678
700.00	31.158	11601.	105.21	-62046.	4.6298
750.00	32.023	13180.	107.39	-67361.	4.6914
800.00	32.998	14805.	109.49	-72784.	4.7522
850.00	34.087	16482.	111.52	-78309.	4.8122
900.00	35.289	18216.	113.50	-83935.	4.8713
950.00	36.607	20012.	115.44	-89658.	4.9296
1000.0	38.041	21878.	117.36	-95478.	4.9872
1050.0	39.593	23818.	119.25	-1.01394E+05	5.0439
1095.0	41.089	25633.	120.94	-1.06798E+05	5.0944
1095.0	38.116	34847.	129.36	-1.06798E+05	5.0944
1100.0	38.116	35037.	129.53	-1.07445E+05	5.1020
1150.0	38.116	36943.	131.22	-1.13964E+05	5.1763
1200.0	38.116	38849.	132.85	-1.20566E+05	5.2480
1250.0	38.116	40755.	134.40	-1.27248E+05	5.3173
1300.0	38.116	42661.	135.90	-1.34006E+05	5.3843
1350.0	38.116	44566.	137.34	-1.40837E+05	5.4492
1400.0	38.116	46472.	138.72	-1.47738E+05	5.5120
1450.0	38.116	48378.	140.06	-1.54708E+05	5.5730
1500.0	38.116	50284.	141.35	-1.61743E+05	5.6323
1550.0	38.116	52190.	142.60	-1.68842E+05	5.6898
1600.0	38.116	54095.	143.81	-1.76003E+05	5.7458
1650.0	38.116	56001.	144.98	-1.83223E+05	5.8002
1700.0	38.116	57907.	146.12	-1.90501E+05	5.8532
1750.0	38.116	59813.	147.23	-1.97835E+05	5.9049
1800.0	38.116	61719.	148.30	-2.05223E+05	5.9553
1850.0	38.116	63624.	149.35	-2.12664E+05	6.0044
1900.0	38.116	65530.	150.36	-2.20157E+05	6.0524
1950.0	38.116	67436.	151.35	-2.27700E+05	6.0992
2000.0	38.116	69342.	152.32	-2.35292E+05	6.1450

EuBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.666	-3.72376E+05	337.34	-4.72954E+05	82.857
300.00	60.680	-3.72264E+05	337.72	-4.73578E+05	82.455
350.00	61.007	-3.69221E+05	347.10	-4.90704E+05	73.232
400.00	61.256	-3.66164E+05	355.26	-5.08268E+05	66.371
450.00	61.460	-3.63096E+05	362.49	-5.26215E+05	61.080
500.00	61.636	-3.60019E+05	368.97	-5.44504E+05	56.882
550.00	61.794	-3.56933E+05	374.85	-5.63102E+05	53.478
600.00	61.939	-3.53840E+05	380.24	-5.81981E+05	50.665
650.00	62.076	-3.50739E+05	385.20	-6.01118E+05	48.305
700.00	62.206	-3.47632E+05	389.80	-6.20495E+05	46.301
750.00	62.332	-3.44519E+05	394.10	-6.40093E+05	44.579
800.00	62.454	-3.41399E+05	398.13	-6.59900E+05	43.086
850.00	62.573	-3.38273E+05	401.92	-6.79902E+05	41.781
900.00	62.690	-3.35142E+05	405.50	-7.00088E+05	40.631
950.00	62.805	-3.32004E+05	408.89	-7.20449E+05	39.612
1000.0	62.919	-3.28861E+05	412.11	-7.40974E+05	38.704
1050.0	63.032	-3.25713E+05	415.19	-7.61657E+05	37.889
1100.0	63.144	-3.22558E+05	418.12	-7.82491E+05	37.156
1150.0	63.255	-3.19398E+05	420.93	-8.03467E+05	36.494
1200.0	63.366	-3.16233E+05	423.62	-8.24582E+05	35.892
1250.0	63.476	-3.13062E+05	426.21	-8.45828E+05	35.344
1300.0	63.585	-3.09885E+05	428.70	-8.67201E+05	34.844
1350.0	63.694	-3.06703E+05	431.11	-8.88697E+05	34.385
1400.0	63.803	-3.03516E+05	433.42	-9.10311E+05	33.963
1450.0	63.912	-3.00323E+05	435.67	-9.32038E+05	33.575
1500.0	64.020	-2.97124E+05	437.83	-9.53876E+05	33.216

EuBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	110.63	-7.53120E+05	182.84	-8.07634E+05	141.49
300.00	110.69	-7.52915E+05	183.53	-8.07973E+05	140.68
350.00	112.40	-7.47337E+05	200.72	-8.17589E+05	122.02
400.00	113.94	-7.41678E+05	215.83	-8.28010E+05	108.12
450.00	115.37	-7.35945E+05	229.33	-8.39145E+05	97.403
500.00	116.75	-7.30142E+05	241.56	-8.50923E+05	88.893
550.00	118.09	-7.24271E+05	252.75	-8.63284E+05	81.986
600.00	119.39	-7.18334E+05	263.08	-8.76183E+05	76.277
650.00	120.68	-7.12332E+05	272.69	-8.89580E+05	71.486
700.00	121.96	-7.06266E+05	281.68	-9.03442E+05	67.414

F<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	22.756	79380.	158.75	32049.	-5.6147
300.00	22.748	79422.	158.89	31755.	-5.5289
350.00	22.555	80555.	162.38	23721.	-3.5401
400.00	22.387	81678.	165.38	15525.	-2.0273
450.00	22.236	82794.	168.01	7189.0	-0.83446
500.00	22.098	83902.	170.35	-1271.0	0.13277
550.00	21.973	85004.	172.45	-9841.6	0.93466
600.00	21.857	86099.	174.35	-18512.	1.6116
650.00	21.752	87189.	176.10	-27274.	2.1917
700.00	21.655	88275.	177.71	-36120.	2.6952
750.00	21.567	89355.	179.20	-45043.	3.1370
800.00	21.487	90431.	180.59	-54038.	3.5282
850.00	21.416	91504.	181.89	-63100.	3.8776
900.00	21.352	92573.	183.11	-72225.	4.1917
950.00	21.297	93639.	184.26	-81410.	4.4761
1000.0	21.249	94703.	185.35	-90651.	4.7350
1050.0	21.209	95764.	186.39	-99944.	4.9718
1100.0	21.177	96824.	187.38	-1.09289E+05	5.1896
1150.0	21.153	97882.	188.32	-1.18681E+05	5.3905
1200.0	21.137	98939.	189.22	-1.28119E+05	5.5768
1250.0	21.111	99996.	190.08	-1.37602E+05	5.7499
1300.0	21.088	1.01051E+05	190.91	-1.47127E+05	5.9115
1350.0	21.068	1.02104E+05	191.70	-1.56692E+05	6.0626
1400.0	21.049	1.03157E+05	192.47	-1.66296E+05	6.2044
1450.0	21.033	1.04209E+05	193.21	-1.75938E+05	6.3378
1500.0	21.018	1.05261E+05	193.92	-1.85616E+05	6.4636
1550.0	21.004	1.06311E+05	194.61	-1.95330E+05	6.5824
1600.0	20.992	1.07361E+05	195.27	-2.05077E+05	6.6949
1650.0	20.981	1.08410E+05	195.92	-2.14857E+05	6.8016
1700.0	20.970	1.09459E+05	196.55	-2.24668E+05	6.9030
1750.0	20.961	1.10507E+05	197.15	-2.34511E+05	6.9996
1800.0	20.952	1.11555E+05	197.74	-2.44383E+05	7.0916
1850.0	20.944	1.12603E+05	198.32	-2.54285E+05	7.1795
1900.0	20.937	1.13650E+05	198.88	-2.64215E+05	7.2636
1950.0	20.930	1.14696E+05	199.42	-2.74172E+05	7.3441
2000.0	20.923	1.15743E+05	199.95	-2.84157E+05	7.4212
2050.0	20.917	1.16789E+05	200.47	-2.94167E+05	7.4953
2100.0	20.912	1.17834E+05	200.97	-3.04203E+05	7.5664
2150.0	20.906	1.18880E+05	201.46	-3.14264E+05	7.6349
2200.0	20.902	1.19925E+05	201.94	-3.24349E+05	7.7008
2250.0	20.897	1.20970E+05	202.41	-3.34458E+05	7.7644
2300.0	20.893	1.22015E+05	202.87	-3.44590E+05	7.8257
2350.0	20.889	1.23059E+05	203.32	-3.54745E+05	7.8849
2400.0	20.885	1.24104E+05	203.76	-3.64922E+05	7.9421
2450.0	20.881	1.25148E+05	204.19	-3.75121E+05	7.9975
2500.0	20.878	1.26192E+05	204.61	-3.85341E+05	8.0511
2550.0	20.875	1.27236E+05	205.03	-3.95582E+05	8.1030
2600.0	20.872	1.28279E+05	205.43	-4.05844E+05	8.1533
2650.0	20.869	1.29323E+05	205.83	-4.16125E+05	8.2021
2700.0	20.866	1.30366E+05	206.22	-4.26426E+05	8.2495
2750.0	20.863	1.31409E+05	206.60	-4.36747E+05	8.2955
2800.0	20.861	1.32452E+05	206.98	-4.47087E+05	8.3403
2850.0	20.859	1.33495E+05	207.35	-4.57445E+05	8.3838
2900.0	20.856	1.34538E+05	207.71	-4.67821E+05	8.4262
2950.0	20.854	1.35581E+05	208.07	-4.78216E+05	8.4674
3000.0	20.852	1.36624E+05	208.42	-4.88628E+05	8.5076

F2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	31.295	0.00000E+00	202.79	-60462.	10.592
300.00	31.335	57.932	202.98	-60837.	10.592
350.00	32.280	1649.3	207.89	-71111.	10.612
400.00	33.041	3282.9	212.25	-81617.	10.658
450.00	33.680	4951.3	216.18	-92329.	10.717
500.00	34.231	6649.5	219.76	-1.03229E+05	10.784
550.00	34.712	8373.3	223.04	-1.14300E+05	10.855
600.00	35.134	10120.	226.08	-1.25529E+05	10.928
650.00	35.504	11886.	228.91	-1.36904E+05	11.001
700.00	35.827	13669.	231.55	-1.48416E+05	11.075
750.00	36.106	15468.	234.03	-1.60056E+05	11.147
800.00	36.344	17279.	236.37	-1.71817E+05	11.218
850.00	36.516	19101.	238.58	-1.83691E+05	11.288
900.00	36.684	20931.	240.67	-1.95673E+05	11.356
950.00	36.847	22769.	242.66	-2.07757E+05	11.423
1000.0	37.005	24615.	244.55	-2.19937E+05	11.488
1050.0	37.157	26470.	246.36	-2.32211E+05	11.552
1100.0	37.304	28331.	248.09	-2.44572E+05	11.613
1150.0	37.445	30200.	249.76	-2.57019E+05	11.674
1200.0	37.580	32075.	251.35	-2.69547E+05	11.733
1250.0	37.709	33958.	252.89	-2.82153E+05	11.790
1300.0	37.832	35846.	254.37	-2.94835E+05	11.846
1350.0	37.949	37741.	255.80	-3.07589E+05	11.901
1400.0	38.060	39641.	257.18	-3.20414E+05	11.954
1450.0	38.165	41547.	258.52	-3.33307E+05	12.007
1500.0	38.264	43457.	259.82	-3.46265E+05	12.058
1550.0	38.356	45373.	261.07	-3.59287E+05	12.108
1600.0	38.442	47293.	262.29	-3.72372E+05	12.156
1650.0	38.522	49217.	263.47	-3.85516E+05	12.204
1700.0	38.596	51145.	264.63	-3.98719E+05	12.251
1750.0	38.663	53077.	265.75	-4.11978E+05	12.297
1800.0	38.724	55011.	266.84	-4.25293E+05	12.341
1850.0	38.779	56949.	267.90	-4.38661E+05	12.385
1900.0	38.827	58889.	268.93	-4.52082E+05	12.428
1950.0	38.870	60831.	269.94	-4.65554E+05	12.470
2000.0	38.905	62776.	270.93	-4.79076E+05	12.512
2050.0	38.935	64722.	271.89	-4.92646E+05	12.552
2100.0	38.958	66669.	272.83	-5.06264E+05	12.592
2150.0	38.975	68618.	273.74	-5.19928E+05	12.631
2200.0	38.985	70567.	274.64	-5.33638E+05	12.670
2250.0	38.989	72516.	275.51	-5.47392E+05	12.708
2300.0	38.987	74465.	276.37	-5.61189E+05	12.745
2350.0	38.979	76415.	277.21	-5.75029E+05	12.781
2400.0	38.964	78363.	278.03	-5.88910E+05	12.817
2450.0	38.942	80311.	278.83	-6.02831E+05	12.852
2500.0	38.914	82257.	279.62	-6.16793E+05	12.887
2550.0	38.869	84202.	280.39	-6.30793E+05	12.921
2600.0	38.811	86144.	281.14	-6.44831E+05	12.954
2650.0	38.741	88083.	281.88	-6.58907E+05	12.988
2700.0	38.659	90018.	282.61	-6.73020E+05	13.020
2750.0	38.568	91949.	283.32	-6.87168E+05	13.052
2800.0	38.467	93875.	284.01	-7.01351E+05	13.084
2850.0	38.358	95795.	284.69	-7.15568E+05	13.115
2900.0	38.242	97710.	285.36	-7.29819E+05	13.145
2950.0	38.118	99619.	286.01	-7.44104E+05	13.175
3000.0	37.989	1.01522E+05	286.65	-7.58420E+05	13.205

Fe

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.841	0.00000E+00	27.280	-8133.4	1.4249
300.00	24.889	46.001	27.434	-8184.1	1.4249
350.00	26.069	1320.8	31.361	-9655.7	1.4410
400.00	27.133	2651.0	34.912	-11314.	1.4774
450.00	28.202	4034.2	38.170	-13142.	1.5255
500.00	29.339	5472.4	41.199	-15127.	1.5803
550.00	30.579	6969.9	44.053	-17259.	1.6391
600.00	31.944	8532.4	46.771	-19530.	1.7002
650.00	33.447	10167.	49.386	-21934.	1.7626
700.00	35.097	11880.	51.924	-24467.	1.8257
750.00	37.014	13682.	54.410	-27126.	1.8892
800.00	39.188	15585.	56.867	-29908.	1.9527
850.00	41.801	17608.	59.318	-32813.	2.0164
900.00	44.984	19775.	61.795	-35840.	2.0801
950.00	48.968	22119.	64.329	-38993.	2.1439
1000.0	54.214	24692.	66.967	-42275.	2.2081
1050.0	50.947	27509.	69.715	-45692.	2.2730
1100.0	45.585	29906.	71.947	-49235.	2.3379
1150.0	42.810	32109.	73.906	-52882.	2.4019
1184.8	41.638	33577.	75.164	-55476.	2.4457
1184.8	33.954	34590.	76.018	-55477.	2.4457
1200.0	34.084	35107.	76.452	-56635.	2.4652
1250.0	34.511	36822.	77.852	-60493.	2.5278
1300.0	34.939	38558.	79.214	-64420.	2.5884
1350.0	35.369	40316.	80.541	-68414.	2.6470
1400.0	35.799	42095.	81.835	-72473.	2.7039
1450.0	36.231	43896.	83.099	-76597.	2.7592
1500.0	36.663	45718.	84.334	-80783.	2.8130
1550.0	37.097	47562.	85.543	-85030.	2.8654
1600.0	37.533	49428.	86.728	-89337.	2.9165
1650.0	37.970	51316.	87.890	-93702.	2.9663
1667.5	38.123	51981.	88.291	-95244.	2.9834
1667.5	40.306	52807.	88.786	-95244.	2.9834
1700.0	40.522	54121.	89.566	-98142.	3.0155
1750.0	40.878	56156.	90.746	-1.02650E+05	3.0639
1800.0	41.260	58209.	91.903	-1.07216E+05	3.1113
1811.0	41.347	58663.	92.155	-1.08229E+05	3.1216
1811.0	46.000	72469.	99.778	-1.08229E+05	3.1216
1850.0	46.000	74263.	100.76	-1.12139E+05	3.1662
1900.0	46.000	76563.	101.98	-1.17208E+05	3.2222
1950.0	46.000	78863.	103.18	-1.22337E+05	3.2770
2000.0	46.000	81163.	104.34	-1.27525E+05	3.3305
2050.0	46.000	83463.	105.48	-1.32771E+05	3.3830
2100.0	46.000	85763.	106.59	-1.38073E+05	3.4343
2150.0	46.000	88063.	107.67	-1.43429E+05	3.4846
2200.0	46.000	90363.	108.73	-1.48840E+05	3.5338
2250.0	46.000	92663.	109.76	-1.54302E+05	3.5821
2300.0	46.000	94963.	110.77	-1.59815E+05	3.6294
2350.0	46.000	97263.	111.76	-1.65379E+05	3.6759
2400.0	46.000	99563.	112.73	-1.70991E+05	3.7214
2450.0	46.000	1.01863E+05	113.68	-1.76652E+05	3.7662
2500.0	46.000	1.04163E+05	114.61	-1.82359E+05	3.8101
2550.0	46.000	1.06463E+05	115.52	-1.88112E+05	3.8532
2600.0	46.000	1.08763E+05	116.41	-1.93911E+05	3.8956
2650.0	46.000	1.11063E+05	117.29	-1.99753E+05	3.9373
2700.0	46.000	1.13363E+05	118.15	-2.05639E+05	3.9782
2750.0	46.000	1.15663E+05	118.99	-2.11568E+05	4.0185
2800.0	46.000	1.17963E+05	119.82	-2.17538E+05	4.0581
2850.0	46.000	1.20263E+05	120.64	-2.23550E+05	4.0971
2900.0	46.000	1.22563E+05	121.44	-2.29602E+05	4.1355
2950.0	46.000	1.24863E+05	122.22	-2.35693E+05	4.1732
3000.0	46.000	1.27163E+05	123.00	-2.41824E+05	4.2104

FeCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	41.258	1.91933E+05	253.18	1.16448E+05	-20.401
300.00	41.254	1.92009E+05	253.43	1.15979E+05	-20.193
350.00	41.127	1.94069E+05	259.78	1.03145E+05	-15.393
400.00	41.025	1.96122E+05	265.27	90015.	-11.755
450.00	40.993	1.98173E+05	270.10	76629.	-8.8946
500.00	41.056	2.00223E+05	274.42	63014.	-6.5829
550.00	41.247	2.02280E+05	278.34	49194.	-4.6719
600.00	41.527	2.04350E+05	281.94	35186.	-3.0631
650.00	41.858	2.06434E+05	285.28	21004.	-1.6879
700.00	42.213	2.08536E+05	288.39	6661.6	-0.49708
750.00	42.576	2.10655E+05	291.32	-7831.9	0.54545
800.00	42.934	2.12793E+05	294.08	-22467.	1.4669
850.00	43.279	2.14949E+05	296.69	-37237.	2.2882
900.00	43.605	2.17121E+05	299.17	-52134.	3.0257
950.00	43.906	2.19309E+05	301.54	-67152.	3.6922
1000.0	44.179	2.21511E+05	303.80	-82286.	4.2981
1050.0	44.422	2.23726E+05	305.96	-97530.	4.8517
1100.0	44.631	2.25953E+05	308.03	-1.12880E+05	5.3601
1150.0	44.825	2.28189E+05	310.02	-1.28332E+05	5.8289
1200.0	44.986	2.30435E+05	311.93	-1.43881E+05	6.2628
1250.0	45.120	2.32687E+05	313.77	-1.59524E+05	6.6660
1300.0	45.231	2.34946E+05	315.54	-1.75257E+05	7.0417
1350.0	45.323	2.37210E+05	317.25	-1.91077E+05	7.3930
1400.0	45.399	2.39478E+05	318.90	-2.06981E+05	7.7223
1450.0	45.460	2.41750E+05	320.49	-2.22966E+05	8.0319
1500.0	45.510	2.44024E+05	322.04	-2.39029E+05	8.3235
1550.0	45.550	2.46301E+05	323.53	-2.55168E+05	8.5989
1600.0	45.581	2.48579E+05	324.98	-2.71381E+05	8.8595
1650.0	45.605	2.50859E+05	326.38	-2.87665E+05	9.1065
1700.0	45.623	2.53139E+05	327.74	-3.04018E+05	9.3411
1750.0	45.636	2.55421E+05	329.06	-3.20439E+05	9.5643
1800.0	45.643	2.57703E+05	330.35	-3.36924E+05	9.7770
1850.0	45.648	2.59985E+05	331.60	-3.53473E+05	9.9800
1900.0	45.648	2.62268E+05	332.82	-3.70083E+05	10.174
1950.0	45.646	2.64550E+05	334.00	-3.86754E+05	10.360
2000.0	45.642	2.66832E+05	335.16	-4.03483E+05	10.538
2050.0	45.636	2.69114E+05	336.28	-4.20269E+05	10.708
2100.0	45.628	2.71396E+05	337.38	-4.37111E+05	10.872
2150.0	45.619	2.73677E+05	338.46	-4.54007E+05	11.030
2200.0	45.610	2.75958E+05	339.51	-4.70956E+05	11.182
2250.0	45.599	2.78238E+05	340.53	-4.87957E+05	11.328
2300.0	45.588	2.80518E+05	341.53	-5.05009E+05	11.469
2350.0	45.577	2.82797E+05	342.51	-5.22110E+05	11.605
2400.0	45.566	2.85075E+05	343.47	-5.39260E+05	11.736
2450.0	45.555	2.87353E+05	344.41	-5.56457E+05	11.864
2500.0	45.544	2.89631E+05	345.33	-5.73701E+05	11.987
2550.0	45.533	2.91908E+05	346.23	-5.90990E+05	12.106
2600.0	45.523	2.94184E+05	347.12	-6.08324E+05	12.221
2650.0	45.513	2.96460E+05	347.99	-6.25702E+05	12.333
2700.0	45.505	2.98736E+05	348.84	-6.43123E+05	12.442
2750.0	45.496	3.01011E+05	349.67	-6.60585E+05	12.547
2800.0	45.489	3.03285E+05	350.49	-6.78089E+05	12.650
2850.0	45.483	3.05559E+05	351.30	-6.95634E+05	12.749
2900.0	45.477	3.07833E+05	352.09	-7.13219E+05	12.846
2950.0	45.473	3.10107E+05	352.86	-7.30843E+05	12.940
3000.0	45.470	3.12381E+05	353.63	-7.48505E+05	13.032

FeCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	63.496	-1.45816E+05	293.84	-2.33424E+05	40.894
300.00	63.522	-1.45699E+05	294.23	-2.33967E+05	40.736
350.00	63.996	-1.42509E+05	304.06	-2.48931E+05	37.150
400.00	64.161	-1.39304E+05	312.62	-2.64353E+05	34.520
450.00	64.169	-1.36095E+05	320.18	-2.80176E+05	32.521
500.00	64.096	-1.32888E+05	326.94	-2.96357E+05	30.959
550.00	63.989	-1.29686E+05	333.04	-3.12859E+05	29.712
600.00	63.874	-1.26490E+05	338.60	-3.29652E+05	28.698
650.00	63.768	-1.23299E+05	343.71	-3.46712E+05	27.861
700.00	63.682	-1.20113E+05	348.44	-3.64017E+05	27.163
750.00	63.624	-1.16930E+05	352.83	-3.81550E+05	26.573
800.00	63.599	-1.13750E+05	356.93	-3.99295E+05	26.071
850.00	63.582	-1.10570E+05	360.79	-4.17239E+05	25.640
900.00	63.611	-1.07391E+05	364.42	-4.35370E+05	25.268
950.00	63.676	-1.04209E+05	367.86	-4.53678E+05	24.944
1000.0	63.769	-1.01023E+05	371.13	-4.72154E+05	24.662
1050.0	63.882	-97831.	374.24	-4.90789E+05	24.415
1100.0	64.011	-94634.	377.22	-5.09576E+05	24.197
1150.0	64.152	-91430.	380.07	-5.28509E+05	24.005
1200.0	64.301	-88219.	382.80	-5.47581E+05	23.835
1250.0	64.456	-85000.	385.43	-5.66787E+05	23.684
1300.0	64.616	-81773.	387.96	-5.86122E+05	23.550
1350.0	64.777	-78538.	390.40	-6.05582E+05	23.431
1400.0	64.939	-75295.	392.76	-6.25161E+05	23.324
1450.0	65.100	-72044.	395.04	-6.44856E+05	23.230
1500.0	65.261	-68785.	397.25	-6.64664E+05	23.145
1550.0	65.419	-65518.	399.39	-6.84580E+05	23.070
1600.0	65.574	-62244.	401.47	-7.04602E+05	23.002
1650.0	65.725	-58961.	403.49	-7.24727E+05	22.942
1700.0	65.873	-55671.	405.46	-7.44951E+05	22.889
1750.0	66.016	-52374.	407.37	-7.65272E+05	22.842
1800.0	66.155	-49070.	409.23	-7.85687E+05	22.799
1850.0	66.294	-45758.	411.05	-8.06194E+05	22.762
1900.0	66.420	-42440.	412.82	-8.26791E+05	22.729
1950.0	66.532	-39117.	414.54	-8.47475E+05	22.701
2000.0	66.632	-35787.	416.23	-8.68245E+05	22.676
2050.0	66.721	-32454.	417.88	-8.89097E+05	22.654
2100.0	66.800	-29115.	419.48	-9.10032E+05	22.635
2150.0	66.870	-25774.	421.06	-9.31045E+05	22.619
2200.0	66.932	-22429.	422.59	-9.52137E+05	22.606
2250.0	66.987	-19081.	424.10	-9.73304E+05	22.595
2300.0	67.034	-15730.	425.57	-9.94546E+05	22.586
2350.0	67.074	-12377.	427.01	-1.01586E+06	22.579
2400.0	67.109	-9022.7	428.43	-1.03725E+06	22.575
2450.0	67.137	-5666.5	429.81	-1.05870E+06	22.571
2500.0	67.161	-2309.0	431.17	-1.08023E+06	22.570
2550.0	67.179	1049.5	432.50	-1.10182E+06	22.569
2600.0	67.193	4408.8	433.80	-1.12348E+06	22.570
2650.0	67.203	7768.7	435.08	-1.14520E+06	22.573
2700.0	67.208	11129.	436.34	-1.16698E+06	22.576
2750.0	67.210	14489.	437.57	-1.18883E+06	22.581
2800.0	67.208	17850.	438.78	-1.21074E+06	22.586
2850.0	67.202	21210.	439.97	-1.23271E+06	22.592
2900.0	67.193	24570.	441.14	-1.25474E+06	22.600
2950.0	67.182	27930.	442.29	-1.27682E+06	22.608
3000.0	67.167	31288.	443.42	-1.29897E+06	22.616

FeBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	65.541	-52296.	317.30	-1.46900E+05	25.736
300.00	65.549	-52175.	317.71	-1.47487E+05	25.679
350.00	65.597	-48895.	327.82	-1.63632E+05	24.420
400.00	65.456	-45618.	336.57	-1.80247E+05	23.537
450.00	65.231	-42351.	344.27	-1.97272E+05	22.898
500.00	64.978	-39096.	351.13	-2.14660E+05	22.425
550.00	64.729	-35853.	357.31	-2.32373E+05	22.068
600.00	64.503	-32622.	362.93	-2.50381E+05	21.797
650.00	64.311	-29402.	368.09	-2.68658E+05	21.589
700.00	64.162	-26190.	372.85	-2.87183E+05	21.429
750.00	64.043	-22986.	377.27	-3.05938E+05	21.307
800.00	63.982	-19785.	381.40	-3.24905E+05	21.214
850.00	63.965	-16587.	385.28	-3.44073E+05	21.144
900.00	63.984	-13388.	388.94	-3.63430E+05	21.092
950.00	64.032	-10188.	392.40	-3.82964E+05	21.056
1000.0	64.103	-6984.5	395.68	-4.02666E+05	21.033
1050.0	64.195	-3777.1	398.81	-4.22529E+05	21.019
1100.0	64.303	-564.70	401.80	-4.42545E+05	21.014
1150.0	64.426	2653.5	404.66	-4.62707E+05	21.016
1200.0	64.561	5878.1	407.41	-4.83009E+05	21.024
1250.0	64.707	9109.7	410.04	-5.03446E+05	21.037
1300.0	64.862	12349.	412.59	-5.24012E+05	21.055
1350.0	65.030	15596.	415.04	-5.44703E+05	21.075
1400.0	65.195	18852.	417.40	-5.65514E+05	21.099
1450.0	65.357	22116.	419.70	-5.86442E+05	21.125
1500.0	65.513	25387.	421.91	-6.07483E+05	21.154
1550.0	65.665	28667.	424.06	-6.28632E+05	21.184
1600.0	65.811	31954.	426.15	-6.49888E+05	21.216
1650.0	65.952	35248.	428.18	-6.71246E+05	21.249
1700.0	66.086	38549.	430.15	-6.92705E+05	21.284
1750.0	66.214	41857.	432.07	-7.14260E+05	21.319
1800.0	66.335	45170.	433.93	-7.35911E+05	21.355
1850.0	66.449	48490.	435.75	-7.57653E+05	21.392
1900.0	66.556	51815.	437.53	-7.79485E+05	21.429
1950.0	66.656	55145.	439.26	-8.01405E+05	21.467
2000.0	66.748	58481.	440.95	-8.23410E+05	21.505
2050.0	66.833	61820.	442.59	-8.45499E+05	21.543
2100.0	66.910	65164.	444.21	-8.67669E+05	21.582
2150.0	66.980	68511.	445.78	-8.89919E+05	21.620
2200.0	67.041	71862.	447.32	-9.12247E+05	21.659
2250.0	67.095	75215.	448.83	-9.34651E+05	21.698
2300.0	67.140	78571.	450.30	-9.57129E+05	21.737
2350.0	67.178	81929.	451.75	-9.79680E+05	21.775
2400.0	67.207	85289.	453.16	-1.00230E+06	21.814
2450.0	67.229	88650.	454.55	-1.02500E+06	21.853
2500.0	67.242	92011.	455.91	-1.04776E+06	21.891
2550.0	67.254	95374.	457.24	-1.07059E+06	21.930
2600.0	67.261	98737.	458.55	-1.09348E+06	21.968
2650.0	67.262	1.02100E+05	459.83	-1.11644E+06	22.006
2700.0	67.259	1.05463E+05	461.08	-1.13946E+06	22.044
2750.0	67.251	1.08826E+05	462.32	-1.16255E+06	22.081
2800.0	67.240	1.12188E+05	463.53	-1.18570E+06	22.119
2850.0	67.225	1.15549E+05	464.72	-1.20890E+06	22.156
2900.0	67.207	1.18910E+05	465.89	-1.23217E+06	22.193
2950.0	67.185	1.22270E+05	467.04	-1.25549E+06	22.230
3000.0	67.161	1.25629E+05	468.17	-1.27887E+06	22.267

FeCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.092	-7.40568E+05	92.885	-7.68262E+05	134.59
300.00	82.299	-7.40416E+05	93.393	-7.68434E+05	133.79
350.00	87.906	-7.36161E+05	106.50	-7.73436E+05	115.43
400.00	93.512	-7.31625E+05	118.61	-7.79067E+05	101.73
450.00	99.119	-7.26810E+05	129.94	-7.85284E+05	91.151
500.00	104.73	-7.21713E+05	140.68	-7.92052E+05	82.743
550.00	110.33	-7.16337E+05	150.92	-7.99343E+05	75.913
600.00	115.94	-7.10680E+05	160.76	-8.07137E+05	70.266
650.00	121.55	-7.04743E+05	170.26	-8.15414E+05	65.526
700.00	127.15	-6.98526E+05	179.48	-8.24159E+05	61.498
750.00	132.76	-6.92028E+05	188.44	-8.33357E+05	58.039
800.00	138.36	-6.85250E+05	197.19	-8.42999E+05	55.041
850.00	143.97	-6.78192E+05	205.74	-8.53073E+05	52.422
900.00	149.58	-6.70853E+05	214.13	-8.63570E+05	50.119

Fe(CO)5

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	240.58	-7.63998E+05	337.65	-8.64668E+05	151.48
300.00	240.58	-7.63553E+05	339.14	-8.65294E+05	150.66
350.00	240.58	-7.51524E+05	376.22	-8.83202E+05	131.81
400.00	240.58	-7.39495E+05	408.35	-9.02834E+05	117.90
450.00	240.58	-7.27466E+05	436.68	-9.23974E+05	107.25
500.00	240.58	-7.15437E+05	462.03	-9.46453E+05	98.873
550.00	240.58	-7.03408E+05	484.96	-9.70137E+05	92.134
600.00	240.58	-6.91379E+05	505.89	-9.94916E+05	86.613
650.00	240.58	-6.79350E+05	525.15	-1.02070E+06	82.022
700.00	240.58	-6.67321E+05	542.98	-1.04741E+06	78.157
750.00	240.58	-6.55292E+05	559.58	-1.07498E+06	74.866
800.00	240.58	-6.43263E+05	575.11	-1.10335E+06	72.039
850.00	240.58	-6.31234E+05	589.69	-1.13247E+06	69.591
900.00	240.58	-6.19205E+05	603.44	-1.16230E+06	67.457
950.00	240.58	-6.07176E+05	616.45	-1.19280E+06	65.583
1000.0	240.58	-5.95147E+05	628.79	-1.22394E+06	63.930

Fe(CO)5<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	170.70	-7.27849E+05	439.29	-8.58822E+05	150.46
300.00	171.15	-7.27532E+05	440.34	-8.59636E+05	149.67
350.00	181.44	-7.18704E+05	467.54	-8.82344E+05	131.68
400.00	189.26	-7.09429E+05	492.30	-9.06349E+05	118.35
450.00	195.60	-6.99803E+05	514.97	-9.31539E+05	108.13
500.00	200.95	-6.89886E+05	535.86	-9.57816E+05	100.06
550.00	205.62	-6.79719E+05	555.24	-9.85100E+05	93.555
600.00	209.76	-6.69333E+05	573.31	-1.01332E+06	88.215
650.00	213.50	-6.58750E+05	590.25	-1.04241E+06	83.767
700.00	216.91	-6.47988E+05	606.20	-1.07233E+06	80.016
750.00	220.03	-6.37063E+05	621.27	-1.10302E+06	76.819
800.00	222.90	-6.25989E+05	635.56	-1.13444E+06	74.070
850.00	225.54	-6.14777E+05	649.16	-1.16656E+06	71.686
900.00	227.98	-6.03438E+05	662.12	-1.19935E+06	69.606
950.00	230.21	-5.91983E+05	674.51	-1.23276E+06	67.780
1000.0	232.26	-5.80420E+05	686.37	-1.26679E+06	66.169
1050.0	234.14	-5.68759E+05	697.75	-1.30139E+06	64.739
1100.0	235.84	-5.57009E+05	708.68	-1.33656E+06	63.466
1150.0	237.37	-5.45178E+05	719.20	-1.37225E+06	62.328
1200.0	238.74	-5.33275E+05	729.33	-1.40847E+06	61.307
1250.0	239.95	-5.21307E+05	739.10	-1.44518E+06	60.389
1300.0	240.99	-5.09283E+05	748.53	-1.48237E+06	59.561
1350.0	241.89	-4.97210E+05	757.64	-1.52003E+06	58.812
1400.0	242.93	-4.85090E+05	766.46	-1.55813E+06	58.133
1450.0	243.87	-4.72919E+05	775.00	-1.59667E+06	57.517
1500.0	244.73	-4.60704E+05	783.28	-1.63563E+06	56.956
1550.0	245.51	-4.48447E+05	791.32	-1.67499E+06	56.445
1600.0	246.23	-4.36153E+05	799.13	-1.71476E+06	55.980
1650.0	246.88	-4.23825E+05	806.71	-1.75490E+06	55.554
1700.0	247.49	-4.11466E+05	814.09	-1.79542E+06	55.165
1750.0	248.05	-3.99077E+05	821.28	-1.83631E+06	54.809
1800.0	248.57	-3.86662E+05	828.27	-1.87755E+06	54.484
1850.0	249.05	-3.74221E+05	835.09	-1.91913E+06	54.185
1900.0	249.49	-3.61758E+05	841.74	-1.96105E+06	53.912
1950.0	249.91	-3.49272E+05	848.22	-2.00330E+06	53.661
2000.0	250.30	-3.36767E+05	854.55	-2.04587E+06	53.431
2050.0	250.67	-3.24243E+05	860.74	-2.08876E+06	53.221
2100.0	251.01	-3.11700E+05	866.78	-2.13195E+06	53.028
2150.0	251.34	-2.99142E+05	872.69	-2.17543E+06	52.851
2200.0	251.64	-2.86567E+05	878.48	-2.21921E+06	52.689
2250.0	251.93	-2.73977E+05	884.13	-2.26328E+06	52.542
2300.0	252.21	-2.61374E+05	889.67	-2.30762E+06	52.406
2350.0	252.47	-2.48757E+05	895.10	-2.35224E+06	52.283
2400.0	252.71	-2.36127E+05	900.42	-2.39713E+06	52.171
2450.0	252.95	-2.23486E+05	905.63	-2.44228E+06	52.069
2500.0	253.17	-2.10833E+05	910.74	-2.48769E+06	51.976
2550.0	253.38	-1.98169E+05	915.76	-2.53336E+06	51.892
2600.0	253.59	-1.85495E+05	920.68	-2.57927E+06	51.817
2650.0	253.78	-1.72810E+05	925.51	-2.62542E+06	51.749
2700.0	253.97	-1.60116E+05	930.26	-2.67182E+06	51.688
2750.0	254.15	-1.47413E+05	934.92	-2.71845E+06	51.634
2800.0	254.32	-1.34702E+05	939.50	-2.76531E+06	51.586
2850.0	254.48	-1.21982E+05	944.01	-2.81240E+06	51.544
2900.0	254.64	-1.09253E+05	948.43	-2.85971E+06	51.508
2950.0	254.80	-96517.	952.79	-2.90724E+06	51.476
3000.0	254.94	-83774.	957.07	-2.95499E+06	51.450

Fe2B

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	66.797	-1.02508E+05	51.639	-1.17904E+05	20.656
300.00	67.026	-1.02384E+05	52.053	-1.18000E+05	20.545
350.00	72.049	-98899.	62.788	-1.20875E+05	18.039
400.00	75.557	-95204.	72.650	-1.24264E+05	16.227
450.00	78.184	-91358.	81.708	-1.28126E+05	14.872
500.00	80.265	-87395.	90.057	-1.32423E+05	13.834
550.00	81.988	-83337.	97.790	-1.37122E+05	13.022
600.00	83.469	-79200.	104.99	-1.42193E+05	12.379
650.00	84.777	-74993.	111.72	-1.47613E+05	11.862
700.00	85.962	-70724.	118.05	-1.53359E+05	11.443
750.00	87.054	-66399.	124.02	-1.59412E+05	11.102
800.00	88.076	-62020.	129.67	-1.65755E+05	10.822
850.00	89.044	-57592.	135.04	-1.72374E+05	10.593
900.00	89.970	-53116.	140.15	-1.79255E+05	10.403
950.00	90.863	-48595.	145.04	-1.86386E+05	10.248
1000.0	91.728	-44031.	149.73	-1.93756E+05	10.121
1050.0	92.571	-39423.	154.22	-2.01355E+05	10.017
1100.0	93.396	-34774.	158.55	-2.09175E+05	9.9326
1150.0	94.206	-30084.	162.72	-2.17207E+05	9.8656
1200.0	95.004	-25353.	166.74	-2.25444E+05	9.8131
1250.0	95.791	-20583.	170.64	-2.33879E+05	9.7730
1300.0	96.568	-15774.	174.41	-2.42506E+05	9.7438
1350.0	97.338	-10927.	178.07	-2.51318E+05	9.7238
1400.0	98.102	-6040.7	181.62	-2.60311E+05	9.7121
1450.0	98.860	-1116.6	185.08	-2.69479E+05	9.7074
1500.0	99.612	3845.2	188.44	-2.78817E+05	9.7090
1550.0	100.36	8844.5	191.72	-2.88321E+05	9.7161
1600.0	101.11	13881.	194.92	-2.97988E+05	9.7281
1650.0	101.85	18955.	198.04	-3.07812E+05	9.7443
1700.0	102.58	24066.	201.09	-3.17791E+05	9.7643

FeB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	41.057	-72500.	31.079	-81767.	14.325
300.00	41.222	-72424.	31.333	-81824.	14.247
350.00	44.847	-70267.	37.979	-83559.	12.470
400.00	47.375	-67958.	44.141	-85614.	11.180
450.00	49.265	-65540.	49.835	-87965.	10.210
500.00	50.760	-63038.	55.106	-90591.	9.4637
550.00	51.996	-60468.	60.003	-93470.	8.8768
600.00	53.056	-57841.	64.574	-96585.	8.4083
650.00	53.991	-55164.	68.859	-99922.	8.0297
700.00	54.837	-52443.	72.891	-1.03467E+05	7.7206
750.00	55.616	-49682.	76.701	-1.07208E+05	7.4664
800.00	56.344	-46883.	80.314	-1.11134E+05	7.2561
850.00	57.033	-44048.	83.751	-1.15236E+05	7.0814
900.00	57.691	-41180.	87.030	-1.19506E+05	6.9358
950.00	58.325	-38279.	90.166	-1.23937E+05	6.8144
1000.0	58.940	-35348.	93.173	-1.28521E+05	6.7131
1050.0	59.539	-32386.	96.063	-1.33252E+05	6.6288
1100.0	60.124	-29394.	98.847	-1.38125E+05	6.5589
1150.0	60.698	-26373.	101.53	-1.43135E+05	6.5012
1200.0	61.264	-23324.	104.13	-1.48277E+05	6.4542
1250.0	61.822	-20247.	106.64	-1.53547E+05	6.4162
1300.0	62.373	-17142.	109.08	-1.58940E+05	6.3861
1350.0	62.918	-14010.	111.44	-1.64453E+05	6.3629
1400.0	63.459	-10850.	113.74	-1.70083E+05	6.3457
1450.0	63.996	-7664.1	115.97	-1.75826E+05	6.3338
1500.0	64.529	-4450.9	118.15	-1.81679E+05	6.3265
1550.0	65.059	-1211.2	120.28	-1.87640E+05	6.3233
1600.0	65.586	2054.9	122.35	-1.93706E+05	6.3237
1650.0	66.111	5347.3	124.38	-1.99874E+05	6.3273
1700.0	66.633	8665.9	126.36	-2.06143E+05	6.3338
1750.0	67.154	12011.	128.30	-2.12509E+05	6.3429
1800.0	67.673	15381.	130.20	-2.18972E+05	6.3542
1850.0	68.190	18778.	132.06	-2.25528E+05	6.3676
1900.0	68.706	22200.	133.88	-2.32177E+05	6.3828
1931.0	69.026	24335.	135.00	-2.36345E+05	6.3931
1931.0	90.000	86995.	167.45	-2.36345E+05	6.3931
1950.0	90.000	88705.	168.33	-2.39535E+05	6.4162
2000.0	90.000	93205.	170.61	-2.48008E+05	6.4771
2050.0	90.000	97705.	172.83	-2.56594E+05	6.5379
2100.0	90.000	1.02205E+05	175.00	-2.65290E+05	6.5986
2150.0	90.000	1.06705E+05	177.12	-2.74093E+05	6.6590
2200.0	90.000	1.11205E+05	179.18	-2.83001E+05	6.7191
2250.0	90.000	1.15705E+05	181.21	-2.92011E+05	6.7790
2300.0	90.000	1.20205E+05	183.18	-3.01121E+05	6.8385
2350.0	90.000	1.24705E+05	185.12	-3.10329E+05	6.8977
2400.0	90.000	1.29205E+05	187.02	-3.19632E+05	6.9564
2450.0	90.000	1.33705E+05	188.87	-3.29029E+05	7.0148
2500.0	90.000	1.38205E+05	190.69	-3.38519E+05	7.0728

Ga

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.121	0.00000E+00	40.727	-12143.	2.1273
300.00	26.189	48.387	40.889	-12218.	2.1273
302.91	26.302	124.75	41.142	-12338.	2.1275
302.91	28.579	5714.6	59.596	-12338.	2.1275
350.00	27.925	7043.9	63.676	-15243.	2.2748
400.00	27.467	8427.9	67.373	-18521.	2.4186
450.00	27.151	9792.9	70.589	-21972.	2.5504
500.00	26.926	11145.	73.437	-25574.	2.6716
550.00	26.759	12486.	75.995	-29311.	2.7836
600.00	26.633	13821.	78.318	-33170.	2.8876
650.00	26.536	15150.	80.446	-37139.	2.9845
700.00	26.460	16475.	82.409	-41211.	3.0752
750.00	26.400	17796.	84.233	-45378.	3.1603
800.00	26.352	19115.	85.935	-49633.	3.2406
850.00	26.315	20432.	87.531	-53970.	3.3165
900.00	26.286	21747.	89.034	-58384.	3.3884
950.00	26.263	23060.	90.455	-62872.	3.4568
1000.0	26.246	24373.	91.802	-67429.	3.5220
1050.0	26.233	25685.	93.082	-72051.	3.5842
1100.0	26.225	26997.	94.302	-76736.	3.6438
1150.0	26.221	28308.	95.468	-81480.	3.7009
1200.0	26.219	29619.	96.584	-86282.	3.7556
1250.0	26.221	30930.	97.654	-91138.	3.8083
1300.0	26.225	32241.	98.682	-96046.	3.8591
1350.0	26.232	33552.	99.672	-1.01005E+05	3.9080
1400.0	26.241	34864.	100.63	-1.06013E+05	3.9553
1450.0	26.252	36176.	101.55	-1.11067E+05	4.0010
1500.0	26.265	37489.	102.44	-1.16167E+05	4.0452
1550.0	26.280	38803.	103.30	-1.21311E+05	4.0880
1600.0	26.297	40117.	104.13	-1.26497E+05	4.1296
1650.0	26.315	41433.	104.94	-1.31724E+05	4.1699
1700.0	26.336	42749.	105.73	-1.36991E+05	4.2091
1750.0	26.358	44066.	106.49	-1.42296E+05	4.2472
1800.0	26.381	45385.	107.24	-1.47640E+05	4.2843
1850.0	26.406	46704.	107.96	-1.53020E+05	4.3204
1900.0	26.433	48025.	108.66	-1.58435E+05	4.3556
1950.0	26.461	49348.	109.35	-1.63886E+05	4.3899
2000.0	26.490	50671.	110.02	-1.69370E+05	4.4234
2050.0	26.521	51997.	110.68	-1.74887E+05	4.4561
2100.0	26.553	53324.	111.31	-1.80437E+05	4.4880
2150.0	26.587	54652.	111.94	-1.86019E+05	4.5192
2200.0	26.622	55982.	112.55	-1.91631E+05	4.5498
2250.0	26.659	57314.	113.15	-1.97274E+05	4.5797
2300.0	26.696	58648.	113.74	-2.02946E+05	4.6089
2350.0	26.735	59984.	114.31	-2.08647E+05	4.6376
2400.0	26.776	61322.	114.87	-2.14377E+05	4.6657
2450.0	26.818	62662.	115.43	-2.20134E+05	4.6932
2500.0	26.861	64004.	115.97	-2.25919E+05	4.7202
2550.0	26.905	65348.	116.50	-2.31731E+05	4.7467
2600.0	26.951	66694.	117.02	-2.37569E+05	4.7727
2650.0	26.998	68043.	117.54	-2.43433E+05	4.7982
2700.0	27.046	69394.	118.04	-2.49323E+05	4.8233
2750.0	27.095	70747.	118.54	-2.55237E+05	4.8480
2800.0	27.146	72103.	119.03	-2.61177E+05	4.8722
2850.0	27.198	73462.	119.51	-2.67140E+05	4.8960
2900.0	27.251	74823.	119.98	-2.73128E+05	4.9194
2950.0	27.306	76187.	120.45	-2.79138E+05	4.9425
3000.0	27.361	77554.	120.91	-2.85172E+05	4.9652

GaCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.687	-69622.	240.25	-1.41253E+05	24.746
300.00	35.711	-69556.	240.47	-1.41698E+05	24.671
350.00	36.241	-67756.	246.02	-1.53863E+05	22.962
400.00	36.590	-65935.	250.88	-1.66288E+05	21.714
450.00	36.834	-64099.	255.21	-1.78942E+05	20.771
500.00	37.014	-62252.	259.10	-1.91802E+05	20.037
550.00	37.152	-60398.	262.63	-2.04846E+05	19.454
600.00	37.261	-58538.	265.87	-2.18060E+05	18.983
650.00	37.351	-56672.	268.86	-2.31429E+05	18.597
700.00	37.426	-54803.	271.63	-2.44942E+05	18.277
750.00	37.491	-52930.	274.21	-2.58589E+05	18.009
800.00	37.549	-51054.	276.63	-2.72361E+05	17.783
850.00	37.600	-49175.	278.91	-2.86250E+05	17.590
900.00	37.647	-47294.	281.06	-3.00250E+05	17.426
950.00	37.691	-45410.	283.10	-3.14354E+05	17.284
1000.0	37.732	-43525.	285.03	-3.28558E+05	17.162
1050.0	37.772	-41637.	286.87	-3.42856E+05	17.056
1100.0	37.810	-39748.	288.63	-3.57244E+05	16.964
1150.0	37.846	-37856.	290.31	-3.71718E+05	16.884
1200.0	37.882	-35963.	291.93	-3.86274E+05	16.814
1250.0	37.918	-34068.	293.47	-4.00909E+05	16.753
1300.0	37.952	-32171.	294.96	-4.15620E+05	16.699
1350.0	37.987	-30273.	296.39	-4.30404E+05	16.653
1400.0	38.022	-28373.	297.78	-4.45259E+05	16.612
1450.0	38.056	-26471.	299.11	-4.60181E+05	16.577
1500.0	38.091	-24567.	300.40	-4.75169E+05	16.546
1550.0	38.126	-22662.	301.65	-4.90221E+05	16.520
1600.0	38.161	-20754.	302.86	-5.05334E+05	16.497
1650.0	38.196	-18846.	304.04	-5.20506E+05	16.477
1700.0	38.232	-16935.	305.18	-5.35737E+05	16.461
1750.0	38.268	-15022.	306.29	-5.51024E+05	16.447
1800.0	38.304	-13108.	307.36	-5.66365E+05	16.435
1850.0	38.341	-11192.	308.41	-5.81760E+05	16.426
1900.0	38.378	-9274.0	309.44	-5.97206E+05	16.418
1950.0	38.416	-7354.1	310.44	-6.12703E+05	16.412
2000.0	38.454	-5432.4	311.41	-6.28249E+05	16.408
2050.0	38.493	-3508.7	312.36	-6.43843E+05	16.405
2100.0	38.532	-1583.1	313.29	-6.59485E+05	16.403
2150.0	38.572	344.53	314.19	-6.75172E+05	16.403
2200.0	38.612	2274.1	315.08	-6.90904E+05	16.404
2250.0	38.653	4205.8	315.95	-7.06679E+05	16.405
2300.0	38.695	6139.5	316.80	-7.22498E+05	16.408
2350.0	38.737	8075.3	317.63	-7.38359E+05	16.411
2400.0	38.780	10013.	318.45	-7.54261E+05	16.416
2450.0	38.823	11953.	319.25	-7.70203E+05	16.421
2500.0	38.867	13896.	320.03	-7.86186E+05	16.426
2550.0	38.912	15840.	320.80	-8.02206E+05	16.432
2600.0	38.957	17787.	321.56	-8.18266E+05	16.439
2650.0	39.003	19736.	322.30	-8.34362E+05	16.446
2700.0	39.049	21687.	323.03	-8.50495E+05	16.453
2750.0	39.096	23641.	323.75	-8.66665E+05	16.461
2800.0	39.144	25597.	324.45	-8.82870E+05	16.470
2850.0	39.192	27555.	325.15	-8.99110E+05	16.478
2900.0	39.241	29516.	325.83	-9.15384E+05	16.487
2950.0	39.291	31479.	326.50	-9.31693E+05	16.497
3000.0	39.341	33445.	327.16	-9.48034E+05	16.506

GaCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.818	-2.20979E+05	302.92	-3.11296E+05	54.536
300.00	53.870	-2.20879E+05	303.26	-3.11857E+05	54.298
350.00	54.987	-2.18156E+05	311.65	-3.27234E+05	48.836
400.00	55.709	-2.15387E+05	319.05	-3.43005E+05	44.791
450.00	56.201	-2.12589E+05	325.64	-3.59126E+05	41.685
500.00	56.552	-2.09769E+05	331.58	-3.75558E+05	39.233
550.00	56.811	-2.06935E+05	336.98	-3.92274E+05	37.254
600.00	57.007	-2.04089E+05	341.93	-4.09249E+05	35.627
650.00	57.161	-2.01235E+05	346.50	-4.26461E+05	34.270
700.00	57.283	-1.98374E+05	350.74	-4.43894E+05	33.123
750.00	57.383	-1.95507E+05	354.70	-4.61531E+05	32.143
800.00	57.466	-1.92636E+05	358.40	-4.79359E+05	31.298
850.00	57.536	-1.89761E+05	361.89	-4.97368E+05	30.564
900.00	57.597	-1.86882E+05	365.18	-5.15545E+05	29.921
950.00	57.651	-1.84001E+05	368.30	-5.33883E+05	29.354
1000.0	57.699	-1.81117E+05	371.25	-5.52372E+05	28.852
1050.0	57.743	-1.78231E+05	374.07	-5.71006E+05	28.405
1100.0	57.784	-1.75343E+05	376.76	-5.89777E+05	28.005
1150.0	57.823	-1.72453E+05	379.33	-6.08680E+05	27.646
1200.0	57.859	-1.69561E+05	381.79	-6.27708E+05	27.323
1250.0	57.895	-1.66667E+05	384.15	-6.46857E+05	27.030
1300.0	57.929	-1.63771E+05	386.42	-6.66122E+05	26.764
1350.0	57.964	-1.60874E+05	388.61	-6.85498E+05	26.523
1400.0	57.998	-1.57975E+05	390.72	-7.04981E+05	26.303
1450.0	58.032	-1.55074E+05	392.75	-7.24569E+05	26.101
1500.0	58.066	-1.52172E+05	394.72	-7.44256E+05	25.917
1550.0	58.101	-1.49268E+05	396.63	-7.64040E+05	25.747
1600.0	58.136	-1.46362E+05	398.47	-7.83918E+05	25.592
1650.0	58.172	-1.43454E+05	400.26	-8.03886E+05	25.448
1700.0	58.209	-1.40544E+05	402.00	-8.23943E+05	25.316
1750.0	58.247	-1.37633E+05	403.69	-8.44085E+05	25.194
1800.0	58.286	-1.34720E+05	405.33	-8.64311E+05	25.081
1850.0	58.325	-1.31804E+05	406.93	-8.84617E+05	24.976
1900.0	58.366	-1.28887E+05	408.48	-9.05003E+05	24.880
1950.0	58.408	-1.25968E+05	410.00	-9.25465E+05	24.790
2000.0	58.451	-1.23046E+05	411.48	-9.46002E+05	24.706
2050.0	58.495	-1.20123E+05	412.92	-9.66612E+05	24.629
2100.0	58.541	-1.17197E+05	414.33	-9.87293E+05	24.557
2150.0	58.588	-1.14269E+05	415.71	-1.00804E+06	24.490
2200.0	58.636	-1.11338E+05	417.06	-1.02886E+06	24.428
2250.0	58.685	-1.08405E+05	418.38	-1.04975E+06	24.370
2300.0	58.736	-1.05469E+05	419.67	-1.07070E+06	24.316
2350.0	58.803	-1.02531E+05	420.93	-1.09172E+06	24.266
2400.0	58.870	-99589.	422.17	-1.11279E+06	24.219
2450.0	58.939	-96644.	423.38	-1.13393E+06	24.175
2500.0	59.008	-93695.	424.57	-1.15513E+06	24.135
2550.0	59.079	-90743.	425.74	-1.17639E+06	24.097
2600.0	59.150	-87787.	426.89	-1.19771E+06	24.062
2650.0	59.221	-84828.	428.02	-1.21908E+06	24.029
2700.0	59.292	-81865.	429.13	-1.24051E+06	23.998
2750.0	59.364	-78899.	430.22	-1.26199E+06	23.970
2800.0	59.435	-75929.	431.29	-1.28353E+06	23.944
2850.0	59.507	-72955.	432.34	-1.30512E+06	23.920
2900.0	59.578	-69978.	433.37	-1.32676E+06	23.897
2950.0	59.649	-66998.	434.39	-1.34846E+06	23.876
3000.0	59.719	-64013.	435.40	-1.37020E+06	23.857

GaBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.521	-17968.	251.83	-93050.	16.302
300.00	36.537	-17900.	252.05	-93516.	16.282
350.00	36.883	-16064.	257.71	-1.06264E+05	15.859
400.00	37.113	-14214.	262.65	-1.19276E+05	15.575
450.00	37.275	-12354.	267.04	-1.32520E+05	15.382
500.00	37.395	-10487.	270.97	-1.45972E+05	15.249
550.00	37.488	-8615.1	274.54	-1.59611E+05	15.158
600.00	37.564	-6738.7	277.80	-1.73421E+05	15.097
650.00	37.628	-4858.8	280.81	-1.87387E+05	15.058
700.00	37.683	-2976.0	283.60	-2.01498E+05	15.036
750.00	37.733	-1090.6	286.20	-2.15744E+05	15.025
800.00	37.778	797.20	288.64	-2.30116E+05	15.025
850.00	37.821	2687.2	290.93	-2.44606E+05	15.031
900.00	37.861	4579.2	293.10	-2.59207E+05	15.044
950.00	37.900	6473.3	295.14	-2.73913E+05	15.060
1000.0	37.939	8369.3	297.09	-2.88720E+05	15.081
1050.0	37.977	10267.	298.94	-3.03621E+05	15.104
1100.0	38.015	12167.	300.71	-3.18612E+05	15.129
1150.0	38.053	14069.	302.40	-3.33690E+05	15.156
1200.0	38.091	15972.	304.02	-3.48851E+05	15.185
1250.0	38.130	17878.	305.58	-3.64091E+05	15.214
1300.0	38.169	19785.	307.07	-3.79408E+05	15.244
1350.0	38.210	21695.	308.51	-3.94797E+05	15.275
1400.0	38.251	23606.	309.90	-4.10258E+05	15.307
1450.0	38.292	25520.	311.25	-4.25787E+05	15.338
1500.0	38.335	27435.	312.54	-4.41382E+05	15.370
1550.0	38.379	29353.	313.80	-4.57041E+05	15.402
1600.0	38.424	31273.	315.02	-4.72761E+05	15.434
1650.0	38.470	33196.	316.20	-4.88542E+05	15.466
1700.0	38.517	35120.	317.35	-5.04381E+05	15.497
1750.0	38.565	37047.	318.47	-5.20277E+05	15.529
1800.0	38.614	38977.	319.56	-5.36228E+05	15.561
1850.0	38.665	40909.	320.62	-5.52233E+05	15.592
1900.0	38.716	42843.	321.65	-5.68289E+05	15.623
1950.0	38.769	44780.	322.66	-5.84397E+05	15.654
2000.0	38.823	46720.	323.64	-6.00554E+05	15.684
2050.0	38.878	48663.	324.60	-6.16760E+05	15.715
2100.0	38.934	50608.	325.53	-6.33014E+05	15.745
2150.0	38.992	52556.	326.45	-6.49313E+05	15.775
2200.0	39.051	54507.	327.35	-6.65658E+05	15.804
2250.0	39.111	56461.	328.23	-6.82048E+05	15.834
2300.0	39.173	58418.	329.09	-6.98481E+05	15.863
2350.0	39.235	60379.	329.93	-7.14956E+05	15.891
2400.0	39.299	62342.	330.76	-7.31473E+05	15.920
2450.0	39.364	64309.	331.57	-7.48032E+05	15.948
2500.0	39.431	66278.	332.36	-7.64630E+05	15.976
2550.0	39.499	68252.	333.14	-7.81268E+05	16.003
2600.0	39.568	70228.	333.91	-7.97944E+05	16.030
2650.0	39.638	72209.	334.67	-8.14659E+05	16.057
2700.0	39.710	74192.	335.41	-8.31411E+05	16.084
2750.0	39.783	76180.	336.14	-8.48199E+05	16.111
2800.0	39.857	78170.	336.86	-8.65024E+05	16.137
2850.0	39.932	80165.	337.56	-8.81885E+05	16.163
2900.0	40.009	82164.	338.26	-8.98780E+05	16.188
2950.0	40.087	84166.	338.94	-9.15710E+05	16.214
3000.0	40.167	86173.	339.62	-9.32674E+05	16.239

GaBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.430	-2.92963E+05	359.41	-4.00121E+05	70.098
300.00	78.487	-2.92818E+05	359.90	-4.00786E+05	69.781
350.00	79.700	-2.88861E+05	372.09	-4.19093E+05	62.545
400.00	80.488	-2.84855E+05	382.79	-4.37971E+05	57.192
450.00	81.030	-2.80816E+05	392.30	-4.57353E+05	53.087
500.00	81.417	-2.76754E+05	400.86	-4.77185E+05	49.850
550.00	81.705	-2.72676E+05	408.64	-4.97426E+05	47.240
600.00	81.924	-2.68585E+05	415.75	-5.18038E+05	45.098
650.00	82.095	-2.64484E+05	422.32	-5.38992E+05	43.313
700.00	82.232	-2.60376E+05	428.41	-5.60262E+05	41.806
750.00	82.342	-2.56262E+05	434.09	-5.81826E+05	40.521
800.00	82.433	-2.52142E+05	439.40	-6.03664E+05	39.414
850.00	82.508	-2.48019E+05	444.40	-6.25761E+05	38.454
900.00	82.572	-2.43892E+05	449.12	-6.48100E+05	37.614
950.00	82.626	-2.39762E+05	453.59	-6.70669E+05	36.875
1000.0	82.672	-2.35629E+05	457.83	-6.93455E+05	36.221
1050.0	82.713	-2.31495E+05	461.86	-7.16448E+05	35.640
1100.0	82.748	-2.27358E+05	465.71	-7.39638E+05	35.122
1150.0	82.779	-2.23220E+05	469.39	-7.63016E+05	34.656
1200.0	82.806	-2.19080E+05	472.91	-7.86574E+05	34.238
1250.0	82.830	-2.14939E+05	476.29	-8.10305E+05	33.860
1300.0	82.852	-2.10797E+05	479.54	-8.34201E+05	33.518
1350.0	82.872	-2.06654E+05	482.67	-8.58257E+05	33.207
1400.0	82.889	-2.02510E+05	485.68	-8.82466E+05	32.924
1450.0	82.905	-1.98365E+05	488.59	-9.06823E+05	32.666
1500.0	82.920	-1.94220E+05	491.40	-9.31324E+05	32.431
1550.0	82.933	-1.90073E+05	494.12	-9.55962E+05	32.215
1600.0	82.946	-1.85926E+05	496.76	-9.80734E+05	32.017
1650.0	82.957	-1.81779E+05	499.31	-1.00564E+06	31.835
1700.0	82.967	-1.77631E+05	501.78	-1.03066E+06	31.668
1750.0	82.977	-1.73482E+05	504.19	-1.05581E+06	31.514
1800.0	82.986	-1.69333E+05	506.53	-1.08108E+06	31.371
1850.0	82.994	-1.65183E+05	508.80	-1.10647E+06	31.240
1900.0	83.002	-1.61033E+05	511.01	-1.13196E+06	31.119
1950.0	83.009	-1.56883E+05	513.17	-1.15757E+06	31.007
2000.0	83.016	-1.52733E+05	515.27	-1.18328E+06	30.903
2050.0	83.022	-1.48582E+05	517.32	-1.20909E+06	30.807
2100.0	83.028	-1.44430E+05	519.32	-1.23501E+06	30.718
2150.0	83.034	-1.40279E+05	521.28	-1.26102E+06	30.636
2200.0	83.039	-1.36127E+05	523.19	-1.28714E+06	30.560
2250.0	83.044	-1.31975E+05	525.05	-1.31334E+06	30.489
2300.0	83.049	-1.27822E+05	526.88	-1.33964E+06	30.423
2350.0	83.054	-1.23670E+05	528.66	-1.36603E+06	30.363
2400.0	83.058	-1.19517E+05	530.41	-1.39251E+06	30.306
2450.0	83.062	-1.15364E+05	532.12	-1.41907E+06	30.254
2500.0	83.066	-1.11211E+05	533.80	-1.44572E+06	30.206
2550.0	83.069	-1.07057E+05	535.45	-1.47245E+06	30.161
2600.0	83.073	-1.02904E+05	537.06	-1.49926E+06	30.120
2650.0	83.076	-98750.	538.64	-1.52615E+06	30.082
2700.0	83.079	-94596.	540.20	-1.55313E+06	30.046
2750.0	83.082	-90442.	541.72	-1.58017E+06	30.014
2800.0	83.085	-86288.	543.22	-1.60730E+06	29.984
2850.0	83.088	-82134.	544.69	-1.63449E+06	29.956
2900.0	83.091	-77979.	546.13	-1.66177E+06	29.931
2950.0	83.093	-73825.	547.55	-1.68911E+06	29.908
3000.0	83.095	-69670.	548.95	-1.71652E+06	29.887

(GaBr3)2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	174.07	-6.73689E+05	568.12	-8.43073E+05	147.70
300.00	174.17	-6.73367E+05	569.20	-8.44125E+05	146.97
350.00	176.46	-6.64597E+05	596.23	-8.73277E+05	130.33
400.00	177.95	-6.55734E+05	619.90	-9.03692E+05	118.01
450.00	178.97	-6.46810E+05	640.92	-9.35223E+05	108.56
500.00	179.70	-6.37842E+05	659.81	-9.67749E+05	101.10
550.00	180.24	-6.28843E+05	676.97	-1.00117E+06	95.081
600.00	180.65	-6.19821E+05	692.67	-1.03542E+06	90.139
650.00	180.97	-6.10780E+05	707.14	-1.07042E+06	86.018
700.00	181.23	-6.01724E+05	720.56	-1.10612E+06	82.537
750.00	181.43	-5.92658E+05	733.07	-1.14246E+06	79.566
800.00	181.60	-5.83582E+05	744.79	-1.17941E+06	77.006
850.00	181.75	-5.74498E+05	755.80	-1.21693E+06	74.781
900.00	181.87	-5.65407E+05	766.19	-1.25498E+06	72.835
950.00	181.97	-5.56311E+05	776.03	-1.29354E+06	71.122
1000.0	182.05	-5.47211E+05	785.37	-1.33258E+06	69.605
1050.0	182.13	-5.38106E+05	794.25	-1.37207E+06	68.255
1100.0	182.19	-5.28998E+05	802.72	-1.41199E+06	67.048
1150.0	182.25	-5.19887E+05	810.82	-1.45233E+06	65.965
1200.0	182.30	-5.10773E+05	818.58	-1.49307E+06	64.990
1250.0	182.35	-5.01657E+05	826.02	-1.53419E+06	64.109
1300.0	182.39	-4.92539E+05	833.18	-1.57567E+06	63.310
1350.0	182.42	-4.83418E+05	840.06	-1.61750E+06	62.583
1400.0	182.46	-4.74296E+05	846.70	-1.65967E+06	61.922
1450.0	182.49	-4.65173E+05	853.10	-1.70217E+06	61.317
1500.0	182.51	-4.56048E+05	859.29	-1.74498E+06	60.764
1550.0	182.54	-4.46922E+05	865.27	-1.78809E+06	60.257
1600.0	182.56	-4.37794E+05	871.07	-1.83150E+06	59.791
1650.0	182.58	-4.28666E+05	876.68	-1.87520E+06	59.362
1700.0	182.60	-4.19536E+05	882.14	-1.91917E+06	58.967
1750.0	182.62	-4.10406E+05	887.43	-1.96341E+06	58.603
1800.0	182.63	-4.01275E+05	892.57	-2.00791E+06	58.266
1850.0	182.65	-3.92143E+05	897.58	-2.05266E+06	57.955
1900.0	182.66	-3.83010E+05	902.45	-2.09766E+06	57.667
1950.0	182.67	-3.73877E+05	907.19	-2.14290E+06	57.401
2000.0	182.69	-3.64743E+05	911.82	-2.18838E+06	57.153
2050.0	182.70	-3.55608E+05	916.33	-2.23408E+06	56.924
2100.0	182.71	-3.46473E+05	920.73	-2.28001E+06	56.711
2150.0	182.72	-3.37337E+05	925.03	-2.32616E+06	56.513
2200.0	182.73	-3.28201E+05	929.23	-2.37251E+06	56.329
2250.0	182.74	-3.19064E+05	933.34	-2.41908E+06	56.158
2300.0	182.75	-3.09927E+05	937.36	-2.46585E+06	56.000
2350.0	182.75	-3.00790E+05	941.29	-2.51281E+06	55.852
2400.0	182.76	-2.91652E+05	945.13	-2.55997E+06	55.715
2450.0	182.77	-2.82514E+05	948.90	-2.60732E+06	55.587
2500.0	182.78	-2.73375E+05	952.59	-2.65486E+06	55.469
2550.0	182.78	-2.64236E+05	956.21	-2.70258E+06	55.359
2600.0	182.79	-2.55097E+05	959.76	-2.75048E+06	55.256
2650.0	182.79	-2.45957E+05	963.25	-2.79856E+06	55.161
2700.0	182.80	-2.36818E+05	966.66	-2.84681E+06	55.073
2750.0	182.80	-2.27678E+05	970.02	-2.89522E+06	54.992
2800.0	182.81	-2.18537E+05	973.31	-2.94381E+06	54.916
2850.0	182.81	-2.09397E+05	976.55	-2.99255E+06	54.846
2900.0	182.82	-2.00256E+05	979.73	-3.04146E+06	54.781
2950.0	182.82	-1.91115E+05	982.85	-3.09052E+06	54.721
3000.0	182.83	-1.81974E+05	985.92	-3.13974E+06	54.666

Gd

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	39.759	0.00000E+00	68.089	-20301.	3.5565
300.00	39.125	72.962	68.333	-20427.	3.5566
350.00	31.420	1782.0	73.617	-23984.	3.5793
400.00	29.560	3299.8	77.673	-27769.	3.6262
450.00	28.883	4757.4	81.108	-31741.	3.6843
500.00	28.792	6197.7	84.143	-35874.	3.7476
550.00	28.948	7640.7	86.893	-40151.	3.8131
600.00	29.148	9093.1	89.421	-44559.	3.8791
650.00	29.469	10558.	91.766	-49090.	3.9448
700.00	29.809	12040.	93.962	-53733.	4.0095
750.00	30.174	13540.	96.031	-58484.	4.0731
800.00	30.565	15058.	97.991	-63335.	4.1352
850.00	30.984	16597.	99.856	-68281.	4.1959
900.00	31.433	18157.	101.64	-73319.	4.2552
950.00	31.912	19741.	103.35	-78444.	4.3130
1000.0	32.423	21349.	105.00	-83653.	4.3695
1050.0	32.966	22983.	106.60	-88943.	4.4246
1100.0	33.542	24646.	108.14	-94312.	4.4784
1150.0	34.151	26338.	109.65	-99757.	4.5310
1200.0	34.793	28062.	111.11	-1.05276E+05	4.5824
1250.0	35.468	29818.	112.55	-1.10868E+05	4.6328
1300.0	36.177	31609.	113.95	-1.16530E+05	4.6821
1350.0	36.878	33436.	115.33	-1.22263E+05	4.7305
1400.0	37.621	35298.	116.69	-1.28063E+05	4.7780
1450.0	38.394	37198.	118.02	-1.33931E+05	4.8246
1500.0	39.152	39137.	119.33	-1.39865E+05	4.8704
1508.1	39.271	39456.	119.55	-1.40838E+05	4.8778
1508.2	38.960	42975.	121.88	-1.40838E+05	4.8778
1550.0	38.960	44606.	122.95	-1.45962E+05	4.9187
1586.1	38.960	46014.	123.84	-1.50422E+05	4.9535
1586.2	38.507	55682.	129.94	-1.50422E+05	4.9535
1600.0	38.507	56215.	130.27	-1.52224E+05	4.9695
1650.0	38.507	58141.	131.46	-1.58768E+05	5.0260
1700.0	38.507	60066.	132.61	-1.65370E+05	5.0811
1750.0	38.507	61992.	133.73	-1.72028E+05	5.1346
1800.0	38.507	63917.	134.81	-1.78742E+05	5.1868
1850.0	38.507	65842.	135.87	-1.85509E+05	5.2377
1900.0	38.507	67768.	136.89	-1.92328E+05	5.2873
1950.0	38.507	69693.	137.89	-1.99198E+05	5.3358
2000.0	38.507	71618.	138.87	-2.06117E+05	5.3831
2050.0	38.507	73544.	139.82	-2.13084E+05	5.4293
2100.0	38.507	75469.	140.75	-2.20098E+05	5.4745
2150.0	38.507	77395.	141.65	-2.27158E+05	5.5187
2200.0	38.507	79320.	142.54	-2.34263E+05	5.5620
2250.0	38.507	81245.	143.40	-2.41412E+05	5.6043
2300.0	38.507	83171.	144.25	-2.48603E+05	5.6458
2350.0	38.507	85096.	145.08	-2.55836E+05	5.6865
2400.0	38.507	87021.	145.89	-2.63110E+05	5.7263
2450.0	38.507	88947.	146.68	-2.70425E+05	5.7654
2500.0	38.507	90872.	147.46	-2.77778E+05	5.8037
2550.0	38.507	92798.	148.22	-2.85171E+05	5.8413
2600.0	38.507	94723.	148.97	-2.92600E+05	5.8783
2650.0	38.507	96648.	149.70	-3.00067E+05	5.9145
2700.0	38.507	98574.	150.42	-3.07571E+05	5.9502
2750.0	38.507	1.00499E+05	151.13	-3.15110E+05	5.9852
2800.0	38.507	1.02424E+05	151.82	-3.22683E+05	6.0196
2850.0	38.507	1.04350E+05	152.51	-3.30292E+05	6.0534
2900.0	38.507	1.06275E+05	153.18	-3.37934E+05	6.0867
2950.0	38.507	1.08201E+05	153.83	-3.45609E+05	6.1194
3000.0	38.507	1.10126E+05	154.48	-3.53317E+05	6.1516

Ge

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	23.347	0.00000E+00	31.090	-9269.5	1.6239
300.00	23.381	43.224	31.235	-9327.1	1.6240
350.00	24.082	1231.5	34.897	-10982.	1.6390
400.00	24.491	2446.7	38.141	-12810.	1.6728
450.00	24.749	3678.1	41.042	-14791.	1.7168
500.00	24.930	4920.3	43.659	-16909.	1.7665
550.00	25.076	6170.5	46.042	-19153.	1.8189
600.00	25.214	7427.8	48.230	-21510.	1.8726
650.00	25.359	8692.0	50.254	-23973.	1.9264
700.00	25.522	9964.0	52.139	-26533.	1.9799
750.00	25.709	11245.	53.906	-29185.	2.0326
800.00	25.927	12535.	55.572	-31922.	2.0843
850.00	26.177	13838.	57.151	-34741.	2.1349
900.00	26.464	15154.	58.655	-37636.	2.1843
950.00	26.831	16486.	60.096	-40605.	2.2326
1000.0	27.199	17837.	61.482	-43645.	2.2797
1050.0	27.566	19206.	62.818	-46753.	2.3258
1100.0	27.933	20594.	64.109	-49926.	2.3707
1150.0	28.300	21999.	65.358	-53163.	2.4147
1200.0	28.668	23424.	66.571	-56461.	2.4576
1211.4	28.751	23751.	66.842	-57222.	2.4673
1211.4	27.614	60696.	97.340	-57222.	2.4673
1250.0	27.614	61761.	98.206	-60996.	2.5488
1300.0	27.614	63142.	99.289	-65933.	2.6492
1350.0	27.614	64523.	100.33	-70924.	2.7441
1400.0	27.614	65904.	101.34	-75966.	2.8342
1450.0	27.614	67284.	102.30	-81057.	2.9199
1500.0	27.614	68665.	103.24	-86196.	3.0015
1550.0	27.614	70046.	104.15	-91380.	3.0794
1600.0	27.614	71426.	105.02	-96610.	3.1539
1650.0	27.614	72807.	105.87	-1.01882E+05	3.2252
1700.0	27.614	74188.	106.70	-1.07196E+05	3.2937
1750.0	27.614	75569.	107.50	-1.12551E+05	3.3594
1800.0	27.614	76949.	108.28	-1.17946E+05	3.4226
1850.0	27.614	78330.	109.03	-1.23379E+05	3.4835
1900.0	27.614	79711.	109.77	-1.28849E+05	3.5422
1950.0	27.614	81092.	110.49	-1.34355E+05	3.5989
2000.0	27.614	82472.	111.18	-1.39897E+05	3.6536
2050.0	27.614	83853.	111.87	-1.45473E+05	3.7066
2100.0	27.614	85234.	112.53	-1.51083E+05	3.7579
2150.0	27.614	86614.	113.18	-1.56726E+05	3.8076
2200.0	27.614	87995.	113.82	-1.62401E+05	3.8558
2250.0	27.614	89376.	114.44	-1.68108E+05	3.9026
2300.0	27.614	90757.	115.04	-1.73845E+05	3.9480
2350.0	27.614	92137.	115.64	-1.79612E+05	3.9922
2400.0	27.614	93518.	116.22	-1.85408E+05	4.0352
2450.0	27.614	94899.	116.79	-1.91233E+05	4.0770
2500.0	27.614	96279.	117.35	-1.97087E+05	4.1178
2550.0	27.614	97660.	117.89	-2.02968E+05	4.1575
2600.0	27.614	99041.	118.43	-2.08876E+05	4.1963
2650.0	27.614	1.00422E+05	118.96	-2.14811E+05	4.2341
2700.0	27.614	1.01802E+05	119.47	-2.20771E+05	4.2710
2750.0	27.614	1.03183E+05	119.98	-2.26758E+05	4.3070
2800.0	27.614	1.04564E+05	120.48	-2.32769E+05	4.3423
2850.0	27.614	1.05945E+05	120.96	-2.38805E+05	4.3767
2900.0	27.614	1.07325E+05	121.45	-2.44865E+05	4.4104
2950.0	27.614	1.08706E+05	121.92	-2.50950E+05	4.4434
3000.0	27.614	1.10087E+05	122.38	-2.57057E+05	4.4756

GeCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.979	69031.	245.90	-4284.4	0.75059
300.00	37.040	69099.	246.13	-4739.5	0.82520
350.00	38.357	70987.	251.95	-17194.	2.5660
400.00	39.228	72928.	257.13	-29924.	3.9075
450.00	39.823	74905.	261.79	-42898.	4.9794
500.00	40.231	76907.	266.00	-56095.	5.8600
550.00	40.504	78926.	269.85	-69493.	6.5997
600.00	40.673	80956.	273.38	-83075.	7.2321
650.00	40.756	82992.	276.64	-96826.	7.7809
700.00	40.767	85030.	279.66	-1.10735E+05	8.2629
750.00	40.668	87066.	282.47	-1.24789E+05	8.6909
800.00	40.572	89097.	285.10	-1.38979E+05	9.0742
850.00	40.479	91123.	287.55	-1.53296E+05	9.4202
900.00	40.389	93145.	289.86	-1.67732E+05	9.7347
950.00	40.301	95162.	292.04	-1.82280E+05	10.022
1000.0	40.218	97175.	294.11	-1.96935E+05	10.287
1050.0	40.138	99184.	296.07	-2.11690E+05	10.531
1100.0	40.061	1.01189E+05	297.94	-2.26540E+05	10.757
1150.0	39.988	1.03190E+05	299.71	-2.41482E+05	10.968
1200.0	39.918	1.05188E+05	301.42	-2.56510E+05	11.165
1250.0	39.853	1.07182E+05	303.04	-2.71622E+05	11.350
1300.0	39.791	1.09173E+05	304.61	-2.86814E+05	11.524
1350.0	39.732	1.11161E+05	306.11	-3.02082E+05	11.688
1400.0	39.678	1.13146E+05	307.55	-3.17423E+05	11.843
1450.0	39.627	1.15129E+05	308.94	-3.32836E+05	11.990
1500.0	39.581	1.17109E+05	310.28	-3.48316E+05	12.129
1550.0	39.538	1.19087E+05	311.58	-3.63863E+05	12.262
1600.0	39.499	1.21063E+05	312.84	-3.79474E+05	12.388
1650.0	39.463	1.23037E+05	314.05	-3.95146E+05	12.509
1700.0	39.432	1.25009E+05	315.23	-4.10878E+05	12.624
1750.0	39.404	1.26980E+05	316.37	-4.26668E+05	12.735
1800.0	39.381	1.28950E+05	317.48	-4.42515E+05	12.841
1850.0	39.361	1.30918E+05	318.56	-4.58416E+05	12.943
1900.0	39.345	1.32886E+05	319.61	-4.74370E+05	13.041
1950.0	39.333	1.34853E+05	320.63	-4.90376E+05	13.135
2000.0	39.325	1.36819E+05	321.63	-5.06433E+05	13.226
2050.0	39.321	1.38786E+05	322.60	-5.22538E+05	13.314
2100.0	39.321	1.40752E+05	323.54	-5.38692E+05	13.399
2150.0	39.324	1.42718E+05	324.47	-5.54893E+05	13.481
2200.0	39.332	1.44684E+05	325.37	-5.71139E+05	13.560
2250.0	39.343	1.46651E+05	326.26	-5.87430E+05	13.637
2300.0	39.359	1.48619E+05	327.12	-6.03764E+05	13.712
2350.0	39.378	1.50587E+05	327.97	-6.20142E+05	13.784
2400.0	39.401	1.52556E+05	328.80	-6.36561E+05	13.854
2450.0	39.429	1.54527E+05	329.61	-6.53021E+05	13.922
2500.0	39.461	1.56499E+05	330.41	-6.69522E+05	13.989
2550.0	39.462	1.58472E+05	331.19	-6.86062E+05	14.053
2600.0	39.470	1.60446E+05	331.96	-7.02641E+05	14.116
2650.0	39.483	1.62419E+05	332.71	-7.19257E+05	14.177
2700.0	39.502	1.64394E+05	333.45	-7.35911E+05	14.237
2750.0	39.526	1.66370E+05	334.17	-7.52602E+05	14.295
2800.0	39.555	1.68347E+05	334.88	-7.69328E+05	14.352
2850.0	39.588	1.70325E+05	335.58	-7.86090E+05	14.407
2900.0	39.624	1.72306E+05	336.27	-8.02886E+05	14.461
2950.0	39.665	1.74288E+05	336.95	-8.19717E+05	14.514
3000.0	39.708	1.76272E+05	337.62	-8.36581E+05	14.566

GeCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.738	-1.71000E+05	295.82	-2.59200E+05	45.410
300.00	53.792	-1.70901E+05	296.16	-2.59748E+05	45.225
350.00	54.933	-1.68180E+05	304.54	-2.74770E+05	41.006
400.00	55.674	-1.65414E+05	311.93	-2.90185E+05	37.893
450.00	56.184	-1.62617E+05	318.52	-3.05950E+05	35.513
500.00	56.549	-1.59798E+05	324.46	-3.22026E+05	33.641
550.00	56.820	-1.56963E+05	329.86	-3.38386E+05	32.136
600.00	57.027	-1.54117E+05	334.81	-3.55005E+05	30.905
650.00	57.189	-1.51261E+05	339.38	-3.71861E+05	29.882
700.00	57.317	-1.48399E+05	343.63	-3.88938E+05	29.022
750.00	57.422	-1.45530E+05	347.59	-4.06219E+05	28.291
800.00	57.508	-1.42657E+05	351.29	-4.23692E+05	27.664
850.00	57.580	-1.39779E+05	354.78	-4.41345E+05	27.121
900.00	57.640	-1.36899E+05	358.08	-4.59167E+05	26.649
950.00	57.692	-1.34016E+05	361.19	-4.77150E+05	26.235
1000.0	57.736	-1.31130E+05	364.15	-4.95284E+05	25.870
1050.0	57.775	-1.28242E+05	366.97	-5.13563E+05	25.548
1100.0	57.809	-1.25352E+05	369.66	-5.31979E+05	25.261
1150.0	57.838	-1.22461E+05	372.23	-5.50527E+05	25.005
1200.0	57.865	-1.19569E+05	374.69	-5.69201E+05	24.776
1250.0	57.888	-1.16675E+05	377.06	-5.87995E+05	24.570
1300.0	57.909	-1.13780E+05	379.33	-6.06905E+05	24.385
1350.0	57.928	-1.10884E+05	381.51	-6.25926E+05	24.218
1400.0	57.946	-1.07987E+05	383.62	-6.45055E+05	24.067
1450.0	57.961	-1.05089E+05	385.65	-6.64287E+05	23.930
1500.0	57.976	-1.02191E+05	387.62	-6.83619E+05	23.805
1550.0	57.989	-99292.	389.52	-7.03047E+05	23.692
1600.0	58.001	-96392.	391.36	-7.22570E+05	23.589
1650.0	58.012	-93492.	393.15	-7.42183E+05	23.495
1700.0	58.023	-90591.	394.88	-7.61883E+05	23.409
1750.0	58.032	-87690.	396.56	-7.81670E+05	23.331
1800.0	58.041	-84788.	398.19	-8.01539E+05	23.259
1850.0	58.049	-81885.	399.79	-8.21488E+05	23.194
1900.0	58.057	-78983.	401.33	-8.41516E+05	23.134
1950.0	58.065	-76080.	402.84	-8.61621E+05	23.080
2000.0	58.072	-73176.	404.31	-8.81800E+05	23.030
2050.0	58.078	-70273.	405.75	-9.02052E+05	22.984
2100.0	58.084	-67369.	407.15	-9.22374E+05	22.942
2150.0	58.090	-64464.	408.51	-9.42766E+05	22.904
2200.0	58.095	-61560.	409.85	-9.63225E+05	22.869
2250.0	58.101	-58655.	411.15	-9.83750E+05	22.838
2300.0	58.105	-55749.	412.43	-1.00434E+06	22.809
2350.0	58.110	-52844.	413.68	-1.02499E+06	22.782
2400.0	58.115	-49938.	414.90	-1.04571E+06	22.759
2450.0	58.119	-47033.	416.10	-1.06648E+06	22.737
2500.0	58.123	-44127.	417.28	-1.08732E+06	22.718
2550.0	58.127	-41220.	418.43	-1.10821E+06	22.700
2600.0	58.130	-38314.	419.56	-1.12916E+06	22.685
2650.0	58.134	-35407.	420.66	-1.15016E+06	22.671
2700.0	58.137	-32501.	421.75	-1.17123E+06	22.658
2750.0	58.140	-29594.	422.82	-1.19234E+06	22.647
2800.0	58.143	-26687.	423.86	-1.21351E+06	22.638
2850.0	58.146	-23779.	424.89	-1.23473E+06	22.629
2900.0	58.149	-20872.	425.90	-1.25600E+06	22.622
2950.0	58.151	-17964.	426.90	-1.27732E+06	22.616
3000.0	58.154	-15057.	427.88	-1.29869E+06	22.612

GeBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln1
298.15	55.742	-60963.	319.16	-1.56122E+05	27.351
300.00	55.772	-60860.	319.51	-1.56713E+05	27.285
350.00	56.408	-58054.	328.16	-1.72910E+05	25.805
400.00	56.821	-55223.	335.72	-1.89511E+05	24.747
450.00	57.104	-52374.	342.43	-2.06468E+05	23.966
500.00	57.307	-49514.	348.46	-2.23742E+05	23.374
550.00	57.458	-46644.	353.93	-2.41304E+05	22.917
600.00	57.572	-43768.	358.93	-2.59127E+05	22.558
650.00	57.662	-40888.	363.54	-2.77191E+05	22.275
700.00	57.733	-38003.	367.82	-2.95476E+05	22.048
750.00	57.790	-35114.	371.80	-3.13968E+05	21.866
800.00	57.838	-32224.	375.54	-3.32652E+05	21.719
850.00	57.877	-29331.	379.04	-3.51517E+05	21.601
900.00	57.910	-26436.	382.35	-3.70553E+05	21.506
950.00	57.938	-23540.	385.48	-3.89750E+05	21.429
1000.0	57.962	-20642.	388.46	-4.09099E+05	21.369
1050.0	57.983	-17744.	391.28	-4.28593E+05	21.321
1100.0	58.001	-14844.	393.98	-4.48225E+05	21.284
1150.0	58.017	-11944.	396.56	-4.67989E+05	21.256
1200.0	58.031	-9042.5	399.03	-4.87879E+05	21.236
1250.0	58.044	-6140.6	401.40	-5.07891E+05	21.223
1300.0	58.055	-3238.1	403.68	-5.28018E+05	21.215
1350.0	58.065	-335.15	405.87	-5.48257E+05	21.213
1400.0	58.074	2568.3	407.98	-5.68603E+05	21.214
1450.0	58.082	5472.2	410.02	-5.89054E+05	21.219
1500.0	58.089	8376.5	411.99	-6.09604E+05	21.228
1550.0	58.096	11281.	413.89	-6.30251E+05	21.239
1600.0	58.102	14186.	415.74	-6.50992E+05	21.252
1650.0	58.108	17091.	417.52	-6.71824E+05	21.268
1700.0	58.113	19997.	419.26	-6.92744E+05	21.285
1750.0	58.118	22903.	420.94	-7.13749E+05	21.304
1800.0	58.122	25809.	422.58	-7.34837E+05	21.324
1850.0	58.127	28715.	424.17	-7.56006E+05	21.345
1900.0	58.130	31621.	425.72	-7.77254E+05	21.368
1950.0	58.134	34528.	427.23	-7.98578E+05	21.391
2000.0	58.137	37435.	428.71	-8.19977E+05	21.415
2050.0	58.140	40342.	430.14	-8.41448E+05	21.440
2100.0	58.143	43249.	431.54	-8.62990E+05	21.465
2150.0	58.146	46156.	432.91	-8.84602E+05	21.491
2200.0	58.149	49063.	434.25	-9.06281E+05	21.517
2250.0	58.151	51971.	435.55	-9.28026E+05	21.544
2300.0	58.154	54878.	436.83	-9.49836E+05	21.571
2350.0	58.156	57786.	438.08	-9.71709E+05	21.598
2400.0	58.158	60694.	439.31	-9.93644E+05	21.626
2450.0	58.160	63602.	440.51	-1.01564E+06	21.653
2500.0	58.162	66510.	441.68	-1.03769E+06	21.681
2550.0	58.163	69418.	442.83	-1.05981E+06	21.709
2600.0	58.165	72326.	443.96	-1.08198E+06	21.737
2650.0	58.167	75235.	445.07	-1.10420E+06	21.765
2700.0	58.168	78143.	446.16	-1.12648E+06	21.793
2750.0	58.170	81051.	447.23	-1.14882E+06	21.821
2800.0	58.171	83960.	448.27	-1.17121E+06	21.849
2850.0	58.172	86869.	449.30	-1.19365E+06	21.877
2900.0	58.174	89777.	450.31	-1.21614E+06	21.904
2950.0	58.175	92686.	451.31	-1.23868E+06	21.932
3000.0	58.176	95595.	452.29	-1.26127E+06	21.960

GeBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	101.64	-2.91000E+05	396.19	-4.09123E+05	71.675
300.00	101.72	-2.90812E+05	396.82	-4.09857E+05	71.361
350.00	103.38	-2.85681E+05	412.63	-4.30102E+05	64.188
400.00	104.46	-2.80484E+05	426.51	-4.51088E+05	58.905
450.00	105.20	-2.75241E+05	438.86	-4.72727E+05	54.871
500.00	105.73	-2.69967E+05	449.97	-4.94953E+05	51.706
550.00	106.12	-2.64670E+05	460.07	-5.17708E+05	49.167
600.00	106.42	-2.59356E+05	469.32	-5.40946E+05	47.092
650.00	106.66	-2.54029E+05	477.84	-5.64627E+05	45.373
700.00	106.84	-2.48691E+05	485.76	-5.88720E+05	43.930
750.00	107.00	-2.43345E+05	493.13	-6.13194E+05	42.706
800.00	107.12	-2.37992E+05	500.04	-6.38025E+05	41.658
850.00	107.22	-2.32633E+05	506.54	-6.63191E+05	40.754
900.00	107.31	-2.27270E+05	512.67	-6.88673E+05	39.969
950.00	107.38	-2.21903E+05	518.47	-7.14453E+05	39.282
1000.0	107.45	-2.16532E+05	523.98	-7.40515E+05	38.680
1050.0	107.50	-2.11158E+05	529.23	-7.66847E+05	38.148
1100.0	107.55	-2.05782E+05	534.23	-7.93434E+05	37.676
1150.0	107.59	-2.00403E+05	539.01	-8.20266E+05	37.257
1200.0	107.63	-1.95023E+05	543.59	-8.47332E+05	36.882
1250.0	107.66	-1.89640E+05	547.99	-8.74622E+05	36.548
1300.0	107.69	-1.84257E+05	552.21	-9.02127E+05	36.247
1350.0	107.72	-1.78871E+05	556.27	-9.29840E+05	35.977
1400.0	107.74	-1.73485E+05	560.19	-9.57752E+05	35.733
1450.0	107.76	-1.68097E+05	563.97	-9.85857E+05	35.514
1500.0	107.78	-1.62708E+05	567.63	-1.01415E+06	35.315
1550.0	107.80	-1.57319E+05	571.16	-1.04262E+06	35.135
1600.0	107.82	-1.51928E+05	574.58	-1.07126E+06	34.972
1650.0	107.83	-1.46537E+05	577.90	-1.10007E+06	34.825
1700.0	107.85	-1.41145E+05	581.12	-1.12905E+06	34.691
1750.0	107.86	-1.35752E+05	584.25	-1.15818E+06	34.569
1800.0	107.87	-1.30358E+05	587.29	-1.18747E+06	34.459
1850.0	107.88	-1.24965E+05	590.24	-1.21691E+06	34.359
1900.0	107.90	-1.19570E+05	593.12	-1.24650E+06	34.268
1950.0	107.91	-1.14175E+05	595.92	-1.27622E+06	34.185
2000.0	107.91	-1.08780E+05	598.65	-1.30609E+06	34.111
2050.0	107.92	-1.03384E+05	601.32	-1.33609E+06	34.043
2100.0	107.93	-97987.	603.92	-1.36622E+06	33.982
2150.0	107.94	-92590.	606.46	-1.39648E+06	33.927
2200.0	107.95	-87193.	608.94	-1.42686E+06	33.877
2250.0	107.95	-81796.	611.37	-1.45737E+06	33.833
2300.0	107.96	-76398.	613.74	-1.48800E+06	33.793
2350.0	107.96	-71000.	616.06	-1.51874E+06	33.757
2400.0	107.97	-65602.	618.33	-1.54960E+06	33.725
2450.0	107.98	-60203.	620.56	-1.58058E+06	33.697
2500.0	107.98	-54804.	622.74	-1.61166E+06	33.673
2550.0	107.99	-49405.	624.88	-1.64285E+06	33.652
2600.0	107.99	-44005.	626.98	-1.67415E+06	33.633
2650.0	108.00	-38606.	629.03	-1.70555E+06	33.618
2700.0	108.00	-33206.	631.05	-1.73705E+06	33.604
2750.0	108.00	-27806.	633.03	-1.76865E+06	33.594
2800.0	108.01	-22406.	634.98	-1.80035E+06	33.585
2850.0	108.01	-17005.	636.89	-1.83215E+06	33.579
2900.0	108.01	-11604.	638.77	-1.86404E+06	33.574
2950.0	108.02	-6203.6	640.62	-1.89603E+06	33.571
3000.0	108.02	-802.66	642.43	-1.92810E+06	33.570

H2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	28.837	0.00000E+00	130.68	-38962.	6.8259
300.00	28.847	53.358	130.86	-39204.	6.8259
350.00	29.051	1501.4	135.32	-45861.	6.8443
400.00	29.159	2956.9	139.21	-52727.	6.8852
450.00	29.222	4416.5	142.65	-59775.	6.9383
500.00	29.265	5878.7	145.73	-66986.	6.9978
550.00	29.303	7342.9	148.52	-74343.	7.0603
600.00	29.344	8809.1	151.07	-81834.	7.1241
650.00	29.395	10278.	153.42	-89447.	7.1878
700.00	29.458	11749.	155.60	-97173.	7.2510
750.00	29.536	13224.	157.64	-1.05005E+05	7.3130
800.00	29.632	14703.	159.55	-1.12935E+05	7.3737
850.00	29.746	16187.	161.35	-1.20957E+05	7.4329
900.00	29.879	17678.	163.05	-1.29068E+05	7.4907
950.00	30.031	19175.	164.67	-1.37261E+05	7.5469
1000.0	30.204	20681.	166.21	-1.45533E+05	7.6017
1050.0	30.357	22195.	167.69	-1.53881E+05	7.6550
1100.0	30.532	23717.	169.11	-1.62302E+05	7.7069
1150.0	30.724	25248.	170.47	-1.70791E+05	7.7574
1200.0	30.928	26790.	171.78	-1.79348E+05	7.8066
1250.0	31.142	28341.	173.05	-1.87969E+05	7.8546
1300.0	31.362	29904.	174.27	-1.96652E+05	7.9014
1350.0	31.585	31478.	175.46	-2.05395E+05	7.9470
1400.0	31.812	33063.	176.61	-2.14197E+05	7.9916
1450.0	32.038	34659.	177.73	-2.23056E+05	8.0351
1500.0	32.264	36266.	178.82	-2.31970E+05	8.0777
1550.0	32.488	37885.	179.89	-2.40938E+05	8.1194
1600.0	32.709	39515.	180.92	-2.49958E+05	8.1601
1650.0	32.927	41156.	181.93	-2.59030E+05	8.2000
1700.0	33.141	42808.	182.92	-2.68151E+05	8.2391
1750.0	33.349	44470.	183.88	-2.77321E+05	8.2774
1800.0	33.553	46143.	184.82	-2.86539E+05	8.3149
1850.0	33.750	47825.	185.75	-2.95803E+05	8.3518
1900.0	33.941	49518.	186.65	-3.05113E+05	8.3879
1950.0	34.126	51219.	187.53	-3.14468E+05	8.4234
2000.0	34.304	52930.	188.40	-3.23866E+05	8.4583
2050.0	34.476	54650.	189.25	-3.33307E+05	8.4926
2100.0	34.639	56377.	190.08	-3.42790E+05	8.5262
2150.0	34.806	58114.	190.90	-3.52315E+05	8.5593
2200.0	34.968	59858.	191.70	-3.61880E+05	8.5919
2250.0	35.125	61610.	192.49	-3.71484E+05	8.6239
2300.0	35.277	63370.	193.26	-3.81128E+05	8.6555
2350.0	35.425	65138.	194.02	-3.90810E+05	8.6865
2400.0	35.569	66913.	194.77	-4.00530E+05	8.7171
2450.0	35.710	68695.	195.50	-4.10287E+05	8.7472
2500.0	35.847	70484.	196.23	-4.20080E+05	8.7769
2550.0	35.981	72279.	196.94	-4.29909E+05	8.8061
2600.0	36.112	74082.	197.64	-4.39774E+05	8.8349
2650.0	36.241	75891.	198.33	-4.49673E+05	8.8634
2700.0	36.367	77706.	199.00	-4.59606E+05	8.8914
2750.0	36.491	79527.	199.67	-4.69573E+05	8.9190
2800.0	36.613	81355.	200.33	-4.79573E+05	8.9463
2850.0	36.732	83189.	200.98	-4.89606E+05	8.9732
2900.0	36.850	85028.	201.62	-4.99671E+05	8.9998
2950.0	36.965	86873.	202.25	-5.09768E+05	9.0261
3000.0	37.079	88725.	202.87	-5.19896E+05	9.0520

H<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln1
298.15	20.786	2.17999E+05	114.72	1.83796E+05	-32.199
300.00	20.786	2.18037E+05	114.85	1.83583E+05	-31.964
350.00	20.786	2.19077E+05	118.05	1.77759E+05	-26.528
400.00	20.786	2.20116E+05	120.83	1.71786E+05	-22.432
450.00	20.786	2.21155E+05	123.27	1.65682E+05	-19.231
500.00	20.786	2.22195E+05	125.46	1.59462E+05	-16.658
550.00	20.786	2.23234E+05	127.45	1.53139E+05	-14.544
600.00	20.786	2.24273E+05	129.25	1.46721E+05	-12.773
650.00	20.786	2.25313E+05	130.92	1.40216E+05	-11.268
700.00	20.786	2.26352E+05	132.46	1.33631E+05	-9.9714
750.00	20.786	2.27391E+05	133.89	1.26972E+05	-8.8429
800.00	20.786	2.28431E+05	135.23	1.20243E+05	-7.8509
850.00	20.786	2.29470E+05	136.49	1.13450E+05	-6.9716
900.00	20.786	2.30509E+05	137.68	1.06595E+05	-6.1865
950.00	20.786	2.31548E+05	138.81	99682.	-5.4808
1000.0	20.786	2.32588E+05	139.87	92715.	-4.8428
1050.0	20.786	2.33627E+05	140.89	85696.	-4.2630
1100.0	20.786	2.34666E+05	141.85	78627.	-3.7336
1150.0	20.786	2.35706E+05	142.78	71511.	-3.2481
1200.0	20.786	2.36745E+05	143.66	64350.	-2.8010
1250.0	20.786	2.37784E+05	144.51	57146.	-2.3879
1300.0	20.786	2.38824E+05	145.33	49900.	-2.0049
1350.0	20.786	2.39863E+05	146.11	42614.	-1.6488
1400.0	20.786	2.40902E+05	146.87	35289.	-1.3166
1450.0	20.786	2.41941E+05	147.60	27927.	-1.0060
1500.0	20.786	2.42981E+05	148.30	20530.	-0.71490
1550.0	20.786	2.44020E+05	148.98	13098.	-0.44138
1600.0	20.786	2.45059E+05	149.64	5632.1	-0.18387
1650.0	20.786	2.46099E+05	150.28	-1866.0	5.9E-02
1700.0	20.786	2.47138E+05	150.90	-9395.7	0.28869
1750.0	20.786	2.48177E+05	151.50	-16956.	0.50609
1800.0	20.786	2.49217E+05	152.09	-24546.	0.71229
1850.0	20.786	2.50256E+05	152.66	-32165.	0.90815
1900.0	20.786	2.51295E+05	153.21	-39812.	1.0945
1950.0	20.786	2.52335E+05	153.75	-47486.	1.2720
2000.0	20.786	2.53374E+05	154.28	-55187.	1.4413
2050.0	20.786	2.54413E+05	154.79	-62914.	1.6030
2100.0	20.786	2.55452E+05	155.29	-70666.	1.7577
2150.0	20.786	2.56492E+05	155.78	-78443.	1.9057
2200.0	20.786	2.57531E+05	156.26	-86244.	2.0476
2250.0	20.786	2.58570E+05	156.73	-94069.	2.1838
2300.0	20.786	2.59610E+05	157.19	-1.01917E+05	2.3145
2350.0	20.786	2.60649E+05	157.63	-1.09787E+05	2.4402
2400.0	20.786	2.61688E+05	158.07	-1.17680E+05	2.5612
2450.0	20.786	2.62728E+05	158.50	-1.25594E+05	2.6776
2500.0	20.786	2.63767E+05	158.92	-1.33530E+05	2.7899
2550.0	20.786	2.64806E+05	159.33	-1.41486E+05	2.8981
2600.0	20.786	2.65846E+05	159.73	-1.49463E+05	3.0027
2650.0	20.786	2.66885E+05	160.13	-1.57459E+05	3.1036
2700.0	20.786	2.67924E+05	160.52	-1.65475E+05	3.2012
2750.0	20.786	2.68963E+05	160.90	-1.73511E+05	3.2957
2800.0	20.786	2.70003E+05	161.27	-1.81565E+05	3.3871
2850.0	20.786	2.71042E+05	161.64	-1.89638E+05	3.4756
2900.0	20.786	2.72081E+05	162.00	-1.97729E+05	3.5614
2950.0	20.786	2.73121E+05	162.36	-2.05838E+05	3.6446
3000.0	20.786	2.74160E+05	162.71	-2.13965E+05	3.7254

HCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.141	-92310.	186.90	-1.48035E+05	25.934
300.00	29.139	-92256.	187.08	-1.48380E+05	25.835
350.00	29.118	-90800.	191.57	-1.57850E+05	23.557
400.00	29.147	-89343.	195.46	-1.67528E+05	21.876
450.00	29.214	-87885.	198.90	-1.77388E+05	20.590
500.00	29.315	-86421.	201.98	-1.87411E+05	19.578
550.00	29.446	-84953.	204.78	-1.97581E+05	18.764
600.00	29.605	-83476.	207.35	-2.07886E+05	18.098
650.00	29.790	-81992.	209.73	-2.18313E+05	17.543
700.00	30.001	-80497.	211.94	-2.28855E+05	17.077
750.00	30.237	-78991.	214.02	-2.39505E+05	16.680
800.00	30.498	-77473.	215.98	-2.50255E+05	16.340
850.00	30.812	-75940.	217.84	-2.61101E+05	16.045
900.00	31.114	-74392.	219.61	-2.72037E+05	15.788
950.00	31.406	-72829.	221.30	-2.83060E+05	15.563
1000.0	31.688	-71251.	222.91	-2.94166E+05	15.365
1050.0	31.961	-69660.	224.47	-3.05351E+05	15.190
1100.0	32.226	-68055.	225.96	-3.16612E+05	15.034
1150.0	32.482	-66438.	227.40	-3.27946E+05	14.895
1200.0	32.731	-64807.	228.79	-3.39351E+05	14.771
1250.0	32.971	-63165.	230.13	-3.50824E+05	14.660
1300.0	33.204	-61510.	231.42	-3.62363E+05	14.560
1350.0	33.430	-59844.	232.68	-3.73965E+05	14.469
1400.0	33.648	-58167.	233.90	-3.85630E+05	14.388
1450.0	33.859	-56480.	235.09	-3.97355E+05	14.314
1500.0	34.063	-54782.	236.24	-4.09138E+05	14.247
1550.0	34.260	-53073.	237.36	-4.20978E+05	14.187
1600.0	34.449	-51356.	238.45	-4.32874E+05	14.132
1650.0	34.632	-49629.	239.51	-4.44823E+05	14.082
1700.0	34.808	-47893.	240.55	-4.56824E+05	14.036
1750.0	34.977	-46148.	241.56	-4.68877E+05	13.995
1800.0	35.139	-44395.	242.55	-4.80980E+05	13.957
1850.0	35.294	-42634.	243.51	-4.93131E+05	13.923
1900.0	35.443	-40866.	244.46	-5.05331E+05	13.892
1950.0	35.584	-39090.	245.38	-5.17577E+05	13.864
2000.0	35.719	-37307.	246.28	-5.29868E+05	13.838
2050.0	35.847	-35518.	247.16	-5.42204E+05	13.815
2100.0	35.968	-33723.	248.03	-5.54584E+05	13.794
2150.0	36.083	-31922.	248.88	-5.67007E+05	13.775
2200.0	36.191	-30115.	249.71	-5.79472E+05	13.758
2250.0	36.292	-28303.	250.52	-5.91977E+05	13.743
2300.0	36.387	-26486.	251.32	-6.04524E+05	13.729
2350.0	36.475	-24664.	252.10	-6.17109E+05	13.716
2400.0	36.557	-22838.	252.87	-6.29734E+05	13.705
2450.0	36.640	-21008.	253.63	-6.42396E+05	13.696
2500.0	36.722	-19174.	254.37	-6.55096E+05	13.687
2550.0	36.803	-17336.	255.10	-6.67833E+05	13.680
2600.0	36.883	-15494.	255.81	-6.80606E+05	13.673
2650.0	36.962	-13648.	256.52	-6.93414E+05	13.668
2700.0	37.039	-11798.	257.21	-7.06257E+05	13.663
2750.0	37.116	-9943.9	257.89	-7.19135E+05	13.659
2800.0	37.192	-8086.2	258.56	-7.32046E+05	13.656
2850.0	37.267	-6224.7	259.22	-7.44990E+05	13.654
2900.0	37.340	-4359.6	259.86	-7.57967E+05	13.652
2950.0	37.413	-2490.7	260.50	-7.70976E+05	13.651
3000.0	37.485	-618.28	261.13	-7.84017E+05	13.651

HBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.148	-36290.	198.70	-95532.	16.736
300.00	29.145	-36236.	198.88	-95899.	16.697
350.00	29.114	-34780.	203.37	-1.05958E+05	15.813
400.00	29.178	-33323.	207.26	-1.16226E+05	15.177
450.00	29.304	-31861.	210.70	-1.26677E+05	14.704
500.00	29.474	-30392.	213.80	-1.37290E+05	14.342
550.00	29.679	-28913.	216.61	-1.48052E+05	14.060
600.00	29.911	-27424.	219.21	-1.58948E+05	13.837
650.00	30.168	-25922.	221.61	-1.69969E+05	13.659
700.00	30.446	-24407.	223.86	-1.81106E+05	13.514
750.00	30.745	-22877.	225.97	-1.92353E+05	13.396
800.00	31.063	-21332.	227.96	-2.03701E+05	13.300
850.00	31.423	-19770.	229.86	-2.15147E+05	13.221
900.00	31.761	-18190.	231.66	-2.26685E+05	13.156
950.00	32.078	-16594.	233.39	-2.38312E+05	13.103
1000.0	32.379	-14982.	235.04	-2.50023E+05	13.060
1050.0	32.664	-13356.	236.63	-2.61815E+05	13.024
1100.0	32.936	-11716.	238.15	-2.73685E+05	12.996
1150.0	33.196	-10063.	239.62	-2.85629E+05	12.973
1200.0	33.444	-8396.7	241.04	-2.97646E+05	12.956
1250.0	33.682	-6718.5	242.41	-3.09733E+05	12.943
1300.0	33.911	-5028.6	243.74	-3.21887E+05	12.933
1350.0	34.130	-3327.6	245.02	-3.34106E+05	12.927
1400.0	34.340	-1615.8	246.27	-3.46388E+05	12.924
1450.0	34.541	106.26	247.47	-3.58732E+05	12.923
1500.0	34.735	1838.2	248.65	-3.71135E+05	12.924
1550.0	34.920	3579.6	249.79	-3.83596E+05	12.927
1600.0	35.098	5330.1	250.90	-3.96113E+05	12.931
1650.0	35.269	7089.3	251.98	-4.08686E+05	12.938
1700.0	35.431	8856.8	253.04	-4.21311E+05	12.945
1750.0	35.587	10632.	254.07	-4.33989E+05	12.954
1800.0	35.736	12415.	255.07	-4.46718E+05	12.963
1850.0	35.877	14206.	256.06	-4.59496E+05	12.974
1900.0	36.012	16003.	257.01	-4.72323E+05	12.985
1950.0	36.140	17807.	257.95	-4.85197E+05	12.997
2000.0	36.261	19617.	258.87	-4.98118E+05	13.009
2050.0	36.375	21433.	259.76	-5.11084E+05	13.022
2100.0	36.483	23254.	260.64	-5.24094E+05	13.036
2150.0	36.584	25081.	261.50	-5.37148E+05	13.050
2200.0	36.678	26913.	262.34	-5.50244E+05	13.064
2250.0	36.766	28749.	263.17	-5.63382E+05	13.079
2300.0	36.849	30589.	263.98	-5.76560E+05	13.094
2350.0	36.925	32434.	264.77	-5.89779E+05	13.109
2400.0	37.001	34282.	265.55	-6.03037E+05	13.124
2450.0	37.078	36134.	266.31	-6.16334E+05	13.140
2500.0	37.155	37989.	267.06	-6.29668E+05	13.156
2550.0	37.232	39849.	267.80	-6.43040E+05	13.172
2600.0	37.310	41713.	268.52	-6.56448E+05	13.188
2650.0	37.387	43580.	269.23	-6.69892E+05	13.204
2700.0	37.464	45451.	269.93	-6.83372E+05	13.220
2750.0	37.541	47326.	270.62	-6.96885E+05	13.237
2800.0	37.617	49205.	271.30	-7.10434E+05	13.253
2850.0	37.693	51088.	271.97	-7.24015E+05	13.269
2900.0	37.768	52975.	272.62	-7.37630E+05	13.286
2950.0	37.843	54865.	273.27	-7.51277E+05	13.302
3000.0	37.916	56759.	273.91	-7.64957E+05	13.319

HBO2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	44.277	-5.60218E+05	240.81	-6.32016E+05	110.72
300.00	44.400	-5.60136E+05	241.09	-6.32462E+05	110.12
350.00	47.431	-5.57838E+05	248.16	-6.44695E+05	96.213
400.00	50.036	-5.55400E+05	254.67	-6.57268E+05	85.828
450.00	52.348	-5.52839E+05	260.70	-6.70155E+05	77.788
500.00	54.436	-5.50169E+05	266.33	-6.83332E+05	71.385
550.00	56.338	-5.47399E+05	271.60	-6.96781E+05	66.173
600.00	58.080	-5.44538E+05	276.58	-7.10487E+05	61.852
650.00	59.675	-5.41593E+05	281.30	-7.24435E+05	58.215
700.00	61.133	-5.38572E+05	285.77	-7.38613E+05	55.115
750.00	62.462	-5.35482E+05	290.04	-7.53009E+05	52.443
800.00	63.662	-5.32328E+05	294.11	-7.67613E+05	50.119
850.00	64.822	-5.29116E+05	298.00	-7.82417E+05	48.080
900.00	65.864	-5.25848E+05	301.74	-7.97411E+05	46.279
950.00	66.811	-5.22531E+05	305.32	-8.12588E+05	44.678
1000.0	67.677	-5.19168E+05	308.77	-8.27941E+05	43.246
1050.0	68.475	-5.15764E+05	312.09	-8.43463E+05	41.959
1100.0	69.216	-5.12322E+05	315.30	-8.59148E+05	40.797
1150.0	69.906	-5.08844E+05	318.39	-8.74991E+05	39.742
1200.0	70.552	-5.05332E+05	321.38	-8.90985E+05	38.783
1250.0	71.159	-5.01789E+05	324.27	-9.07127E+05	37.906
1300.0	71.729	-4.98217E+05	327.07	-9.23411E+05	37.102
1350.0	72.268	-4.94617E+05	329.79	-9.39833E+05	36.363
1400.0	72.777	-4.90990E+05	332.43	-9.56388E+05	35.682
1450.0	73.258	-4.87339E+05	334.99	-9.73074E+05	35.053
1500.0	73.714	-4.83665E+05	337.48	-9.89886E+05	34.470
1550.0	74.145	-4.79968E+05	339.90	-1.00682E+06	33.929
1600.0	74.554	-4.76251E+05	342.27	-1.02388E+06	33.425
1650.0	74.942	-4.72513E+05	344.57	-1.04105E+06	32.956
1700.0	75.308	-4.68757E+05	346.81	-1.05833E+06	32.518
1750.0	75.655	-4.64983E+05	349.00	-1.07573E+06	32.108
1800.0	75.982	-4.61192E+05	351.13	-1.09323E+06	31.724
1850.0	76.291	-4.57385E+05	353.22	-1.11084E+06	31.364
1900.0	76.583	-4.53563E+05	355.26	-1.12855E+06	31.025
1950.0	76.856	-4.49727E+05	357.25	-1.14636E+06	30.707
2000.0	77.112	-4.45878E+05	359.20	-1.16428E+06	30.407
2050.0	77.352	-4.42016E+05	361.11	-1.18228E+06	30.124
2100.0	77.575	-4.38143E+05	362.97	-1.20039E+06	29.857
2150.0	77.782	-4.34259E+05	364.80	-1.21858E+06	29.605
2200.0	77.973	-4.30365E+05	366.59	-1.23686E+06	29.366
2250.0	78.149	-4.26462E+05	368.35	-1.25524E+06	29.140
2300.0	78.309	-4.22550E+05	370.06	-1.27370E+06	28.926
2350.0	78.486	-4.18630E+05	371.75	-1.29224E+06	28.723
2400.0	78.653	-4.14702E+05	373.40	-1.31087E+06	28.530
2450.0	78.811	-4.10765E+05	375.03	-1.32958E+06	28.346
2500.0	78.961	-4.06821E+05	376.62	-1.34838E+06	28.172
2550.0	79.102	-4.02869E+05	378.19	-1.36725E+06	28.006
2600.0	79.237	-3.98911E+05	379.72	-1.38619E+06	27.848
2650.0	79.365	-3.94946E+05	381.23	-1.40522E+06	27.698
2700.0	79.486	-3.90974E+05	382.72	-1.42432E+06	27.554
2750.0	79.602	-3.86997E+05	384.18	-1.44349E+06	27.418
2800.0	79.712	-3.83014E+05	385.61	-1.46273E+06	27.287
2850.0	79.817	-3.79026E+05	387.03	-1.48205E+06	27.162
2900.0	79.917	-3.75033E+05	388.42	-1.50144E+06	27.043
2950.0	80.013	-3.71034E+05	389.78	-1.52089E+06	26.929
3000.0	80.105	-3.67031E+05	391.13	-1.54041E+06	26.820

H3BO3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	70.022	-1.00436E+06	268.23	-1.08433E+06	189.97
300.00	70.365	-1.00423E+06	268.66	-1.08483E+06	188.88
350.00	78.676	-1.00050E+06	280.15	-1.09855E+06	163.95
400.00	85.591	-9.96386E+05	291.12	-1.11283E+06	145.32
450.00	91.520	-9.91954E+05	301.55	-1.12765E+06	130.89
500.00	96.678	-9.87246E+05	311.47	-1.14298E+06	119.40
550.00	101.19	-9.82297E+05	320.90	-1.15879E+06	110.05
600.00	105.12	-9.77137E+05	329.88	-1.17506E+06	102.30
650.00	108.58	-9.71793E+05	338.43	-1.19177E+06	95.770
700.00	111.58	-9.66287E+05	346.59	-1.20890E+06	90.207
750.00	114.23	-9.60641E+05	354.38	-1.22643E+06	85.414
800.00	116.61	-9.54868E+05	361.83	-1.24433E+06	81.245
850.00	118.78	-9.48983E+05	368.97	-1.26260E+06	77.588
900.00	120.76	-9.42993E+05	375.81	-1.28122E+06	74.358
950.00	122.60	-9.36909E+05	382.39	-1.30018E+06	71.487
1000.0	124.31	-9.30735E+05	388.72	-1.31946E+06	68.920
1050.0	125.91	-9.24479E+05	394.83	-1.33905E+06	66.612
1100.0	127.41	-9.18146E+05	400.72	-1.35894E+06	64.529
1150.0	128.83	-9.11739E+05	406.42	-1.37912E+06	62.640
1200.0	130.17	-9.05264E+05	411.93	-1.39958E+06	60.920
1250.0	131.44	-8.98724E+05	417.27	-1.42031E+06	59.350
1300.0	132.64	-8.92121E+05	422.45	-1.44130E+06	57.911
1350.0	133.78	-8.85461E+05	427.47	-1.46255E+06	56.588
1400.0	134.86	-8.78744E+05	432.36	-1.48405E+06	55.369
1450.0	135.89	-8.71975E+05	437.11	-1.50578E+06	54.243
1500.0	136.87	-8.65156E+05	441.73	-1.52775E+06	53.200
1550.0	137.80	-8.58289E+05	446.24	-1.54995E+06	52.232
1600.0	138.68	-8.51377E+05	450.62	-1.57238E+06	51.332
1650.0	139.51	-8.44422E+05	454.90	-1.59502E+06	50.493
1700.0	140.29	-8.37427E+05	459.08	-1.61787E+06	49.710
1750.0	141.04	-8.30393E+05	463.16	-1.64092E+06	48.978
1800.0	141.74	-8.23324E+05	467.14	-1.66418E+06	48.292
1850.0	142.39	-8.16221E+05	471.03	-1.68763E+06	47.649
1900.0	143.01	-8.09085E+05	474.84	-1.71128E+06	47.045
1950.0	143.58	-8.01920E+05	478.56	-1.73512E+06	46.477
2000.0	144.12	-7.94728E+05	482.20	-1.75914E+06	45.943
2050.0	144.61	-7.87509E+05	485.77	-1.78334E+06	45.439
2100.0	145.07	-7.80267E+05	489.26	-1.80771E+06	44.963
2150.0	145.56	-7.73001E+05	492.68	-1.83226E+06	44.514
2200.0	146.03	-7.65711E+05	496.03	-1.85698E+06	44.089
2250.0	146.46	-7.58399E+05	499.32	-1.88186E+06	43.687
2300.0	146.88	-7.51065E+05	502.54	-1.90691E+06	43.306
2350.0	147.27	-7.43712E+05	505.70	-1.93212E+06	42.945
2400.0	147.64	-7.36339E+05	508.81	-1.95748E+06	42.602
2450.0	147.99	-7.28948E+05	511.86	-1.98300E+06	42.277
2500.0	148.32	-7.21540E+05	514.85	-2.00866E+06	41.968
2550.0	148.63	-7.14117E+05	517.79	-2.03448E+06	41.674
2600.0	148.93	-7.06677E+05	520.68	-2.06044E+06	41.394
2650.0	149.22	-6.99224E+05	523.52	-2.08655E+06	41.127
2700.0	149.49	-6.91756E+05	526.31	-2.11279E+06	40.873
2750.0	149.75	-6.84275E+05	529.06	-2.13918E+06	40.631
2800.0	150.00	-6.76781E+05	531.76	-2.16570E+06	40.401
2850.0	150.24	-6.69275E+05	534.41	-2.19235E+06	40.180
2900.0	150.46	-6.61758E+05	537.03	-2.21914E+06	39.970
2950.0	150.68	-6.54229E+05	539.60	-2.24605E+06	39.769
3000.0	150.89	-6.46690E+05	542.14	-2.27310E+06	39.577

Hf

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.688	0.00000E+00	43.560	-12987.	2.2753
300.00	25.697	47.532	43.719	-13068.	2.2753
350.00	25.979	1339.2	47.701	-15356.	2.2917
400.00	26.307	2646.2	51.191	-17830.	2.3283
450.00	26.663	3970.4	54.309	-20469.	2.3759
500.00	27.035	5312.7	57.138	-23256.	2.4295
550.00	27.418	6674.1	59.732	-26179.	2.4862
600.00	27.809	8054.7	62.135	-29226.	2.5443
650.00	28.206	9455.1	64.376	-32390.	2.6028
700.00	28.606	10875.	66.481	-35662.	2.6610
750.00	29.009	12316.	68.469	-39036.	2.7186
800.00	29.414	13776.	70.354	-42507.	2.7753
850.00	29.821	15257.	72.149	-46070.	2.8310
900.00	30.229	16758.	73.865	-49720.	2.8856
950.00	30.638	18280.	75.511	-53455.	2.9391
1000.0	31.048	19822.	77.092	-57270.	2.9914
1050.0	31.459	21385.	78.617	-61163.	3.0426
1100.0	31.870	22968.	80.090	-65131.	3.0927
1150.0	32.282	24572.	81.516	-69172.	3.1418
1200.0	32.694	26196.	82.899	-73282.	3.1898
1250.0	33.106	27841.	84.242	-77461.	3.2368
1300.0	33.519	29507.	85.548	-81706.	3.2829
1350.0	33.932	31193.	86.821	-86015.	3.3280
1400.0	34.345	32900.	88.062	-90387.	3.3723
1450.0	34.759	34628.	89.275	-94821.	3.4157
1500.0	35.172	36376.	90.460	-99314.	3.4583
1550.0	35.586	38145.	91.620	-1.03866E+05	3.5002
1600.0	36.000	39935.	92.756	-1.08476E+05	3.5413
1650.0	36.414	41745.	93.871	-1.13142E+05	3.5817
1700.0	36.828	43576.	94.964	-1.17863E+05	3.6214
1750.0	37.243	45428.	96.037	-1.22638E+05	3.6604
1800.0	37.657	47300.	97.092	-1.27466E+05	3.6989
1850.0	38.071	49193.	98.130	-1.32347E+05	3.7367
1900.0	38.486	51107.	99.150	-1.37279E+05	3.7740
1950.0	38.900	53042.	100.16	-1.42261E+05	3.8107
2000.0	39.315	54997.	101.15	-1.47294E+05	3.8468
2016.0	39.448	55627.	101.46	-1.48915E+05	3.8583
2016.0	32.828	61488.	104.37	-1.48915E+05	3.8583
2050.0	33.122	62609.	104.92	-1.52473E+05	3.8850
2100.0	33.577	64276.	105.72	-1.57739E+05	3.9234
2150.0	34.060	65967.	106.52	-1.63045E+05	3.9611
2200.0	34.574	67683.	107.31	-1.68390E+05	3.9980
2250.0	35.118	69425.	108.09	-1.73775E+05	4.0342
2300.0	35.696	71195.	108.87	-1.79199E+05	4.0696
2350.0	36.308	72995.	109.64	-1.84662E+05	4.1045
2400.0	36.954	74826.	110.41	-1.90163E+05	4.1387
2450.0	37.637	76691.	111.18	-1.95703E+05	4.1723
2500.0	38.356	78591.	111.95	-2.01281E+05	4.2054
2506.0	38.445	78821.	112.04	-2.01953E+05	4.2094
2506.0	44.000	1.06017E+05	122.89	-2.01953E+05	4.2094
2550.0	44.000	1.07953E+05	123.66	-2.07377E+05	4.2478
2600.0	44.000	1.10153E+05	124.51	-2.13582E+05	4.2908
2650.0	44.000	1.12353E+05	125.35	-2.19828E+05	4.3330
2700.0	44.000	1.14553E+05	126.17	-2.26117E+05	4.3744
2750.0	44.000	1.16753E+05	126.98	-2.32446E+05	4.4151
2800.0	44.000	1.18953E+05	127.77	-2.38815E+05	4.4550
2850.0	44.000	1.21153E+05	128.55	-2.45223E+05	4.4943
2900.0	44.000	1.23353E+05	129.32	-2.51670E+05	4.5329
2950.0	44.000	1.25553E+05	130.07	-2.58154E+05	4.5709
3000.0	44.000	1.27753E+05	130.81	-2.64676E+05	4.6083

HfBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	103.56	-6.56888E+05	418.93	-7.81791E+05	136.96
300.00	103.61	-6.56696E+05	419.57	-7.82567E+05	136.25
350.00	104.76	-6.51485E+05	435.63	-8.03957E+05	119.98
400.00	105.51	-6.46227E+05	449.67	-8.26097E+05	107.87
450.00	106.03	-6.40938E+05	462.13	-8.48898E+05	98.535
500.00	106.40	-6.35626E+05	473.33	-8.72289E+05	91.125
550.00	106.68	-6.30299E+05	483.48	-8.96213E+05	85.113
600.00	106.90	-6.24959E+05	492.77	-9.20623E+05	80.145
650.00	107.07	-6.19610E+05	501.34	-9.45478E+05	75.978
700.00	107.20	-6.14253E+05	509.28	-9.70746E+05	72.436
750.00	107.32	-6.08890E+05	516.68	-9.96397E+05	69.393
800.00	107.41	-6.03522E+05	523.60	-1.02241E+06	66.755
850.00	107.49	-5.98149E+05	530.12	-1.04875E+06	64.447
900.00	107.56	-5.92773E+05	536.26	-1.07541E+06	62.414
950.00	107.62	-5.87394E+05	542.08	-1.10237E+06	60.611
1000.0	107.67	-5.82012E+05	547.60	-1.12961E+06	59.004

HfB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	49.791	-3.28862E+05	42.677	-3.41587E+05	59.843
300.00	50.124	-3.28770E+05	42.986	-3.41666E+05	59.488
350.00	57.299	-3.26071E+05	51.292	-3.44023E+05	51.341
400.00	62.093	-3.23079E+05	59.275	-3.46789E+05	45.285
450.00	65.502	-3.19885E+05	66.796	-3.49943E+05	40.619
500.00	68.053	-3.16543E+05	73.836	-3.53461E+05	36.925
550.00	70.041	-3.13089E+05	80.419	-3.57319E+05	33.934
600.00	71.648	-3.09545E+05	86.584	-3.61496E+05	31.470
650.00	72.985	-3.05929E+05	92.373	-3.65971E+05	29.409
700.00	74.126	-3.02250E+05	97.825	-3.70728E+05	27.663
750.00	75.123	-2.98518E+05	102.97	-3.75749E+05	26.169
800.00	76.009	-2.94740E+05	107.85	-3.81020E+05	24.877
850.00	76.811	-2.90919E+05	112.48	-3.86530E+05	23.753
900.00	77.546	-2.87060E+05	116.89	-3.92265E+05	22.766
950.00	78.229	-2.83165E+05	121.11	-3.98216E+05	21.895
1000.0	78.868	-2.79238E+05	125.14	-4.04373E+05	21.122
1050.0	79.474	-2.75279E+05	129.00	-4.10727E+05	20.432
1100.0	80.050	-2.71291E+05	132.71	-4.17270E+05	19.814
1150.0	80.603	-2.67274E+05	136.28	-4.23995E+05	19.258
1200.0	81.136	-2.63231E+05	139.72	-4.30896E+05	18.756
1250.0	81.653	-2.59161E+05	143.04	-4.37965E+05	18.301
1300.0	82.155	-2.55066E+05	146.26	-4.45198E+05	17.888
1350.0	82.645	-2.50946E+05	149.37	-4.52589E+05	17.511
1400.0	83.125	-2.46801E+05	152.38	-4.60133E+05	17.167
1450.0	83.596	-2.42633E+05	155.31	-4.67826E+05	16.852
1500.0	84.059	-2.38442E+05	158.15	-4.75662E+05	16.564
1550.0	84.515	-2.34228E+05	160.91	-4.83639E+05	16.298
1600.0	84.965	-2.29990E+05	163.60	-4.91752E+05	16.054
1650.0	85.410	-2.25731E+05	166.22	-4.99998E+05	15.828
1700.0	85.850	-2.21450E+05	168.78	-5.08373E+05	15.620
1750.0	86.286	-2.17146E+05	171.27	-5.16875E+05	15.427
1800.0	86.719	-2.12821E+05	173.71	-5.25500E+05	15.249
1850.0	87.148	-2.08474E+05	176.09	-5.34245E+05	15.084
1900.0	87.574	-2.04106E+05	178.42	-5.43108E+05	14.931
1950.0	87.997	-1.99717E+05	180.70	-5.52086E+05	14.788
2000.0	88.418	-1.95307E+05	182.94	-5.61177E+05	14.656
2050.0	88.837	-1.90875E+05	185.12	-5.70379E+05	14.533
2100.0	89.254	-1.86423E+05	187.27	-5.79689E+05	14.419
2150.0	89.669	-1.81950E+05	189.37	-5.89105E+05	14.312
2200.0	90.083	-1.77456E+05	191.44	-5.98626E+05	14.213
2250.0	90.495	-1.72942E+05	193.47	-6.08249E+05	14.120
2300.0	90.906	-1.68406E+05	195.46	-6.17972E+05	14.034
2350.0	91.315	-1.63851E+05	197.42	-6.27795E+05	13.954
2400.0	91.724	-1.59275E+05	199.35	-6.37714E+05	13.879
2450.0	92.131	-1.54679E+05	201.25	-6.47729E+05	13.809
2500.0	92.538	-1.50062E+05	203.11	-6.57838E+05	13.744
2550.0	92.943	-1.45425E+05	204.95	-6.68040E+05	13.684
2600.0	93.348	-1.40768E+05	206.76	-6.78332E+05	13.628
2650.0	93.752	-1.36090E+05	208.54	-6.88715E+05	13.575
2700.0	94.155	-1.31392E+05	210.29	-6.99186E+05	13.526
2750.0	94.557	-1.26675E+05	212.03	-7.09744E+05	13.481
2800.0	94.959	-1.21937E+05	213.73	-7.20388E+05	13.439
2850.0	95.361	-1.17179E+05	215.42	-7.31117E+05	13.400
2900.0	95.762	-1.12401E+05	217.08	-7.41929E+05	13.363
2950.0	96.162	-1.07603E+05	218.72	-7.52824E+05	13.330
3000.0	96.562	-1.02784E+05	220.34	-7.63801E+05	13.299

Hg

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.975	0.00000E+00	75.900	-22630.	3.9645
300.00	27.962	51.742	76.073	-22770.	3.9645
350.00	27.647	1441.6	80.359	-26684.	3.9823
400.00	27.414	2817.8	84.034	-30796.	4.0214
450.00	27.263	4184.4	87.254	-35080.	4.0718
500.00	27.174	5545.1	90.121	-39515.	4.1280
550.00	27.138	6902.7	92.709	-44087.	4.1869
600.00	27.148	8259.7	95.070	-48783.	4.2468
650.00	27.200	9618.2	97.245	-53591.	4.3065
700.00	27.291	10980.	99.264	-58504.	4.3655
750.00	27.440	12349.	101.15	-63515.	4.4235
800.00	27.591	13724.	102.93	-68618.	4.4802
850.00	27.743	15108.	104.60	-73807.	4.5355
900.00	27.897	16499.	106.20	-79077.	4.5894
950.00	28.052	17897.	107.71	-84425.	4.6419
1000.0	28.208	19304.	109.15	-89846.	4.6930
1050.0	28.364	20718.	110.53	-95339.	4.7427
1100.0	28.521	22140.	111.85	-1.00899E+05	4.7912
1150.0	28.678	23570.	113.12	-1.06523E+05	4.8383
1200.0	28.835	25008.	114.35	-1.12210E+05	4.8843
1250.0	28.993	26454.	115.53	-1.17957E+05	4.9290
1300.0	29.150	27907.	116.67	-1.23762E+05	4.9727
1350.0	29.308	29369.	117.77	-1.29624E+05	5.0153
1400.0	29.465	30838.	118.84	-1.35539E+05	5.0569
1450.0	29.622	32315.	119.88	-1.41507E+05	5.0975
1500.0	29.780	33800.	120.88	-1.47526E+05	5.1372
1550.0	29.937	35293.	121.86	-1.53595E+05	5.1760
1600.0	30.094	36794.	122.82	-1.59712E+05	5.2139
1650.0	30.251	38303.	123.74	-1.65876E+05	5.2511
1700.0	30.408	39819.	124.65	-1.72086E+05	5.2874
1750.0	30.565	41344.	125.53	-1.78341E+05	5.3231
1800.0	30.721	42876.	126.40	-1.84639E+05	5.3580
1850.0	30.877	44416.	127.24	-1.90981E+05	5.3922
1900.0	31.033	45963.	128.07	-1.97363E+05	5.4258
1950.0	31.189	47519.	128.87	-2.03787E+05	5.4587
2000.0	31.345	49082.	129.67	-2.10251E+05	5.4910

HgCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.423	78450.	259.96	943.82	-0.16535
300.00	36.439	78517.	260.18	462.69	-8.1E-02
350.00	36.795	80349.	265.83	-12691.	1.8940
400.00	37.041	82195.	270.76	-26108.	3.4093
450.00	37.223	84052.	275.13	-39758.	4.6148
500.00	37.365	85917.	279.06	-53614.	5.6009
550.00	37.481	87788.	282.63	-67658.	6.4254
600.00	37.580	89665.	285.89	-81872.	7.1274
650.00	37.666	91546.	288.91	-96243.	7.7340
700.00	37.743	93431.	291.70	-1.10759E+05	8.2647
750.00	37.813	95320.	294.31	-1.25410E+05	8.7341
800.00	37.878	97212.	296.75	-1.40187E+05	9.1530
850.00	37.939	99108.	299.05	-1.55082E+05	9.5299
900.00	37.997	1.01006E+05	301.22	-1.70089E+05	9.8715
950.00	38.053	1.02907E+05	303.27	-1.85202E+05	10.183
1000.0	38.106	1.04811E+05	305.23	-2.00415E+05	10.468
1050.0	38.158	1.06718E+05	307.09	-2.15723E+05	10.731
1100.0	38.209	1.08627E+05	308.86	-2.31122E+05	10.975
1150.0	38.258	1.10539E+05	310.56	-2.46608E+05	11.201
1200.0	38.307	1.12453E+05	312.19	-2.62177E+05	11.412
1250.0	38.354	1.14369E+05	313.76	-2.77826E+05	11.609
1300.0	38.401	1.16288E+05	315.26	-2.93552E+05	11.795
1350.0	38.448	1.18210E+05	316.71	-3.09351E+05	11.969
1400.0	38.494	1.20133E+05	318.11	-3.25222E+05	12.134
1450.0	38.539	1.22059E+05	319.46	-3.41162E+05	12.290
1500.0	38.584	1.23987E+05	320.77	-3.57168E+05	12.437
1550.0	38.628	1.25917E+05	322.04	-3.73238E+05	12.578
1600.0	38.673	1.27850E+05	323.26	-3.89371E+05	12.711
1650.0	38.717	1.29785E+05	324.45	-4.05564E+05	12.839
1700.0	38.761	1.31722E+05	325.61	-4.21815E+05	12.960
1750.0	38.804	1.33661E+05	326.73	-4.38124E+05	13.077
1800.0	38.847	1.35602E+05	327.83	-4.54488E+05	13.189
1850.0	38.890	1.37545E+05	328.89	-4.70906E+05	13.296
1900.0	38.933	1.39491E+05	329.93	-4.87377E+05	13.399
1950.0	38.976	1.41439E+05	330.94	-5.03899E+05	13.498
2000.0	39.019	1.43389E+05	331.93	-5.20471E+05	13.593
2050.0	39.061	1.45341E+05	332.89	-5.37092E+05	13.685
2100.0	39.103	1.47295E+05	333.84	-5.53760E+05	13.774
2150.0	39.146	1.49251E+05	334.76	-5.70475E+05	13.859
2200.0	39.188	1.51209E+05	335.66	-5.87235E+05	13.942
2250.0	39.230	1.53170E+05	336.54	-6.04040E+05	14.023
2300.0	39.271	1.55132E+05	337.40	-6.20889E+05	14.100
2350.0	39.313	1.57097E+05	338.25	-6.37780E+05	14.176
2400.0	39.355	1.59063E+05	339.07	-6.54713E+05	14.249
2450.0	39.396	1.61032E+05	339.89	-6.71687E+05	14.320
2500.0	39.438	1.63003E+05	340.68	-6.88701E+05	14.389
2550.0	39.479	1.64976E+05	341.46	-7.05755E+05	14.456
2600.0	39.521	1.66951E+05	342.23	-7.22847E+05	14.522
2650.0	39.562	1.68928E+05	342.98	-7.39978E+05	14.585
2700.0	39.603	1.70907E+05	343.72	-7.57145E+05	14.647
2750.0	39.644	1.72888E+05	344.45	-7.74350E+05	14.708
2800.0	39.685	1.74872E+05	345.16	-7.91590E+05	14.767
2850.0	39.726	1.76857E+05	345.87	-8.08866E+05	14.824
2900.0	39.767	1.78844E+05	346.56	-8.26177E+05	14.881
2950.0	39.808	1.80834E+05	347.24	-8.43522E+05	14.936
3000.0	39.848	1.82825E+05	347.91	-8.60900E+05	14.989

HgCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	58.115	-1.46294E+05	294.80	-2.34189E+05	41.028
300.00	58.163	-1.46186E+05	295.16	-2.34734E+05	40.870
350.00	59.186	-1.43250E+05	304.21	-2.49724E+05	37.268
400.00	59.863	-1.40273E+05	312.16	-2.65137E+05	34.622
450.00	60.338	-1.37267E+05	319.24	-2.80925E+05	32.608
500.00	60.686	-1.34241E+05	325.62	-2.97049E+05	31.032
550.00	60.951	-1.31200E+05	331.41	-3.13477E+05	29.771
600.00	61.159	-1.28147E+05	336.72	-3.30182E+05	28.744
650.00	61.325	-1.25085E+05	341.63	-3.47143E+05	27.896
700.00	61.461	-1.22015E+05	346.18	-3.64339E+05	27.187
750.00	61.575	-1.18939E+05	350.42	-3.81755E+05	26.587
800.00	61.670	-1.15858E+05	354.40	-3.99377E+05	26.076
850.00	61.750	-1.12773E+05	358.14	-4.17191E+05	25.637
900.00	61.819	-1.09683E+05	361.67	-4.35187E+05	25.257
950.00	61.879	-1.06591E+05	365.02	-4.53355E+05	24.927
1000.0	61.930	-1.03496E+05	368.19	-4.71686E+05	24.638
1050.0	61.974	-1.00398E+05	371.21	-4.90172E+05	24.384
1100.0	62.011	-97298.	374.10	-5.08805E+05	24.161
1150.0	62.043	-94197.	376.85	-5.27579E+05	23.963
1200.0	62.070	-91094.	379.50	-5.46488E+05	23.787
1250.0	62.093	-87990.	382.03	-5.65527E+05	23.631
1300.0	62.111	-84885.	384.47	-5.84690E+05	23.493
1350.0	62.126	-81779.	386.81	-6.03972E+05	23.368
1400.0	62.136	-78672.	389.07	-6.23369E+05	23.258
1450.0	62.151	-75565.	391.25	-6.42878E+05	23.158
1500.0	62.165	-72457.	393.36	-6.62493E+05	23.069
1550.0	62.177	-69349.	395.40	-6.82212E+05	22.990
1600.0	62.188	-66240.	397.37	-7.02032E+05	22.918
1650.0	62.198	-63130.	399.28	-7.21948E+05	22.854
1700.0	62.208	-60020.	401.14	-7.41959E+05	22.797
1750.0	62.216	-56909.	402.94	-7.62061E+05	22.746
1800.0	62.224	-53798.	404.70	-7.82253E+05	22.700
1850.0	62.231	-50687.	406.40	-8.02530E+05	22.659
1900.0	62.238	-47575.	408.06	-8.22892E+05	22.622
1950.0	62.244	-44463.	409.68	-8.43336E+05	22.590
2000.0	62.249	-41351.	411.25	-8.63859E+05	22.561
2050.0	62.255	-38238.	412.79	-8.84460E+05	22.536
2100.0	62.260	-35125.	414.29	-9.05138E+05	22.513
2150.0	62.264	-32012.	415.76	-9.25889E+05	22.494
2200.0	62.268	-28899.	417.19	-9.46713E+05	22.477
2250.0	62.272	-25785.	418.59	-9.67607E+05	22.463
2300.0	62.276	-22672.	419.96	-9.88571E+05	22.451
2350.0	62.280	-19558.	421.30	-1.00960E+06	22.440
2400.0	62.283	-16444.	422.61	-1.03070E+06	22.432
2450.0	62.286	-13329.	423.89	-1.05186E+06	22.425
2500.0	62.289	-10215.	425.15	-1.07309E+06	22.420
2550.0	62.292	-7100.5	426.38	-1.09438E+06	22.417
2600.0	62.294	-3985.9	427.59	-1.11573E+06	22.415
2650.0	62.297	-871.06	428.78	-1.13714E+06	22.414
2700.0	62.299	2243.8	429.94	-1.15860E+06	22.414
2750.0	62.301	5358.8	431.09	-1.18013E+06	22.415
2800.0	62.304	8474.0	432.21	-1.20171E+06	22.418
2850.0	62.306	11589.	433.31	-1.22335E+06	22.421
2900.0	62.308	14705.	434.40	-1.24504E+06	22.425
2950.0	62.309	17820.	435.46	-1.26679E+06	22.430
3000.0	62.311	20935.	436.51	-1.28859E+06	22.436

HgBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.213	1.04182E+05	271.55	23220.	-4.0680
300.00	37.222	1.04250E+05	271.78	22718.	-3.9554
350.00	37.418	1.06117E+05	277.53	8981.4	-1.3404
400.00	37.566	1.07991E+05	282.54	-5023.0	0.65592
450.00	37.685	1.09873E+05	286.97	-19263.	2.2359
500.00	37.786	1.11760E+05	290.94	-33712.	3.5218
550.00	37.876	1.13651E+05	294.55	-48351.	4.5919
600.00	37.958	1.15547E+05	297.85	-63162.	5.4986
650.00	38.034	1.17447E+05	300.89	-78131.	6.2786
700.00	38.106	1.19350E+05	303.71	-93247.	6.9580
750.00	38.176	1.21257E+05	306.34	-1.08499E+05	7.5564
800.00	38.243	1.23168E+05	308.81	-1.23879E+05	8.0883
850.00	38.308	1.25082E+05	311.13	-1.39378E+05	8.5649
900.00	38.372	1.26999E+05	313.32	-1.54990E+05	8.9951
950.00	38.435	1.28919E+05	315.40	-1.70708E+05	9.3859
1000.0	38.497	1.30842E+05	317.37	-1.86527E+05	9.7430
1050.0	38.558	1.32769E+05	319.25	-2.02443E+05	10.071
1100.0	38.618	1.34698E+05	321.04	-2.18451E+05	10.373
1150.0	38.679	1.36630E+05	322.76	-2.34547E+05	10.653
1200.0	38.738	1.38566E+05	324.41	-2.50726E+05	10.914
1250.0	38.798	1.40504E+05	325.99	-2.66986E+05	11.156
1300.0	38.857	1.42446E+05	327.52	-2.83324E+05	11.384
1350.0	38.916	1.44390E+05	328.98	-2.99737E+05	11.597
1400.0	38.974	1.46337E+05	330.40	-3.16222E+05	11.798
1450.0	39.033	1.48287E+05	331.77	-3.32776E+05	11.988
1500.0	39.091	1.50240E+05	333.09	-3.49398E+05	12.167
1550.0	39.149	1.52196E+05	334.37	-3.66085E+05	12.337
1600.0	39.207	1.54155E+05	335.62	-3.82835E+05	12.498
1650.0	39.265	1.56117E+05	336.83	-3.99646E+05	12.651
1700.0	39.322	1.58082E+05	338.00	-4.16517E+05	12.798
1750.0	39.380	1.60049E+05	339.14	-4.33445E+05	12.937
1800.0	39.438	1.62020E+05	340.25	-4.50430E+05	13.071
1850.0	39.495	1.63993E+05	341.33	-4.67470E+05	13.199
1900.0	39.553	1.65969E+05	342.39	-4.84563E+05	13.321
1950.0	39.610	1.67948E+05	343.41	-5.01708E+05	13.439
2000.0	39.667	1.69930E+05	344.42	-5.18904E+05	13.552
2050.0	39.725	1.71915E+05	345.40	-5.36149E+05	13.661
2100.0	39.782	1.73903E+05	346.36	-5.53443E+05	13.766
2150.0	39.839	1.75893E+05	347.29	-5.70784E+05	13.867
2200.0	39.896	1.77887E+05	348.21	-5.88172E+05	13.965
2250.0	39.953	1.79883E+05	349.11	-6.05605E+05	14.059
2300.0	40.010	1.81882E+05	349.98	-6.23082E+05	14.150
2350.0	40.067	1.83884E+05	350.85	-6.40603E+05	14.239
2400.0	40.124	1.85889E+05	351.69	-6.58166E+05	14.324
2450.0	40.181	1.87896E+05	352.52	-6.75772E+05	14.407
2500.0	40.238	1.89907E+05	353.33	-6.93418E+05	14.488
2550.0	40.295	1.91920E+05	354.13	-7.11104E+05	14.566
2600.0	40.352	1.93936E+05	354.91	-7.28830E+05	14.642
2650.0	40.409	1.95955E+05	355.68	-7.46595E+05	14.716
2700.0	40.466	1.97977E+05	356.44	-7.64398E+05	14.788
2750.0	40.523	2.00002E+05	357.18	-7.82239E+05	14.858
2800.0	40.579	2.02029E+05	357.91	-8.00116E+05	14.926
2850.0	40.636	2.04060E+05	358.63	-8.18029E+05	14.992
2900.0	40.693	2.06093E+05	359.33	-8.35978E+05	15.057
2950.0	40.750	2.08129E+05	360.03	-8.53963E+05	15.120
3000.0	40.807	2.10168E+05	360.72	-8.71981E+05	15.182

HgBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.281	-85454.	320.23	-1.80931E+05	31.698
300.00	60.306	-85342.	320.60	-1.81524E+05	31.605
350.00	60.838	-82313.	329.94	-1.97793E+05	29.518
400.00	61.184	-79262.	338.09	-2.14498E+05	28.010
450.00	61.422	-76196.	345.31	-2.31587E+05	26.881
500.00	61.593	-73121.	351.79	-2.49017E+05	26.014
550.00	61.720	-70038.	357.67	-2.66756E+05	25.334
600.00	61.817	-66949.	363.04	-2.84776E+05	24.791
650.00	61.893	-63856.	368.00	-3.03053E+05	24.353
700.00	61.954	-60760.	372.58	-3.21569E+05	23.995
750.00	62.004	-57661.	376.86	-3.40307E+05	23.700
800.00	62.045	-54560.	380.86	-3.59251E+05	23.456
850.00	62.079	-51457.	384.63	-3.78389E+05	23.252
900.00	62.108	-48352.	388.18	-3.97710E+05	23.082
950.00	62.132	-45246.	391.53	-4.17203E+05	22.939
1000.0	62.154	-42139.	394.72	-4.36860E+05	22.819
1050.0	62.172	-39031.	397.75	-4.56673E+05	22.718
1100.0	62.189	-35922.	400.65	-4.76633E+05	22.633
1150.0	62.203	-32812.	403.41	-4.96735E+05	22.562
1200.0	62.216	-29701.	406.06	-5.16973E+05	22.503
1250.0	62.227	-26590.	408.60	-5.37339E+05	22.454
1300.0	62.237	-23479.	411.04	-5.57831E+05	22.413
1350.0	62.247	-20367.	413.39	-5.78442E+05	22.381
1400.0	62.255	-17254.	415.65	-5.99168E+05	22.355
1450.0	62.263	-14141.	417.84	-6.20006E+05	22.334
1500.0	62.269	-11028.	419.95	-6.40951E+05	22.319
1550.0	62.276	-7914.2	421.99	-6.62000E+05	22.309
1600.0	62.281	-4800.3	423.97	-6.83149E+05	22.302
1650.0	62.287	-1686.1	425.88	-7.04395E+05	22.299
1700.0	62.292	1428.4	427.74	-7.25736E+05	22.299
1750.0	62.296	4543.1	429.55	-7.47169E+05	22.301
1800.0	62.300	7658.0	431.30	-7.68690E+05	22.306
1850.0	62.304	10773.	433.01	-7.90299E+05	22.313
1900.0	62.307	13888.	434.67	-8.11991E+05	22.323
1950.0	62.311	17004.	436.29	-8.33765E+05	22.333
2000.0	62.314	20119.	437.87	-8.55619E+05	22.346
2050.0	62.316	23235.	439.41	-8.77551E+05	22.360
2100.0	62.319	26351.	440.91	-8.99560E+05	22.375
2150.0	62.321	29467.	442.38	-9.21642E+05	22.391
2200.0	62.323	32583.	443.81	-9.43797E+05	22.408
2250.0	62.325	35699.	445.21	-9.66022E+05	22.426
2300.0	62.327	38816.	446.58	-9.88317E+05	22.445
2350.0	62.329	41932.	447.92	-1.01068E+06	22.464
2400.0	62.330	45049.	449.23	-1.03311E+06	22.484
2450.0	62.331	48165.	450.52	-1.05560E+06	22.505
2500.0	62.333	51282.	451.78	-1.07816E+06	22.526
2550.0	62.334	54398.	453.01	-1.10078E+06	22.548
2600.0	62.334	57515.	454.22	-1.12346E+06	22.570
2650.0	62.335	60632.	455.41	-1.14620E+06	22.592
2700.0	62.336	63749.	456.57	-1.16900E+06	22.615
2750.0	62.336	66865.	457.72	-1.19186E+06	22.638
2800.0	62.337	69982.	458.84	-1.21477E+06	22.661
2850.0	62.337	73099.	459.94	-1.23774E+06	22.685
2900.0	62.337	76216.	461.03	-1.26077E+06	22.708
2950.0	62.337	79333.	462.09	-1.28384E+06	22.732
3000.0	62.337	82450.	463.14	-1.30698E+06	22.756

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T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.154	0.00000E+00	75.019	-22367.	3.9185
300.00	27.169	50.249	75.187	-22506.	3.9185
350.00	27.533	1418.1	79.403	-26373.	3.9359
400.00	27.826	2802.4	83.100	-30438.	3.9746
450.00	28.048	4199.5	86.391	-34676.	4.0250
500.00	28.198	5605.9	89.354	-39071.	4.0816
550.00	28.277	7018.1	92.046	-43607.	4.1414
600.00	28.285	8432.4	94.507	-48272.	4.2023
650.00	28.276	9845.8	96.770	-53055.	4.2634
700.00	28.412	11262.	98.870	-57946.	4.3239
750.00	28.693	12689.	100.84	-62939.	4.3834
800.00	29.118	14134.	102.70	-68028.	4.4417
850.00	29.689	15604.	104.48	-73208.	4.4987
900.00	30.405	17105.	106.20	-78476.	4.5545
950.00	31.038	18641.	107.86	-83828.	4.6090
1000.0	31.840	20212.	109.47	-89261.	4.6624
1050.0	32.762	21827.	111.05	-94774.	4.7146
1100.0	33.765	23490.	112.60	-1.00365E+05	4.7658
1150.0	34.819	25204.	114.12	-1.06033E+05	4.8161
1200.0	35.899	26972.	115.62	-1.11777E+05	4.8654
1250.0	37.126	28797.	117.11	-1.17596E+05	4.9139
1300.0	38.462	30686.	118.60	-1.23488E+05	4.9617
1350.0	39.897	32645.	120.07	-1.29455E+05	5.0088
1400.0	41.422	34677.	121.55	-1.35496E+05	5.0553
1450.0	43.028	36788.	123.03	-1.41610E+05	5.1012
1500.0	44.709	38981.	124.52	-1.47799E+05	5.1467
1550.0	46.461	41260.	126.01	-1.54063E+05	5.1917
1600.0	48.278	43629.	127.52	-1.60401E+05	5.2364
1650.0	50.157	46089.	129.03	-1.66815E+05	5.2808
1700.0	52.094	48645.	130.56	-1.73304E+05	5.3249
1703.0	52.212	48802.	130.65	-1.73696E+05	5.3275
1703.0	48.116	53074.	133.16	-1.73696E+05	5.3275
1745.0	48.116	55094.	134.33	-1.79313E+05	5.3674
1745.0	43.932	66851.	141.07	-1.79314E+05	5.3674
1750.0	43.932	67071.	141.19	-1.80019E+05	5.3731
1800.0	43.932	69268.	142.43	-1.87110E+05	5.4297
1850.0	43.932	71464.	143.64	-1.94262E+05	5.4848
1900.0	43.932	73661.	144.81	-2.01473E+05	5.5387
1950.0	43.932	75858.	145.95	-2.08742E+05	5.5914
2000.0	43.932	78054.	147.06	-2.16067E+05	5.6430
2050.0	43.932	80251.	148.15	-2.23448E+05	5.6934
2100.0	43.932	82447.	149.20	-2.30882E+05	5.7427
2150.0	43.932	84644.	150.24	-2.38368E+05	5.7910
2200.0	43.932	86841.	151.25	-2.45905E+05	5.8384
2250.0	43.932	89037.	152.24	-2.53492E+05	5.8848
2300.0	43.932	91234.	153.20	-2.61128E+05	5.9303
2350.0	43.932	93430.	154.15	-2.68812E+05	5.9749
2400.0	43.932	95627.	155.07	-2.76542E+05	6.0186
2450.0	43.932	97824.	155.98	-2.84319E+05	6.0616
2500.0	43.932	1.00020E+05	156.86	-2.92140E+05	6.1038
2550.0	43.932	1.02217E+05	157.73	-3.00005E+05	6.1452
2600.0	43.932	1.04413E+05	158.59	-3.07913E+05	6.1859
2650.0	43.932	1.06610E+05	159.42	-3.15863E+05	6.2259
2700.0	43.932	1.08807E+05	160.24	-3.23855E+05	6.2652
2750.0	43.932	1.11003E+05	161.05	-3.31887E+05	6.3038
2800.0	43.932	1.13200E+05	161.84	-3.39960E+05	6.3419
2850.0	43.932	1.15396E+05	162.62	-3.48071E+05	6.3793
2900.0	43.932	1.17593E+05	163.38	-3.56222E+05	6.4161
2950.0	43.932	1.19790E+05	164.14	-3.64410E+05	6.4523
3000.0	43.932	1.21986E+05	164.87	-3.72635E+05	6.4880

I<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.786	1.06763E+05	180.78	52863.	-9.2611
300.00	20.786	1.06802E+05	180.91	52528.	-9.1457
350.00	20.786	1.07841E+05	184.12	43400.	-6.4770
400.00	20.786	1.08880E+05	186.89	34124.	-4.4560
450.00	20.786	1.09919E+05	189.34	24717.	-2.8690
500.00	20.786	1.10959E+05	191.53	15194.	-1.5873
550.00	20.786	1.11998E+05	193.51	5567.1	-0.52871
600.00	20.786	1.13037E+05	195.32	-4154.3	0.36165
650.00	20.786	1.14077E+05	196.98	-13962.	1.1220
700.00	20.786	1.15116E+05	198.52	-23851.	1.7797
750.00	20.786	1.16155E+05	199.96	-33813.	2.3549
800.00	20.786	1.17195E+05	201.30	-43845.	2.8627
850.00	20.786	1.18234E+05	202.56	-53942.	3.3148
900.00	20.780	1.19273E+05	203.75	-64099.	3.7201
950.00	20.785	1.20312E+05	204.87	-74315.	4.0860
1000.0	20.792	1.21352E+05	205.94	-84586.	4.4182
1050.0	20.800	1.22392E+05	206.95	-94908.	4.7213
1100.0	20.810	1.23432E+05	207.92	-1.05280E+05	4.9992
1150.0	20.822	1.24473E+05	208.85	-1.15699E+05	5.2551
1200.0	20.835	1.25514E+05	209.73	-1.26164E+05	5.4916
1250.0	20.850	1.26556E+05	210.58	-1.36672E+05	5.7111
1300.0	20.867	1.27599E+05	211.40	-1.47222E+05	5.9153
1350.0	20.886	1.28643E+05	212.19	-1.57812E+05	6.1059
1400.0	20.906	1.29688E+05	212.95	-1.68440E+05	6.2844
1450.0	20.928	1.30734E+05	213.68	-1.79106E+05	6.4519
1500.0	20.952	1.31781E+05	214.39	-1.89808E+05	6.6095
1550.0	20.977	1.32829E+05	215.08	-2.00545E+05	6.7581
1600.0	21.005	1.33878E+05	215.75	-2.11315E+05	6.8986
1650.0	21.034	1.34929E+05	216.39	-2.22119E+05	7.0315
1700.0	21.065	1.35982E+05	217.02	-2.32954E+05	7.1576
1750.0	21.097	1.37036E+05	217.63	-2.43821E+05	7.2775
1800.0	21.132	1.38091E+05	218.23	-2.54717E+05	7.3915
1850.0	21.168	1.39149E+05	218.81	-2.65643E+05	7.5002
1900.0	21.205	1.40208E+05	219.37	-2.76598E+05	7.6040
1950.0	21.245	1.41270E+05	219.92	-2.87580E+05	7.7032
2000.0	21.287	1.42333E+05	220.46	-2.98590E+05	7.7982
2050.0	21.330	1.43398E+05	220.99	-3.09626E+05	7.8892
2100.0	21.375	1.44466E+05	221.50	-3.20689E+05	7.9765
2150.0	21.421	1.45536E+05	222.01	-3.31776E+05	8.0604
2200.0	21.470	1.46608E+05	222.50	-3.42889E+05	8.1410
2250.0	21.520	1.47683E+05	222.98	-3.54026E+05	8.2186
2300.0	21.572	1.48760E+05	223.46	-3.65187E+05	8.2934
2350.0	21.626	1.49840E+05	223.92	-3.76371E+05	8.3656
2400.0	21.681	1.50923E+05	224.38	-3.87579E+05	8.4352
2450.0	21.737	1.52008E+05	224.82	-3.98809E+05	8.5025
2500.0	21.790	1.53096E+05	225.26	-4.10061E+05	8.5675
2550.0	21.840	1.54187E+05	225.69	-4.21335E+05	8.6305
2600.0	21.889	1.55280E+05	226.12	-4.32630E+05	8.6914
2650.0	21.935	1.56376E+05	226.54	-4.43947E+05	8.7505
2700.0	21.979	1.57474E+05	226.95	-4.55284E+05	8.8078
2750.0	22.021	1.58574E+05	227.35	-4.66641E+05	8.8634
2800.0	22.062	1.59676E+05	227.75	-4.78019E+05	8.9173
2850.0	22.101	1.60780E+05	228.14	-4.89416E+05	8.9698
2900.0	22.138	1.61886E+05	228.52	-5.00833E+05	9.0207
2950.0	22.174	1.62994E+05	228.90	-5.12268E+05	9.0703
3000.0	22.208	1.64103E+05	229.28	-5.23723E+05	9.1186

I2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.876	62420.	260.68	-15303.	2.6809
300.00	36.888	62488.	260.91	-15785.	2.7484
350.00	37.135	64339.	266.62	-28977.	4.3245
400.00	37.294	66200.	271.59	-42435.	5.5413
450.00	37.405	68068.	275.99	-56127.	6.5148
500.00	37.487	69940.	279.93	-70026.	7.3154
550.00	37.553	71816.	283.51	-84114.	7.9883
600.00	37.610	73696.	286.78	-98372.	8.5638
650.00	37.662	75577.	289.79	-1.12787E+05	9.0635
700.00	37.712	77462.	292.58	-1.27348E+05	9.5026
750.00	37.762	79349.	295.19	-1.42043E+05	9.8925
800.00	37.814	81238.	297.63	-1.56864E+05	10.242
850.00	37.869	83130.	299.92	-1.71803E+05	10.557
900.00	37.926	85025.	302.09	-1.86854E+05	10.844
950.00	37.988	86923.	304.14	-2.02010E+05	11.107
1000.0	38.053	88824.	306.09	-2.17266E+05	11.349
1050.0	38.123	90728.	307.95	-2.32617E+05	11.572
1100.0	38.198	92636.	309.72	-2.48059E+05	11.779
1150.0	38.278	94548.	311.42	-2.63588E+05	11.972
1200.0	38.363	96464.	313.05	-2.79200E+05	12.153
1250.0	38.453	98384.	314.62	-2.94893E+05	12.323
1300.0	38.549	1.00309E+05	316.13	-3.10662E+05	12.482
1350.0	38.650	1.02239E+05	317.59	-3.26505E+05	12.633
1400.0	38.756	1.04174E+05	319.00	-3.42420E+05	12.776
1450.0	38.868	1.06115E+05	320.36	-3.58404E+05	12.911
1500.0	38.986	1.08061E+05	321.68	-3.74455E+05	13.039
1550.0	39.109	1.10014E+05	322.96	-3.90571E+05	13.162
1600.0	39.237	1.11972E+05	324.20	-4.06750E+05	13.279
1650.0	39.372	1.13938E+05	325.41	-4.22990E+05	13.390
1700.0	39.512	1.15910E+05	326.59	-4.39290E+05	13.497
1750.0	39.658	1.17889E+05	327.74	-4.55649E+05	13.600
1800.0	39.809	1.19875E+05	328.85	-4.72064E+05	13.699
1850.0	39.967	1.21870E+05	329.95	-4.88534E+05	13.793
1900.0	40.130	1.23872E+05	331.02	-5.05058E+05	13.885
1950.0	40.299	1.25883E+05	332.06	-5.21635E+05	13.973
2000.0	40.473	1.27902E+05	333.08	-5.38264E+05	14.058
2050.0	40.659	1.29931E+05	334.08	-5.54943E+05	14.140
2100.0	40.826	1.31968E+05	335.07	-5.71672E+05	14.219
2150.0	40.975	1.34013E+05	336.03	-5.88449E+05	14.296
2200.0	41.107	1.36065E+05	336.97	-6.05274E+05	14.371
2250.0	41.225	1.38123E+05	337.90	-6.22146E+05	14.443
2300.0	41.327	1.40187E+05	338.80	-6.39064E+05	14.513
2350.0	41.416	1.42256E+05	339.69	-6.56026E+05	14.581
2400.0	41.492	1.44329E+05	340.57	-6.73033E+05	14.648
2450.0	41.556	1.46405E+05	341.42	-6.90083E+05	14.712
2500.0	41.608	1.48484E+05	342.26	-7.07175E+05	14.775
2550.0	41.649	1.50565E+05	343.09	-7.24309E+05	14.836
2600.0	41.679	1.52649E+05	343.90	-7.41484E+05	14.896
2650.0	41.699	1.54733E+05	344.69	-7.58698E+05	14.954
2700.0	41.709	1.56818E+05	345.47	-7.75952E+05	15.011
2750.0	41.710	1.58904E+05	346.24	-7.93245E+05	15.067
2800.0	41.702	1.60989E+05	346.99	-8.10576E+05	15.121
2850.0	41.685	1.63074E+05	347.73	-8.27944E+05	15.174
2900.0	41.660	1.65158E+05	348.45	-8.45348E+05	15.226
2950.0	41.626	1.67240E+05	349.16	-8.62788E+05	15.277
3000.0	41.585	1.69320E+05	349.86	-8.80264E+05	15.326

In

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.899	0.00000E+00	57.650	-17188.	3.0113
300.00	26.928	49.790	57.816	-17295.	3.0113
350.00	27.779	1416.9	62.030	-20293.	3.0286
400.00	28.741	2829.5	65.801	-23491.	3.0675
429.75	29.357	3693.6	67.884	-25480.	3.0969
429.75	29.372	6976.7	75.524	-25480.	3.0969
450.00	29.157	7569.2	76.871	-27023.	3.1366
500.00	28.729	9015.9	79.920	-30944.	3.2326
550.00	28.407	10444.	82.642	-35009.	3.3248
600.00	28.158	11858.	85.103	-39204.	3.4129
650.00	27.961	13261.	87.349	-43516.	3.4969
700.00	27.802	14654.	89.415	-47936.	3.5769
750.00	27.672	16041.	91.328	-52455.	3.6532
800.00	27.565	17422.	93.111	-57066.	3.7260
850.00	27.477	18798.	94.779	-61764.	3.7955
900.00	27.403	20170.	96.347	-66543.	3.8619
950.00	27.341	21539.	97.827	-71397.	3.9256
1000.0	27.289	22904.	99.228	-76324.	3.9867
1050.0	27.247	24268.	100.56	-81319.	4.0453
1100.0	27.212	25629.	101.83	-86379.	4.1017
1150.0	27.184	26989.	103.03	-91501.	4.1560
1200.0	27.163	28348.	104.19	-96681.	4.2083
1250.0	27.146	29705.	105.30	-1.01919E+05	4.2588
1300.0	27.135	31062.	106.36	-1.07211E+05	4.3077
1350.0	27.129	32419.	107.39	-1.12555E+05	4.3549
1400.0	27.127	33775.	108.37	-1.17949E+05	4.4006
1450.0	27.129	35132.	109.33	-1.23391E+05	4.4449
1500.0	27.136	36488.	110.25	-1.28881E+05	4.4879
1550.0	27.146	37845.	111.14	-1.34416E+05	4.5297
1600.0	27.159	39203.	112.00	-1.39994E+05	4.5702
1650.0	27.176	40561.	112.83	-1.45615E+05	4.6097
1700.0	27.197	41921.	113.65	-1.51277E+05	4.6481
1750.0	27.221	43281.	114.43	-1.56979E+05	4.6855
1800.0	27.248	44643.	115.20	-1.62720E+05	4.7219
1850.0	27.278	46006.	115.95	-1.68499E+05	4.7574
1900.0	27.311	47371.	116.68	-1.74315E+05	4.7921
1950.0	27.347	48737.	117.39	-1.80166E+05	4.8260
2000.0	27.386	50105.	118.08	-1.86053E+05	4.8591
2050.0	27.428	51476.	118.76	-1.91974E+05	4.8914
2100.0	27.473	52848.	119.42	-1.97928E+05	4.9231
2150.0	27.520	54223.	120.06	-2.03915E+05	4.9540
2200.0	27.571	55600.	120.70	-2.09935E+05	4.9844
2250.0	27.624	56980.	121.32	-2.15985E+05	5.0140
2300.0	27.680	58363.	121.93	-2.22066E+05	5.0432
2350.0	27.739	59748.	122.52	-2.28177E+05	5.0717
2400.0	27.800	61137.	123.11	-2.34318E+05	5.0997
2450.0	27.864	62528.	123.68	-2.40488E+05	5.1271
2500.0	27.931	63923.	124.24	-2.46686E+05	5.1541
2550.0	28.001	65321.	124.80	-2.52912E+05	5.1806
2600.0	28.073	66723.	125.34	-2.59165E+05	5.2066
2650.0	28.148	68129.	125.88	-2.65446E+05	5.2321
2700.0	28.225	69538.	126.40	-2.71753E+05	5.2572
2750.0	28.305	70951.	126.92	-2.78086E+05	5.2820
2800.0	28.388	72369.	127.43	-2.84445E+05	5.3063
2850.0	28.473	73790.	127.94	-2.90829E+05	5.3302
2900.0	28.561	75216.	128.43	-2.97239E+05	5.3537
2950.0	28.652	76646.	128.92	-3.03673E+05	5.3769
3000.0	28.745	78081.	129.40	-3.10131E+05	5.3997

InCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.101	-72148.	248.27	-1.46170E+05	25.608
300.00	36.122	-72081.	248.49	-1.46630E+05	25.530
350.00	36.560	-70263.	254.10	-1.59198E+05	23.758
400.00	36.850	-68428.	259.00	-1.72028E+05	22.464
450.00	37.053	-66580.	263.35	-1.85089E+05	21.484
500.00	37.203	-64723.	267.26	-1.98356E+05	20.722
550.00	37.319	-62860.	270.82	-2.11809E+05	20.115
600.00	37.412	-60992.	274.07	-2.25432E+05	19.625
650.00	37.489	-59119.	277.07	-2.39212E+05	19.223
700.00	37.554	-57243.	279.85	-2.53135E+05	18.889
750.00	37.612	-55364.	282.44	-2.67193E+05	18.609
800.00	37.663	-53482.	284.87	-2.81376E+05	18.372
850.00	37.710	-51598.	287.15	-2.95677E+05	18.170
900.00	37.754	-49711.	289.31	-3.10089E+05	17.997
950.00	37.795	-47822.	291.35	-3.24606E+05	17.848
1000.0	37.835	-45931.	293.29	-3.39223E+05	17.719
1050.0	37.874	-44039.	295.14	-3.53934E+05	17.607
1100.0	37.911	-42144.	296.90	-3.68735E+05	17.509
1150.0	37.948	-40248.	298.59	-3.83623E+05	17.424
1200.0	37.985	-38349.	300.20	-3.98593E+05	17.350
1250.0	38.022	-36449.	301.75	-4.13642E+05	17.285
1300.0	38.059	-34547.	303.25	-4.28767E+05	17.228
1350.0	38.096	-32643.	304.68	-4.43966E+05	17.178
1400.0	38.134	-30737.	306.07	-4.59235E+05	17.134
1450.0	38.171	-28830.	307.41	-4.74572E+05	17.095
1500.0	38.210	-26920.	308.70	-4.89975E+05	17.062
1550.0	38.248	-25009.	309.96	-5.05442E+05	17.033
1600.0	38.288	-23095.	311.17	-5.20970E+05	17.007
1650.0	38.328	-21180.	312.35	-5.36558E+05	16.986
1700.0	38.369	-19263.	313.50	-5.52205E+05	16.967
1750.0	38.410	-17343.	314.61	-5.67907E+05	16.951
1800.0	38.452	-15422.	315.69	-5.83665E+05	16.937
1850.0	38.495	-13498.	316.74	-5.99476E+05	16.926
1900.0	38.539	-11572.	317.77	-6.15339E+05	16.916
1950.0	38.583	-9644.0	318.77	-6.31253E+05	16.909
2000.0	38.629	-7713.7	319.75	-6.47216E+05	16.903
2050.0	38.675	-5781.2	320.71	-6.63227E+05	16.899
2100.0	38.722	-3846.3	321.64	-6.79286E+05	16.896
2150.0	38.770	-1909.0	322.55	-6.95391E+05	16.894
2200.0	38.818	30.711	323.44	-7.11541E+05	16.894
2250.0	38.868	1972.9	324.31	-7.27735E+05	16.894
2300.0	38.918	3917.5	325.17	-7.43972E+05	16.896
2350.0	38.970	5864.7	326.01	-7.60251E+05	16.898
2400.0	39.022	7814.5	326.83	-7.76572E+05	16.901
2450.0	39.075	9766.9	327.63	-7.92934E+05	16.905
2500.0	39.129	11722.	328.42	-8.09335E+05	16.910
2550.0	39.184	13680.	329.20	-8.25776E+05	16.915
2600.0	39.240	15640.	329.96	-8.42255E+05	16.921
2650.0	39.297	17604.	330.71	-8.58772E+05	16.927
2700.0	39.355	19570.	331.44	-8.75325E+05	16.934
2750.0	39.413	21539.	332.17	-8.91916E+05	16.941
2800.0	39.473	23512.	332.88	-9.08542E+05	16.949
2850.0	39.533	25487.	333.58	-9.25203E+05	16.957
2900.0	39.595	27465.	334.26	-9.41899E+05	16.965
2950.0	39.657	29446.	334.94	-9.58629E+05	16.974
3000.0	39.721	31431.	335.61	-9.75393E+05	16.983

InCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.839	-2.01484E+05	314.20	-2.95164E+05	51.710
300.00	54.879	-2.01383E+05	314.54	-2.95745E+05	51.493
350.00	55.727	-1.98616E+05	323.07	-3.11690E+05	46.516
400.00	56.276	-1.95815E+05	330.55	-3.28035E+05	42.836
450.00	56.651	-1.92991E+05	337.20	-3.44732E+05	40.014
500.00	56.919	-1.90151E+05	343.19	-3.61744E+05	37.790
550.00	57.117	-1.87300E+05	348.62	-3.79041E+05	35.997
600.00	57.268	-1.84441E+05	353.60	-3.96598E+05	34.526
650.00	57.386	-1.81574E+05	358.18	-4.14394E+05	33.300
700.00	57.482	-1.78702E+05	362.44	-4.32411E+05	32.266
750.00	57.560	-1.75826E+05	366.41	-4.50634E+05	31.384
800.00	57.626	-1.72946E+05	370.13	-4.69048E+05	30.625
850.00	57.682	-1.70064E+05	373.62	-4.87643E+05	29.966
900.00	57.732	-1.67178E+05	376.92	-5.06407E+05	29.390
950.00	57.776	-1.64291E+05	380.04	-5.25332E+05	28.884
1000.0	57.817	-1.61401E+05	383.01	-5.44409E+05	28.436
1050.0	57.854	-1.58509E+05	385.83	-5.63630E+05	28.038
1100.0	57.890	-1.55615E+05	388.52	-5.82990E+05	27.683
1150.0	57.923	-1.52720E+05	391.10	-6.02480E+05	27.365
1200.0	57.956	-1.49823E+05	393.56	-6.22097E+05	27.079
1250.0	57.988	-1.46924E+05	395.93	-6.41835E+05	26.820
1300.0	58.020	-1.44024E+05	398.20	-6.61689E+05	26.586
1350.0	58.051	-1.41122E+05	400.39	-6.81654E+05	26.374
1400.0	58.083	-1.38219E+05	402.51	-7.01727E+05	26.181
1450.0	58.115	-1.35314E+05	404.54	-7.21903E+05	26.005
1500.0	58.147	-1.32408E+05	406.51	-7.42180E+05	25.844
1550.0	58.180	-1.29499E+05	408.42	-7.62554E+05	25.697
1600.0	58.214	-1.26590E+05	410.27	-7.83021E+05	25.562
1650.0	58.249	-1.23678E+05	412.06	-8.03580E+05	25.439
1700.0	58.284	-1.20765E+05	413.80	-8.24227E+05	25.325
1750.0	58.320	-1.17850E+05	415.49	-8.44959E+05	25.220
1800.0	58.357	-1.14933E+05	417.13	-8.65775E+05	25.123
1850.0	58.395	-1.12014E+05	418.73	-8.86672E+05	25.034
1900.0	58.435	-1.09093E+05	420.29	-9.07648E+05	24.952
1950.0	58.475	-1.06170E+05	421.81	-9.28700E+05	24.876
2000.0	58.517	-1.03246E+05	423.29	-9.49828E+05	24.806
2050.0	58.559	-1.00319E+05	424.74	-9.71029E+05	24.741
2100.0	58.603	-97390.	426.15	-9.92301E+05	24.682
2150.0	58.648	-94458.	427.53	-1.01364E+06	24.626
2200.0	58.694	-91525.	428.88	-1.03505E+06	24.575
2250.0	58.742	-88589.	430.20	-1.05653E+06	24.527
2300.0	58.791	-85651.	431.49	-1.07807E+06	24.483
2350.0	58.841	-82710.	432.75	-1.09968E+06	24.442
2400.0	58.892	-79766.	433.99	-1.12135E+06	24.405
2450.0	58.945	-76821.	435.21	-1.14308E+06	24.370
2500.0	58.999	-73872.	436.40	-1.16487E+06	24.338
2550.0	59.054	-70921.	437.57	-1.18672E+06	24.308
2600.0	59.111	-67966.	438.71	-1.20862E+06	24.281
2650.0	59.169	-65010.	439.84	-1.23059E+06	24.256
2700.0	59.228	-62050.	440.95	-1.25261E+06	24.233
2750.0	59.289	-59087.	442.03	-1.27468E+06	24.211
2800.0	59.351	-56121.	443.10	-1.29681E+06	24.192
2850.0	59.414	-53152.	444.15	-1.31899E+06	24.174
2900.0	59.479	-50179.	445.19	-1.34123E+06	24.157
2950.0	59.545	-47204.	446.21	-1.36351E+06	24.143
3000.0	59.613	-44225.	447.21	-1.38585E+06	24.129

InBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.812	-54116.	259.61	-1.31520E+05	23.041
300.00	36.823	-54048.	259.84	-1.32000E+05	22.983
350.00	37.065	-52200.	265.54	-1.45138E+05	21.660
400.00	37.228	-50343.	270.50	-1.58542E+05	20.703
450.00	37.347	-48478.	274.89	-1.72179E+05	19.985
500.00	37.438	-46608.	278.83	-1.86023E+05	19.433
550.00	37.512	-44735.	282.40	-2.00056E+05	18.999
600.00	37.574	-42857.	285.67	-2.14259E+05	18.652
650.00	37.628	-40977.	288.68	-2.28618E+05	18.372
700.00	37.676	-39095.	291.47	-2.43123E+05	18.142
750.00	37.720	-37210.	294.07	-2.57762E+05	17.952
800.00	37.762	-35323.	296.51	-2.72527E+05	17.794
850.00	37.802	-33434.	298.80	-2.87410E+05	17.662
900.00	37.841	-31543.	300.96	-3.02404E+05	17.551
950.00	37.878	-29650.	303.00	-3.17504E+05	17.457
1000.0	37.916	-27755.	304.95	-3.32703E+05	17.378
1050.0	37.953	-25858.	306.80	-3.47997E+05	17.311
1100.0	37.990	-23960.	308.57	-3.63382E+05	17.255
1150.0	38.027	-22059.	310.26	-3.78852E+05	17.208
1200.0	38.064	-20157.	311.87	-3.94406E+05	17.168
1250.0	38.102	-18253.	313.43	-4.10039E+05	17.134
1300.0	38.140	-16347.	314.92	-4.25748E+05	17.106
1350.0	38.179	-14439.	316.36	-4.41530E+05	17.083
1400.0	38.218	-12529.	317.75	-4.57383E+05	17.065
1450.0	38.258	-10617.	319.10	-4.73305E+05	17.050
1500.0	38.299	-8702.9	320.39	-4.89292E+05	17.038
1550.0	38.341	-6786.9	321.65	-5.05343E+05	17.030
1600.0	38.383	-4868.8	322.87	-5.21456E+05	17.023
1650.0	38.425	-2948.6	324.05	-5.37629E+05	17.019
1700.0	38.469	-1026.2	325.20	-5.53861E+05	17.018
1750.0	38.514	898.33	326.31	-5.70149E+05	17.018
1800.0	38.559	2825.1	327.40	-5.86492E+05	17.019
1850.0	38.605	4754.2	328.46	-6.02888E+05	17.022
1900.0	38.652	6685.6	329.49	-6.19337E+05	17.026
1950.0	38.699	8619.4	330.49	-6.35836E+05	17.032
2000.0	38.748	10556.	331.47	-6.52385E+05	17.038
2050.0	38.797	12494.	332.43	-6.68983E+05	17.045
2100.0	38.848	14435.	333.36	-6.85628E+05	17.054
2150.0	38.899	16379.	334.28	-7.02319E+05	17.063
2200.0	38.951	18325.	335.17	-7.19055E+05	17.072
2250.0	39.004	20274.	336.05	-7.35836E+05	17.082
2300.0	39.057	22226.	336.91	-7.52660E+05	17.093
2350.0	39.112	24180.	337.75	-7.69526E+05	17.104
2400.0	39.168	26137.	338.57	-7.86434E+05	17.116
2450.0	39.224	28097.	339.38	-8.03383E+05	17.128
2500.0	39.281	30059.	340.17	-8.20372E+05	17.140
2550.0	39.340	32025.	340.95	-8.37400E+05	17.153
2600.0	39.399	33993.	341.72	-8.54467E+05	17.166
2650.0	39.459	35965.	342.47	-8.71571E+05	17.179
2700.0	39.520	37939.	343.20	-8.88713E+05	17.193
2750.0	39.581	39917.	343.93	-9.05891E+05	17.206
2800.0	39.644	41897.	344.64	-9.23106E+05	17.220
2850.0	39.708	43881.	345.35	-9.40356E+05	17.234
2900.0	39.772	45868.	346.04	-9.57640E+05	17.249
2950.0	39.838	47858.	346.72	-9.74959E+05	17.263
3000.0	39.904	49852.	347.39	-9.92312E+05	17.277

InBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.871	-2.56588E+05	373.47	-3.67938E+05	64.460
300.00	79.911	-2.56440E+05	373.97	-3.68630E+05	64.183
350.00	80.758	-2.52422E+05	386.35	-3.87645E+05	57.851
400.00	81.309	-2.48369E+05	397.17	-4.07239E+05	53.179
450.00	81.687	-2.44294E+05	406.77	-4.27342E+05	49.603
500.00	81.957	-2.40202E+05	415.40	-4.47900E+05	46.791
550.00	82.158	-2.36099E+05	423.22	-4.68868E+05	44.528
600.00	82.310	-2.31987E+05	430.37	-4.90211E+05	42.676
650.00	82.429	-2.27869E+05	436.97	-5.11896E+05	41.135
700.00	82.524	-2.23745E+05	443.08	-5.33899E+05	39.839
750.00	82.601	-2.19617E+05	448.77	-5.56197E+05	38.736
800.00	82.663	-2.15485E+05	454.11	-5.78771E+05	37.789
850.00	82.716	-2.11351E+05	459.12	-6.01603E+05	36.969
900.00	82.760	-2.07214E+05	463.85	-6.24678E+05	36.254
950.00	82.797	-2.03075E+05	468.32	-6.47983E+05	35.628
1000.0	82.829	-1.98934E+05	472.57	-6.71507E+05	35.075
1050.0	82.857	-1.94792E+05	476.61	-6.95237E+05	34.585
1100.0	82.881	-1.90648E+05	480.47	-7.19165E+05	34.149
1150.0	82.902	-1.86504E+05	484.15	-7.43281E+05	33.760
1200.0	82.920	-1.82358E+05	487.68	-7.67578E+05	33.411
1250.0	82.937	-1.78212E+05	491.07	-7.92047E+05	33.097
1300.0	82.952	-1.74065E+05	494.32	-8.16682E+05	32.814
1350.0	82.965	-1.69917E+05	497.45	-8.41477E+05	32.558
1400.0	82.977	-1.65768E+05	500.47	-8.66426E+05	32.326
1450.0	82.988	-1.61619E+05	503.38	-8.91522E+05	32.115
1500.0	82.997	-1.57469E+05	506.20	-9.16762E+05	31.924
1550.0	83.006	-1.53319E+05	508.92	-9.42140E+05	31.749
1600.0	83.014	-1.49169E+05	511.55	-9.67652E+05	31.590
1650.0	83.022	-1.45018E+05	514.11	-9.93294E+05	31.444
1700.0	83.029	-1.40867E+05	516.59	-1.01906E+06	31.311
1750.0	83.035	-1.36715E+05	518.99	-1.04495E+06	31.189
1800.0	83.041	-1.32563E+05	521.33	-1.07096E+06	31.078
1850.0	83.047	-1.28411E+05	523.61	-1.09708E+06	30.975
1900.0	83.052	-1.24258E+05	525.82	-1.12332E+06	30.881
1950.0	83.056	-1.20106E+05	527.98	-1.14966E+06	30.795
2000.0	83.061	-1.15953E+05	530.08	-1.17612E+06	30.716
2050.0	83.065	-1.11800E+05	532.13	-1.20267E+06	30.644
2100.0	83.069	-1.07646E+05	534.13	-1.22933E+06	30.577
2150.0	83.072	-1.03493E+05	536.09	-1.25608E+06	30.516
2200.0	83.076	-99339.	538.00	-1.28294E+06	30.460
2250.0	83.079	-95185.	539.87	-1.30988E+06	30.409
2300.0	83.082	-91031.	541.69	-1.33692E+06	30.362
2350.0	83.085	-86877.	543.48	-1.36405E+06	30.319
2400.0	83.087	-82723.	545.23	-1.39127E+06	30.279
2450.0	83.090	-78568.	546.94	-1.41858E+06	30.244
2500.0	83.092	-74414.	548.62	-1.44596E+06	30.211
2550.0	83.095	-70259.	550.27	-1.47344E+06	30.181
2600.0	83.097	-66104.	551.88	-1.50099E+06	30.155
2650.0	83.099	-61949.	553.46	-1.52862E+06	30.130
2700.0	83.101	-57794.	555.02	-1.55634E+06	30.108
2750.0	83.103	-53639.	556.54	-1.58412E+06	30.089
2800.0	83.105	-49484.	558.04	-1.61199E+06	30.071
2850.0	83.106	-45329.	559.51	-1.63993E+06	30.056
2900.0	83.108	-41173.	560.95	-1.66794E+06	30.042
2950.0	83.109	-37018.	562.37	-1.69602E+06	30.030
3000.0	83.111	-32863.	563.77	-1.72418E+06	30.020

Ir

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.090	0.00000E+00	35.505	-10586.	1.8545
300.00	25.096	46.422	35.660	-10652.	1.8546
350.00	25.287	1305.8	39.542	-12534.	1.8706
400.00	25.519	2575.8	42.934	-14598.	1.9062
450.00	25.776	3858.1	45.954	-16821.	1.9525
500.00	26.047	5153.6	48.684	-19188.	2.0045
550.00	26.328	6462.9	51.179	-21686.	2.0595
600.00	26.616	7786.5	53.483	-24303.	2.1157
650.00	26.909	9124.6	55.625	-27031.	2.1722
700.00	27.205	10477.	57.630	-29863.	2.2284
750.00	27.504	11845.	59.517	-32792.	2.2838
800.00	27.804	13228.	61.301	-35813.	2.3383
850.00	28.106	14626.	62.996	-38921.	2.3917
900.00	28.410	16039.	64.611	-42112.	2.4440
950.00	28.714	17467.	66.155	-45381.	2.4952
1000.0	29.019	18910.	67.636	-48726.	2.5451
1050.0	29.324	20369.	69.059	-52144.	2.5939
1100.0	29.630	21842.	70.430	-55631.	2.6416
1150.0	29.936	23332.	71.754	-59186.	2.6882
1200.0	30.243	24836.	73.035	-62806.	2.7338
1250.0	30.582	26356.	74.276	-66489.	2.7783
1300.0	30.949	27895.	75.483	-70233.	2.8219
1350.0	31.330	29451.	76.658	-74036.	2.8646
1400.0	31.726	31028.	77.804	-77898.	2.9063
1450.0	32.136	32624.	78.925	-81816.	2.9473
1500.0	32.561	34242.	80.021	-85790.	2.9874
1550.0	33.000	35881.	81.096	-89818.	3.0268
1600.0	33.453	37542.	82.151	-93899.	3.0654
1650.0	33.921	39226.	83.187	-98033.	3.1034
1700.0	34.403	40934.	84.207	-1.02218E+05	3.1407
1750.0	34.899	42667.	85.211	-1.06453E+05	3.1774
1800.0	35.410	44424.	86.202	-1.10739E+05	3.2135
1850.0	35.935	46208.	87.179	-1.15073E+05	3.2490
1900.0	36.475	48018.	88.145	-1.19456E+05	3.2840
1950.0	37.029	49856.	89.099	-1.23888E+05	3.3185
2000.0	37.598	51721.	90.044	-1.28366E+05	3.3525
2050.0	38.180	53616.	90.979	-1.32892E+05	3.3860
2100.0	38.778	55540.	91.906	-1.37464E+05	3.4191
2150.0	39.389	57494.	92.826	-1.42082E+05	3.4518
2200.0	40.015	59479.	93.739	-1.46746E+05	3.4841
2250.0	40.656	61495.	94.645	-1.51456E+05	3.5160
2300.0	41.310	63545.	95.546	-1.56211E+05	3.5476
2350.0	41.980	65627.	96.441	-1.61011E+05	3.5788
2400.0	42.663	67743.	97.332	-1.65855E+05	3.6096
2450.0	43.361	69893.	98.219	-1.70744E+05	3.6402
2500.0	44.073	72079.	99.102	-1.75677E+05	3.6705
2550.0	44.800	74301.	99.982	-1.80654E+05	3.7005
2600.0	45.541	76559.	100.86	-1.85675E+05	3.7302
2650.0	46.297	78855.	101.73	-1.90740E+05	3.7596
2700.0	47.067	81189.	102.61	-1.95848E+05	3.7888
2719.0	47.363	82086.	102.94	-1.97801E+05	3.7999
2719.0	59.418	1.23210E+05	118.06	-1.97801E+05	3.7999
2750.0	59.418	1.25052E+05	118.74	-2.01471E+05	3.8267
2800.0	59.418	1.28023E+05	119.81	-2.07435E+05	3.8697
2850.0	59.418	1.30994E+05	120.86	-2.13452E+05	3.9120
2900.0	59.418	1.33965E+05	121.89	-2.19521E+05	3.9539
2950.0	59.418	1.36936E+05	122.91	-2.25641E+05	3.9952
3000.0	59.418	1.39907E+05	123.91	-2.31811E+05	4.0361

IrBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	105.31	-1.76639E+05	129.57	-2.15270E+05	37.714
300.00	105.34	-1.76444E+05	130.22	-2.15511E+05	37.523
350.00	106.36	-1.71151E+05	146.54	-2.22439E+05	33.196
400.00	107.38	-1.65808E+05	160.81	-2.30130E+05	30.051
450.00	108.39	-1.60414E+05	173.51	-2.38494E+05	27.683
500.00	109.41	-1.54969E+05	184.98	-2.47461E+05	25.851
550.00	110.43	-1.49473E+05	195.46	-2.56976E+05	24.405
600.00	111.44	-1.43926E+05	205.11	-2.66993E+05	23.243
650.00	112.46	-1.38328E+05	214.07	-2.77476E+05	22.298
700.00	113.48	-1.32680E+05	222.44	-2.88391E+05	21.519
750.00	114.50	-1.26980E+05	230.31	-2.99712E+05	20.873
800.00	115.51	-1.21230E+05	237.73	-3.11414E+05	20.333
850.00	116.53	-1.15429E+05	244.76	-3.23478E+05	19.878
900.00	117.55	-1.09577E+05	251.45	-3.35885E+05	19.494
950.00	118.56	-1.03674E+05	257.84	-3.48619E+05	19.168
1000.0	119.58	-97721.	263.94	-3.61664E+05	18.891

K

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.704	0.00000E+00	64.680	-19284.	3.3785
300.00	29.794	55.036	64.864	-19404.	3.3785
336.86	32.100	1192.7	68.438	-21861.	3.3898
336.86	32.129	3513.5	75.328	-21861.	3.3898
350.00	32.009	3934.9	76.555	-22859.	3.4115
400.00	31.552	5523.8	80.799	-26796.	3.4991
450.00	31.123	7090.5	84.490	-30930.	3.5902
500.00	30.741	8636.9	87.749	-35238.	3.6812
550.00	30.417	10166.	90.663	-39699.	3.7702
600.00	30.158	11680.	93.298	-44299.	3.8565
650.00	29.968	13183.	95.704	-49025.	3.9396
700.00	29.851	14678.	97.920	-53867.	4.0195
750.00	29.807	16169.	99.978	-58815.	4.0961
800.00	29.838	17660.	101.90	-63862.	4.1697
850.00	29.945	19154.	103.71	-69003.	4.2403
900.00	30.130	20656.	105.43	-74232.	4.3082
950.00	30.391	22168.	107.07	-79545.	4.3736
1000.0	30.731	23696.	108.63	-84937.	4.4366
1050.0	31.148	25243.	110.14	-90407.	4.4974
1100.0	31.643	26812.	111.60	-95951.	4.5562
1150.0	32.217	28408.	113.02	-1.01567E+05	4.6132
1200.0	32.870	30035.	114.41	-1.07252E+05	4.6685
1250.0	33.601	31697.	115.76	-1.13007E+05	4.7222
1300.0	34.411	33397.	117.10	-1.18828E+05	4.7745
1350.0	35.300	35139.	118.41	-1.24716E+05	4.8254
1400.0	36.268	36928.	119.71	-1.30669E+05	4.8752
1450.0	37.314	38767.	121.00	-1.36687E+05	4.9239
1500.0	38.440	40661.	122.29	-1.42769E+05	4.9715
1550.0	39.645	42612.	123.57	-1.48916E+05	5.0183
1600.0	40.929	44626.	124.85	-1.55126E+05	5.0642
1650.0	42.292	46707.	126.13	-1.61400E+05	5.1094
1700.0	43.734	48857.	127.41	-1.67739E+05	5.1539
1750.0	45.256	51081.	128.70	-1.74141E+05	5.1977
1800.0	46.856	53384.	130.00	-1.80609E+05	5.2410
1850.0	48.536	55768.	131.30	-1.87141E+05	5.2838
1900.0	50.295	58239.	132.62	-1.93739E+05	5.3261
1950.0	52.133	60799.	133.95	-2.00403E+05	5.3681
2000.0	54.050	63453.	135.29	-2.07134E+05	5.4097

K<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.774	89000.	160.34	41195.	-7.2170
300.00	20.775	89038.	160.47	40898.	-7.1208
350.00	20.803	90078.	163.67	32793.	-4.8939
400.00	20.814	91118.	166.45	24538.	-3.2043
450.00	20.817	92159.	168.90	16153.	-1.8749
500.00	20.814	93200.	171.10	7652.0	-0.79938
550.00	20.809	94241.	173.08	-953.17	9.0E-02
600.00	20.802	95281.	174.89	-9653.1	0.84035
650.00	20.795	96321.	176.55	-18440.	1.4818
700.00	20.788	97360.	178.10	-27307.	2.0376
750.00	20.781	98400.	179.53	-36248.	2.5244
800.00	20.775	99439.	180.87	-45258.	2.9550
850.00	20.769	1.00477E+05	182.13	-54333.	3.3388
900.00	20.765	1.01516E+05	183.32	-63470.	3.6836
950.00	20.762	1.02554E+05	184.44	-72664.	3.9952
1000.0	20.759	1.03592E+05	185.50	-81913.	4.2786
1050.0	20.758	1.04630E+05	186.52	-91213.	4.5375
1100.0	20.759	1.05668E+05	187.48	-1.00564E+05	4.7752
1150.0	20.760	1.06706E+05	188.41	-1.09961E+05	4.9945
1200.0	20.763	1.07744E+05	189.29	-1.19404E+05	5.1974
1250.0	20.767	1.08782E+05	190.14	-1.28889E+05	5.3859
1300.0	20.773	1.09820E+05	190.95	-1.38417E+05	5.5615
1350.0	20.780	1.10859E+05	191.74	-1.47984E+05	5.7257
1400.0	20.788	1.11898E+05	192.49	-1.57590E+05	5.8796
1450.0	20.798	1.12938E+05	193.22	-1.67233E+05	6.0242
1500.0	20.809	1.13978E+05	193.93	-1.76912E+05	6.1605
1550.0	20.821	1.15019E+05	194.61	-1.86625E+05	6.2891
1600.0	20.835	1.16060E+05	195.27	-1.96372E+05	6.4107
1650.0	20.851	1.17102E+05	195.91	-2.06152E+05	6.5261
1700.0	20.867	1.18145E+05	196.53	-2.15963E+05	6.6356
1750.0	20.886	1.19189E+05	197.14	-2.25805E+05	6.7397
1800.0	20.905	1.20234E+05	197.73	-2.35677E+05	6.8390
1850.0	20.926	1.21280E+05	198.30	-2.45577E+05	6.9337
1900.0	20.949	1.22327E+05	198.86	-2.55507E+05	7.0242
1950.0	20.973	1.23375E+05	199.40	-2.65463E+05	7.1108
2000.0	20.998	1.24424E+05	199.94	-2.75447E+05	7.1937
2050.0	21.025	1.25475E+05	200.45	-2.85456E+05	7.2733
2100.0	21.055	1.26527E+05	200.96	-2.95492E+05	7.3498
2150.0	21.085	1.27580E+05	201.46	-3.05552E+05	7.4233
2200.0	21.126	1.28635E+05	201.94	-3.15637E+05	7.4940
2250.0	21.176	1.29693E+05	202.42	-3.25746E+05	7.5621
2300.0	21.236	1.30753E+05	202.88	-3.35879E+05	7.6279
2350.0	21.304	1.31816E+05	203.34	-3.46035E+05	7.6913
2400.0	21.381	1.32884E+05	203.79	-3.56213E+05	7.7526
2450.0	21.466	1.33955E+05	204.23	-3.66414E+05	7.8118
2500.0	21.558	1.35030E+05	204.67	-3.76636E+05	7.8692
2550.0	21.658	1.36111E+05	205.09	-3.86880E+05	7.9247
2600.0	21.765	1.37196E+05	205.52	-3.97145E+05	7.9785
2650.0	21.879	1.38287E+05	205.93	-4.07432E+05	8.0308
2700.0	21.999	1.39384E+05	206.34	-4.17738E+05	8.0814
2750.0	22.125	1.40487E+05	206.75	-4.28066E+05	8.1307
2800.0	22.258	1.41597E+05	207.15	-4.38413E+05	8.1785
2850.0	22.396	1.42713E+05	207.54	-4.48780E+05	8.2250
2900.0	22.540	1.43836E+05	207.93	-4.59167E+05	8.2703
2950.0	22.690	1.44967E+05	208.32	-4.69573E+05	8.3144
3000.0	22.846	1.46106E+05	208.70	-4.79999E+05	8.3573

K2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.981	1.26547E+05	249.76	52082.	-9.1243
300.00	37.985	1.26617E+05	249.99	51620.	-8.9876
350.00	38.164	1.28521E+05	255.86	38970.	-5.8158
400.00	38.398	1.30435E+05	260.97	26046.	-3.4012
450.00	38.629	1.32360E+05	265.51	12882.	-1.4953
500.00	38.825	1.34297E+05	269.59	-496.86	5.1E-02
550.00	38.969	1.36242E+05	273.30	-14070.	1.3363
600.00	39.051	1.38193E+05	276.69	-27821.	2.4220
650.00	39.064	1.40146E+05	279.82	-41735.	3.3538
700.00	39.004	1.42098E+05	282.71	-55799.	4.1637
750.00	38.868	1.44045E+05	285.40	-70002.	4.8753
800.00	38.653	1.45983E+05	287.90	-84336.	5.5064
850.00	38.359	1.47909E+05	290.23	-98790.	6.0707
900.00	37.982	1.49818E+05	292.42	-1.13356E+05	6.5789
950.00	37.581	1.51707E+05	294.46	-1.28029E+05	7.0393
1000.0	37.102	1.53575E+05	296.37	-1.42800E+05	7.4589
1050.0	36.574	1.55417E+05	298.17	-1.57664E+05	7.8432
1100.0	36.019	1.57232E+05	299.86	-1.72616E+05	8.1966
1150.0	35.455	1.59019E+05	301.45	-1.87649E+05	8.5231
1200.0	34.897	1.60777E+05	302.95	-2.02759E+05	8.8256
1250.0	34.356	1.62509E+05	304.36	-2.17942E+05	9.1071
1300.0	33.841	1.64213E+05	305.70	-2.33194E+05	9.3696
1350.0	33.360	1.65893E+05	306.97	-2.48511E+05	9.6152
1400.0	32.920	1.67550E+05	308.17	-2.63889E+05	9.8456
1450.0	32.525	1.69186E+05	309.32	-2.79327E+05	10.062
1500.0	32.180	1.70803E+05	310.42	-2.94820E+05	10.266
1550.0	31.889	1.72405E+05	311.47	-3.10368E+05	10.459
1600.0	31.655	1.73993E+05	312.47	-3.25966E+05	10.641
1650.0	31.480	1.75571E+05	313.45	-3.41614E+05	10.814
1700.0	31.366	1.77142E+05	314.38	-3.57310E+05	10.979
1750.0	31.316	1.78709E+05	315.29	-3.73052E+05	11.135
1800.0	31.332	1.80275E+05	316.17	-3.88839E+05	11.284
1850.0	31.414	1.81843E+05	317.03	-4.04669E+05	11.426
1900.0	31.564	1.83417E+05	317.87	-4.20542E+05	11.561
1950.0	31.783	1.85001E+05	318.70	-4.36456E+05	11.691
2000.0	32.072	1.86597E+05	319.50	-4.52412E+05	11.815
2050.0	32.432	1.88209E+05	320.30	-4.68407E+05	11.935
2100.0	32.864	1.89841E+05	321.09	-4.84441E+05	12.050
2150.0	33.368	1.91497E+05	321.87	-5.00515E+05	12.160
2200.0	33.947	1.93179E+05	322.64	-5.16628E+05	12.266
2250.0	34.531	1.94891E+05	323.41	-5.32779E+05	12.368
2300.0	35.210	1.96634E+05	324.18	-5.48969E+05	12.467
2350.0	35.968	1.98413E+05	324.94	-5.65197E+05	12.563
2400.0	36.791	2.00232E+05	325.71	-5.81463E+05	12.655
2450.0	37.667	2.02093E+05	326.47	-5.97767E+05	12.744
2500.0	38.585	2.03999E+05	327.24	-6.14110E+05	12.831
2550.0	39.533	2.05952E+05	328.02	-6.30492E+05	12.915
2600.0	40.503	2.07953E+05	328.79	-6.46912E+05	12.996
2650.0	41.487	2.10003E+05	329.58	-6.63371E+05	13.076
2700.0	42.477	2.12102E+05	330.36	-6.79870E+05	13.153
2750.0	43.465	2.14250E+05	331.15	-6.96407E+05	13.228
2800.0	44.446	2.16448E+05	331.94	-7.12985E+05	13.301
2850.0	45.414	2.18695E+05	332.74	-7.29601E+05	13.372
2900.0	46.364	2.20989E+05	333.53	-7.46258E+05	13.441
2950.0	47.290	2.23331E+05	334.33	-7.62955E+05	13.509
3000.0	48.188	2.25718E+05	335.14	-7.79692E+05	13.575

KCl

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	51.287	-4.36684E+05	82.555	-4.61298E+05	80.815
300.00	51.327	-4.36589E+05	82.872	-4.61451E+05	80.344
350.00	52.292	-4.33998E+05	90.859	-4.65799E+05	69.515
400.00	53.145	-4.31362E+05	97.898	-4.70521E+05	61.442
450.00	53.949	-4.28684E+05	104.20	-4.75576E+05	55.202
500.00	54.736	-4.25967E+05	109.93	-4.80932E+05	50.241
550.00	55.526	-4.23211E+05	115.18	-4.86561E+05	46.209
600.00	56.330	-4.20414E+05	120.05	-4.92444E+05	42.870
650.00	57.154	-4.17577E+05	124.59	-4.98561E+05	40.064
700.00	58.003	-4.14699E+05	128.86	-5.04898E+05	37.675
750.00	58.987	-4.11774E+05	132.89	-5.11443E+05	35.619
800.00	60.078	-4.08798E+05	136.73	-5.18184E+05	33.833
850.00	61.364	-4.05763E+05	140.41	-5.25113E+05	32.269
900.00	62.911	-4.02657E+05	143.96	-5.32223E+05	30.889
950.00	64.767	-3.99467E+05	147.41	-5.39508E+05	29.663
1000.0	66.969	-3.96175E+05	150.79	-5.46963E+05	28.570
1044.0	69.216	-3.93180E+05	153.72	-5.53662E+05	27.701
1044.0	73.597	-3.66896E+05	178.89	-5.53662E+05	27.701
1050.0	73.597	-3.66454E+05	179.32	-5.54737E+05	27.596
1100.0	73.597	-3.62775E+05	182.74	-5.63789E+05	26.771
1150.0	73.597	-3.59095E+05	186.01	-5.73008E+05	26.026
1200.0	73.597	-3.55415E+05	189.14	-5.82388E+05	25.350
1250.0	73.597	-3.51735E+05	192.15	-5.91921E+05	24.734
1300.0	73.597	-3.48055E+05	195.03	-6.01601E+05	24.172
1350.0	73.597	-3.44375E+05	197.81	-6.11422E+05	23.657
1400.0	73.597	-3.40696E+05	200.49	-6.21380E+05	23.183
1450.0	73.597	-3.37016E+05	203.07	-6.31470E+05	22.747
1500.0	73.597	-3.33336E+05	205.57	-6.41686E+05	22.345
1550.0	73.597	-3.29656E+05	207.98	-6.52025E+05	21.973
1600.0	73.597	-3.25976E+05	210.32	-6.62483E+05	21.627
1650.0	73.597	-3.22297E+05	212.58	-6.73055E+05	21.307
1700.0	73.597	-3.18617E+05	214.78	-6.83740E+05	21.008
1750.0	73.597	-3.14937E+05	216.91	-6.94532E+05	20.730
1800.0	73.597	-3.11257E+05	218.98	-7.05430E+05	20.471
1850.0	73.597	-3.07577E+05	221.00	-7.16430E+05	20.228
1900.0	73.597	-3.03897E+05	222.96	-7.27529E+05	20.001
1950.0	73.597	-3.00218E+05	224.88	-7.38725E+05	19.788
2000.0	73.597	-2.96538E+05	226.74	-7.50016E+05	19.588

KCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.466	-2.14575E+05	239.09	-2.85860E+05	50.080
300.00	36.484	-2.14508E+05	239.32	-2.86303E+05	49.848
350.00	36.873	-2.12673E+05	244.97	-2.98413E+05	44.535
400.00	37.132	-2.10822E+05	249.91	-3.10788E+05	40.584
450.00	37.317	-2.08961E+05	254.30	-3.23395E+05	37.538
500.00	37.456	-2.07091E+05	258.24	-3.36210E+05	35.123
550.00	37.567	-2.05216E+05	261.81	-3.49213E+05	33.165
600.00	37.658	-2.03335E+05	265.09	-3.62387E+05	31.548
650.00	37.737	-2.01450E+05	268.10	-3.75717E+05	30.192
700.00	37.806	-1.99562E+05	270.90	-3.89193E+05	29.041
750.00	37.869	-1.97670E+05	273.51	-4.02804E+05	28.053
800.00	37.928	-1.95775E+05	275.96	-4.16542E+05	27.197
850.00	37.985	-1.93877E+05	278.26	-4.30398E+05	26.448
900.00	38.039	-1.91976E+05	280.43	-4.44366E+05	25.790
950.00	38.092	-1.90073E+05	282.49	-4.58439E+05	25.206
1000.0	38.145	-1.88167E+05	284.45	-4.72613E+05	24.686
1050.0	38.197	-1.86259E+05	286.31	-4.86882E+05	24.220
1100.0	38.250	-1.84347E+05	288.09	-5.01242E+05	23.801
1150.0	38.304	-1.82434E+05	289.79	-5.15690E+05	23.423
1200.0	38.358	-1.80517E+05	291.42	-5.30220E+05	23.079
1250.0	38.413	-1.78598E+05	292.99	-5.44830E+05	22.767
1300.0	38.469	-1.76676E+05	294.49	-5.59518E+05	22.481
1350.0	38.526	-1.74751E+05	295.95	-5.74279E+05	22.220
1400.0	38.584	-1.72823E+05	297.35	-5.89112E+05	21.979
1450.0	38.644	-1.70892E+05	298.70	-6.04013E+05	21.758
1500.0	38.705	-1.68959E+05	300.01	-6.18981E+05	21.554
1550.0	38.767	-1.67022E+05	301.29	-6.34014E+05	21.366
1600.0	38.831	-1.65082E+05	302.52	-6.49109E+05	21.191
1650.0	38.897	-1.63139E+05	303.71	-6.64265E+05	21.028
1700.0	38.964	-1.61192E+05	304.88	-6.79480E+05	20.877
1750.0	39.032	-1.59242E+05	306.01	-6.94752E+05	20.737
1800.0	39.102	-1.57289E+05	307.11	-7.10080E+05	20.605
1850.0	39.174	-1.55332E+05	308.18	-7.25462E+05	20.483
1900.0	39.248	-1.53372E+05	309.22	-7.40897E+05	20.368
1950.0	39.323	-1.51407E+05	310.24	-7.56384E+05	20.261
2000.0	39.399	-1.49439E+05	311.24	-7.71921E+05	20.160
2050.0	39.478	-1.47467E+05	312.21	-7.87508E+05	20.065
2100.0	39.558	-1.45491E+05	313.17	-8.03142E+05	19.977
2150.0	39.640	-1.43512E+05	314.10	-8.18824E+05	19.893
2200.0	39.723	-1.41527E+05	315.01	-8.34552E+05	19.814
2250.0	39.809	-1.39539E+05	315.90	-8.50325E+05	19.740
2300.0	39.896	-1.37547E+05	316.78	-8.66142E+05	19.670
2350.0	39.984	-1.35550E+05	317.64	-8.82003E+05	19.604
2400.0	40.075	-1.33548E+05	318.48	-8.97906E+05	19.542
2450.0	40.167	-1.31542E+05	319.31	-9.13851E+05	19.483
2500.0	40.261	-1.29531E+05	320.12	-9.29837E+05	19.427
2550.0	40.357	-1.27516E+05	320.92	-9.45863E+05	19.375
2600.0	40.454	-1.25496E+05	321.70	-9.61928E+05	19.325
2650.0	40.554	-1.23470E+05	322.48	-9.78033E+05	19.278
2700.0	40.655	-1.21440E+05	323.24	-9.94176E+05	19.233
2750.0	40.757	-1.19405E+05	323.98	-1.01036E+06	19.191
2800.0	40.862	-1.17365E+05	324.72	-1.02657E+06	19.150
2850.0	40.968	-1.15319E+05	325.44	-1.04283E+06	19.112
2900.0	41.076	-1.13268E+05	326.16	-1.05912E+06	19.076
2950.0	41.186	-1.11211E+05	326.86	-1.07544E+06	19.042
3000.0	41.298	-1.09149E+05	327.55	-1.09180E+06	19.010

(KCl)2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.866	-6.17642E+05	352.86	-7.22847E+05	126.64
300.00	80.894	-6.17493E+05	353.36	-7.23500E+05	125.97
350.00	81.484	-6.13432E+05	365.88	-7.41489E+05	110.66
400.00	81.867	-6.09348E+05	376.78	-7.60061E+05	99.251
450.00	82.131	-6.05247E+05	386.44	-7.79146E+05	90.439
500.00	82.319	-6.01136E+05	395.11	-7.98689E+05	83.436
550.00	82.459	-5.97016E+05	402.96	-8.18643E+05	77.746
600.00	82.566	-5.92890E+05	410.14	-8.38973E+05	73.037
650.00	82.649	-5.88760E+05	416.75	-8.59648E+05	69.080
700.00	82.715	-5.84626E+05	422.88	-8.80640E+05	65.713
750.00	82.769	-5.80489E+05	428.59	-9.01928E+05	62.814
800.00	82.813	-5.76349E+05	433.93	-9.23493E+05	60.296
850.00	82.850	-5.72207E+05	438.95	-9.45316E+05	58.091
900.00	82.881	-5.68064E+05	443.69	-9.67383E+05	56.144
950.00	82.907	-5.63919E+05	448.17	-9.89680E+05	54.415
1000.0	82.929	-5.59774E+05	452.42	-1.01220E+06	52.870
1050.0	82.949	-5.55627E+05	456.47	-1.03492E+06	51.483
1100.0	82.966	-5.51479E+05	460.33	-1.05784E+06	50.231
1150.0	82.981	-5.47330E+05	464.02	-1.08095E+06	49.097
1200.0	82.994	-5.43181E+05	467.55	-1.10424E+06	48.065
1250.0	83.006	-5.39031E+05	470.94	-1.12770E+06	47.123
1300.0	83.016	-5.34880E+05	474.19	-1.15133E+06	46.260
1350.0	83.026	-5.30729E+05	477.33	-1.17512E+06	45.467
1400.0	83.034	-5.26578E+05	480.35	-1.19906E+06	44.736
1450.0	83.042	-5.22426E+05	483.26	-1.22315E+06	44.062
1500.0	83.048	-5.18273E+05	486.07	-1.24739E+06	43.437
1550.0	83.055	-5.14121E+05	488.80	-1.27176E+06	42.857
1600.0	83.060	-5.09968E+05	491.43	-1.29626E+06	42.318
1650.0	83.066	-5.05815E+05	493.99	-1.32090E+06	41.815
1700.0	83.070	-5.01661E+05	496.47	-1.34566E+06	41.346
1750.0	83.075	-4.97508E+05	498.88	-1.37055E+06	40.908
1800.0	83.079	-4.93354E+05	501.22	-1.39555E+06	40.497
1850.0	83.082	-4.89200E+05	503.50	-1.42067E+06	40.111
1900.0	83.086	-4.85046E+05	505.71	-1.44590E+06	39.749
1950.0	83.089	-4.80891E+05	507.87	-1.47124E+06	39.409
2000.0	83.092	-4.76737E+05	509.97	-1.49668E+06	39.088
2050.0	83.095	-4.72582E+05	512.02	-1.52223E+06	38.786
2100.0	83.097	-4.68427E+05	514.03	-1.54788E+06	38.501
2150.0	83.099	-4.64272E+05	515.98	-1.57364E+06	38.231
2200.0	83.102	-4.60117E+05	517.89	-1.59948E+06	37.976
2250.0	83.104	-4.55962E+05	519.76	-1.62542E+06	37.734
2300.0	83.105	-4.51807E+05	521.59	-1.65146E+06	37.505
2350.0	83.107	-4.47652E+05	523.37	-1.67758E+06	37.288
2400.0	83.109	-4.43496E+05	525.12	-1.70379E+06	37.081
2450.0	83.110	-4.39341E+05	526.84	-1.73009E+06	36.885
2500.0	83.111	-4.35185E+05	528.52	-1.75648E+06	36.699
2550.0	83.113	-4.31030E+05	530.16	-1.78294E+06	36.521
2600.0	83.114	-4.26874E+05	531.78	-1.80949E+06	36.352
2650.0	83.115	-4.22718E+05	533.36	-1.83612E+06	36.191
2700.0	83.116	-4.18563E+05	534.91	-1.86283E+06	36.038
2750.0	83.116	-4.14407E+05	536.44	-1.88961E+06	35.891
2800.0	83.117	-4.10251E+05	537.94	-1.91647E+06	35.751
2850.0	83.118	-4.06095E+05	539.41	-1.94341E+06	35.618
2900.0	83.118	-4.01939E+05	540.85	-1.97041E+06	35.490
2950.0	83.119	-3.97783E+05	542.27	-1.99749E+06	35.368
3000.0	83.119	-3.93627E+05	543.67	-2.02464E+06	35.251

KBr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.470	-3.93450E+05	95.920	-4.22049E+05	73.939
300.00	52.473	-3.93353E+05	96.245	-4.22226E+05	73.514
350.00	52.760	-3.90724E+05	104.35	-4.27246E+05	63.761
400.00	53.317	-3.88073E+05	111.43	-4.32644E+05	56.496
450.00	54.031	-3.85389E+05	117.75	-4.38377E+05	50.884
500.00	54.842	-3.82668E+05	123.48	-4.44410E+05	46.426
550.00	55.717	-3.79904E+05	128.75	-4.50717E+05	42.804
600.00	56.635	-3.77095E+05	133.64	-4.57278E+05	39.809
650.00	57.584	-3.74240E+05	138.21	-4.64076E+05	37.293
700.00	58.555	-3.71337E+05	142.51	-4.71095E+05	35.153
750.00	59.542	-3.68384E+05	146.59	-4.78323E+05	33.313
800.00	60.542	-3.65382E+05	150.46	-4.85750E+05	31.715
850.00	61.551	-3.62330E+05	154.16	-4.93366E+05	30.318
900.00	62.568	-3.59227E+05	157.71	-5.01163E+05	29.086
950.00	63.591	-3.56073E+05	161.12	-5.09135E+05	27.993
1000.0	64.619	-3.52868E+05	164.41	-5.17273E+05	27.019
1007.0	64.763	-3.52415E+05	164.86	-5.18425E+05	26.891
1007.0	69.500	-3.26895E+05	190.20	-5.18426E+05	26.891
1050.0	69.500	-3.23906E+05	193.11	-5.26667E+05	26.200
1100.0	69.500	-3.20431E+05	196.34	-5.36404E+05	25.471
1150.0	69.500	-3.16956E+05	199.43	-5.46298E+05	24.813
1200.0	69.500	-3.13481E+05	202.39	-5.56344E+05	24.216
1250.0	69.500	-3.10006E+05	205.22	-5.66535E+05	23.674
1300.0	69.500	-3.06531E+05	207.95	-5.76865E+05	23.178
1350.0	69.500	-3.03056E+05	210.57	-5.87328E+05	22.725
1400.0	69.500	-2.99581E+05	213.10	-5.97920E+05	22.308
1450.0	69.500	-2.96106E+05	215.54	-6.08637E+05	21.925
1500.0	69.500	-2.92631E+05	217.89	-6.19473E+05	21.571
1550.0	69.500	-2.89156E+05	220.17	-6.30425E+05	21.245
1600.0	69.500	-2.85681E+05	222.38	-6.41489E+05	20.942
1650.0	69.500	-2.82206E+05	224.52	-6.52662E+05	20.661
1700.0	69.500	-2.78731E+05	226.59	-6.63940E+05	20.400
1750.0	69.500	-2.75256E+05	228.61	-6.75320E+05	20.157
1800.0	69.500	-2.71781E+05	230.57	-6.86799E+05	19.930
1850.0	69.500	-2.68306E+05	232.47	-6.98376E+05	19.718
1900.0	69.500	-2.64831E+05	234.32	-7.10046E+05	19.520
1950.0	69.500	-2.61356E+05	236.13	-7.21807E+05	19.335
2000.0	69.500	-2.57881E+05	237.89	-7.33658E+05	19.161
2050.0	69.500	-2.54406E+05	239.60	-7.45595E+05	18.998
2100.0	69.500	-2.50931E+05	241.28	-7.57617E+05	18.844
2150.0	69.500	-2.47456E+05	242.91	-7.69722E+05	18.700
2200.0	69.500	-2.43981E+05	244.51	-7.81908E+05	18.564
2250.0	69.500	-2.40506E+05	246.07	-7.94173E+05	18.437
2300.0	69.500	-2.37031E+05	247.60	-8.06515E+05	18.316
2350.0	69.500	-2.33556E+05	249.10	-8.18933E+05	18.202
2400.0	69.500	-2.30081E+05	250.56	-8.31424E+05	18.095
2450.0	69.500	-2.26606E+05	251.99	-8.43988E+05	17.994
2500.0	69.500	-2.23131E+05	253.40	-8.56623E+05	17.898
2550.0	69.500	-2.19656E+05	254.77	-8.69327E+05	17.807
2600.0	69.500	-2.16181E+05	256.12	-8.82100E+05	17.721
2650.0	69.500	-2.12706E+05	257.45	-8.94939E+05	17.640
2700.0	69.500	-2.09231E+05	258.75	-9.07844E+05	17.563
2750.0	69.500	-2.05756E+05	260.02	-9.20813E+05	17.490
2800.0	69.500	-2.02281E+05	261.27	-9.33846E+05	17.421
2850.0	69.500	-1.98806E+05	262.50	-9.46940E+05	17.355
2900.0	69.500	-1.95331E+05	263.71	-9.60096E+05	17.293
2950.0	69.500	-1.91856E+05	264.90	-9.73311E+05	17.234
3000.0	69.500	-1.88381E+05	266.07	-9.86585E+05	17.178

KBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.896	-1.79251E+05	250.53	-2.53948E+05	44.489
300.00	36.909	-1.79183E+05	250.76	-2.54411E+05	44.296
350.00	37.192	-1.77330E+05	256.47	-2.67096E+05	39.861
400.00	37.383	-1.75465E+05	261.45	-2.80047E+05	36.569
450.00	37.522	-1.73592E+05	265.87	-2.93232E+05	34.037
500.00	37.629	-1.71713E+05	269.82	-3.06626E+05	32.032
550.00	37.716	-1.69830E+05	273.42	-3.20208E+05	30.410
600.00	37.790	-1.67942E+05	276.70	-3.33962E+05	29.073
650.00	37.855	-1.66051E+05	279.73	-3.47874E+05	27.955
700.00	37.915	-1.64157E+05	282.54	-3.61931E+05	27.007
750.00	37.971	-1.62259E+05	285.15	-3.76124E+05	26.195
800.00	38.025	-1.60360E+05	287.61	-3.90444E+05	25.493
850.00	38.077	-1.58457E+05	289.91	-4.04882E+05	24.880
900.00	38.129	-1.56552E+05	292.09	-4.19433E+05	24.343
950.00	38.181	-1.54644E+05	294.15	-4.34089E+05	23.867
1000.0	38.233	-1.52734E+05	296.11	-4.48847E+05	23.445
1050.0	38.286	-1.50821E+05	297.98	-4.63699E+05	23.067
1100.0	38.340	-1.48905E+05	299.76	-4.78643E+05	22.728
1150.0	38.395	-1.46987E+05	301.47	-4.93674E+05	22.423
1200.0	38.451	-1.45066E+05	303.10	-5.08789E+05	22.146
1250.0	38.508	-1.43142E+05	304.67	-5.23983E+05	21.896
1300.0	38.567	-1.41215E+05	306.18	-5.39255E+05	21.667
1350.0	38.628	-1.39285E+05	307.64	-5.54601E+05	21.458
1400.0	38.690	-1.37352E+05	309.05	-5.70018E+05	21.267
1450.0	38.754	-1.35416E+05	310.41	-5.85505E+05	21.092
1500.0	38.819	-1.33477E+05	311.72	-6.01058E+05	20.930
1550.0	38.886	-1.31534E+05	312.99	-6.16676E+05	20.781
1600.0	38.955	-1.29588E+05	314.23	-6.32357E+05	20.644
1650.0	39.026	-1.27638E+05	315.43	-6.48099E+05	20.517
1700.0	39.099	-1.25685E+05	316.60	-6.63899E+05	20.399
1750.0	39.173	-1.23728E+05	317.73	-6.79758E+05	20.289
1800.0	39.250	-1.21768E+05	318.84	-6.95672E+05	20.187
1850.0	39.328	-1.19803E+05	319.91	-7.11641E+05	20.093
1900.0	39.408	-1.17835E+05	320.96	-7.27663E+05	20.004
1950.0	39.491	-1.15863E+05	321.99	-7.43737E+05	19.922
2000.0	39.575	-1.13886E+05	322.99	-7.59861E+05	19.845
2050.0	39.661	-1.11905E+05	323.97	-7.76035E+05	19.773
2100.0	39.749	-1.09920E+05	324.92	-7.92257E+05	19.706
2150.0	39.839	-1.07930E+05	325.86	-8.08527E+05	19.643
2200.0	39.930	-1.05936E+05	326.78	-8.24843E+05	19.584
2250.0	40.024	-1.03937E+05	327.67	-8.41204E+05	19.528
2300.0	40.120	-1.01934E+05	328.55	-8.57610E+05	19.476
2350.0	40.218	-99925.	329.42	-8.74059E+05	19.428
2400.0	40.318	-97912.	330.27	-8.90552E+05	19.382
2450.0	40.419	-95893.	331.10	-9.07086E+05	19.339
2500.0	40.523	-93870.	331.92	-9.23661E+05	19.298
2550.0	40.629	-91841.	332.72	-9.40277E+05	19.260
2600.0	40.736	-89807.	333.51	-9.56933E+05	19.225
2650.0	40.846	-87767.	334.29	-9.73628E+05	19.191
2700.0	40.958	-85722.	335.05	-9.90362E+05	19.159
2750.0	41.071	-83671.	335.80	-1.00713E+06	19.129
2800.0	41.187	-81615.	336.55	-1.02394E+06	19.101
2850.0	41.305	-79553.	337.28	-1.04079E+06	19.075
2900.0	41.425	-77484.	337.99	-1.05767E+06	19.050
2950.0	41.546	-75410.	338.70	-1.07459E+06	19.027
3000.0	41.670	-73330.	339.40	-1.09154E+06	19.005

(KBr) 2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	81.654	-5.38744E+05	376.37	-6.50958E+05	114.04
300.00	81.672	-5.38593E+05	376.87	-6.51655E+05	113.46
350.00	82.061	-5.34499E+05	389.50	-6.70822E+05	100.11
400.00	82.313	-5.30389E+05	400.47	-6.90577E+05	90.178
450.00	82.487	-5.26269E+05	410.18	-7.10848E+05	82.511
500.00	82.611	-5.22141E+05	418.87	-7.31578E+05	76.426
550.00	82.702	-5.18008E+05	426.75	-7.52722E+05	71.486
600.00	82.772	-5.13871E+05	433.95	-7.74242E+05	67.402
650.00	82.827	-5.09731E+05	440.58	-7.96108E+05	63.974
700.00	82.870	-5.05589E+05	446.72	-8.18292E+05	61.060
750.00	82.905	-5.01444E+05	452.44	-8.40773E+05	58.555
800.00	82.933	-4.97299E+05	457.79	-8.63530E+05	56.381
850.00	82.957	-4.93151E+05	462.82	-8.86546E+05	54.479
900.00	82.977	-4.89003E+05	467.56	-9.09807E+05	52.802
950.00	82.994	-4.84854E+05	472.05	-9.33298E+05	51.315
1000.0	83.008	-4.80704E+05	476.30	-9.57007E+05	49.988
1050.0	83.020	-4.76553E+05	480.35	-9.80925E+05	48.797
1100.0	83.031	-4.72402E+05	484.22	-1.00504E+06	47.724
1150.0	83.041	-4.68250E+05	487.91	-1.02934E+06	46.753
1200.0	83.049	-4.64097E+05	491.44	-1.05383E+06	45.871
1250.0	83.056	-4.59945E+05	494.83	-1.07849E+06	45.066
1300.0	83.063	-4.55792E+05	498.09	-1.10331E+06	44.330
1350.0	83.069	-4.51639E+05	501.22	-1.12829E+06	43.655
1400.0	83.074	-4.47485E+05	504.25	-1.15343E+06	43.034
1450.0	83.078	-4.43331E+05	507.16	-1.17872E+06	42.461
1500.0	83.083	-4.39177E+05	509.98	-1.20414E+06	41.931
1550.0	83.087	-4.35023E+05	512.70	-1.22971E+06	41.440
1600.0	83.090	-4.30869E+05	515.34	-1.25541E+06	40.984
1650.0	83.093	-4.26714E+05	517.90	-1.28124E+06	40.560
1700.0	83.096	-4.22559E+05	520.38	-1.30720E+06	40.164
1750.0	83.099	-4.18404E+05	522.79	-1.33328E+06	39.795
1800.0	83.101	-4.14249E+05	525.13	-1.35948E+06	39.450
1850.0	83.104	-4.10094E+05	527.40	-1.38579E+06	39.127
1900.0	83.106	-4.05939E+05	529.62	-1.41222E+06	38.824
1950.0	83.108	-4.01784E+05	531.78	-1.43875E+06	38.539
2000.0	83.110	-3.97628E+05	533.88	-1.46540E+06	38.271
2050.0	83.111	-3.93473E+05	535.94	-1.49214E+06	38.019
2100.0	83.113	-3.89317E+05	537.94	-1.51899E+06	37.782
2150.0	83.114	-3.85161E+05	539.89	-1.54593E+06	37.558
2200.0	83.116	-3.81006E+05	541.80	-1.57298E+06	37.346
2250.0	83.117	-3.76850E+05	543.67	-1.60011E+06	37.146
2300.0	83.118	-3.72694E+05	545.50	-1.62734E+06	36.957
2350.0	83.119	-3.68538E+05	547.29	-1.65466E+06	36.778
2400.0	83.120	-3.64382E+05	549.04	-1.68207E+06	36.608
2450.0	83.121	-3.60226E+05	550.75	-1.70957E+06	36.447
2500.0	83.122	-3.56070E+05	552.43	-1.73715E+06	36.295
2550.0	83.123	-3.51914E+05	554.08	-1.76481E+06	36.150
2600.0	83.124	-3.47758E+05	555.69	-1.79255E+06	36.012
2650.0	83.125	-3.43601E+05	557.27	-1.82038E+06	35.881
2700.0	83.126	-3.39445E+05	558.83	-1.84828E+06	35.756
2750.0	83.126	-3.35289E+05	560.35	-1.87626E+06	35.638
2800.0	83.127	-3.31132E+05	561.85	-1.90431E+06	35.525
2850.0	83.128	-3.26976E+05	563.32	-1.93244E+06	35.417
2900.0	83.128	-3.22820E+05	564.77	-1.96065E+06	35.314
2950.0	83.129	-3.18663E+05	566.19	-1.98892E+06	35.216
3000.0	83.129	-3.14507E+05	567.59	-2.01726E+06	35.123

K2CO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	114.43	-1.15150E+06	155.50	-1.19786E+06	209.86
300.00	114.72	-1.15129E+06	156.21	-1.19815E+06	208.61
350.00	122.54	-1.14536E+06	174.48	-1.20642E+06	180.04
400.00	130.36	-1.13903E+06	191.35	-1.21558E+06	158.73
450.00	138.18	-1.13232E+06	207.16	-1.22554E+06	142.25
500.00	146.00	-1.12522E+06	222.12	-1.23628E+06	129.15
550.00	153.82	-1.11772E+06	236.40	-1.24774E+06	118.50
600.00	161.64	-1.10983E+06	250.12	-1.25991E+06	109.68
650.00	169.46	-1.10156E+06	263.37	-1.27275E+06	102.28
693.00	176.18	-1.09413E+06	274.44	-1.28431E+06	96.802
693.00	156.64	-1.09203E+06	277.47	-1.28431E+06	96.802
700.00	157.12	-1.09093E+06	279.05	-1.28626E+06	95.979
750.00	160.56	-1.08299E+06	290.00	-1.30049E+06	90.572
800.00	164.00	-1.07487E+06	300.48	-1.31525E+06	85.875
850.00	167.45	-1.06659E+06	310.52	-1.33053E+06	81.762
900.00	170.89	-1.05813E+06	320.19	-1.34630E+06	78.135
950.00	174.33	-1.04950E+06	329.52	-1.36254E+06	74.916
1000.0	177.77	-1.04069E+06	338.55	-1.37924E+06	72.043
1050.0	181.22	-1.03172E+06	347.31	-1.39639E+06	69.465
1100.0	184.66	-1.02257E+06	355.82	-1.41397E+06	67.142
1150.0	188.10	-1.01325E+06	364.10	-1.43197E+06	65.040
1173.0	189.68	-1.00891E+06	367.84	-1.44039E+06	64.140
1173.0	205.50	-9.81294E+05	391.38	-1.44039E+06	64.140
1200.0	205.50	-9.75745E+05	396.06	-1.45102E+06	63.160
1250.0	205.50	-9.65470E+05	404.45	-1.47103E+06	61.470
1300.0	205.50	-9.55195E+05	412.51	-1.49146E+06	59.926
1350.0	205.50	-9.44920E+05	420.27	-1.51228E+06	58.512
1400.0	205.50	-9.34645E+05	427.74	-1.53348E+06	57.213
1450.0	205.50	-9.24370E+05	434.95	-1.55505E+06	56.017
1500.0	205.50	-9.14095E+05	441.92	-1.57697E+06	54.914
1550.0	205.50	-9.03820E+05	448.66	-1.59924E+06	53.893
1600.0	205.50	-8.93545E+05	455.18	-1.62183E+06	52.946
1650.0	205.50	-8.83270E+05	461.50	-1.64475E+06	52.067
1700.0	205.50	-8.72995E+05	467.64	-1.66798E+06	51.249
1750.0	205.50	-8.62720E+05	473.59	-1.69151E+06	50.488
1800.0	205.50	-8.52445E+05	479.38	-1.71534E+06	49.777
1850.0	205.50	-8.42170E+05	485.01	-1.73945E+06	49.112
1900.0	205.50	-8.31895E+05	490.49	-1.76384E+06	48.490
1950.0	205.50	-8.21620E+05	495.83	-1.78849E+06	47.907
2000.0	205.50	-8.11345E+05	501.04	-1.81342E+06	47.360
2050.0	205.50	-8.01070E+05	506.11	-1.83860E+06	46.847
2100.0	205.50	-7.90795E+05	511.06	-1.86403E+06	46.364
2150.0	205.50	-7.80520E+05	515.90	-1.88970E+06	45.909
2200.0	205.50	-7.70245E+05	520.62	-1.91561E+06	45.481
2250.0	205.50	-7.59970E+05	525.24	-1.94176E+06	45.078
2300.0	205.50	-7.49695E+05	529.76	-1.96814E+06	44.697
2350.0	205.50	-7.39420E+05	534.18	-1.99473E+06	44.337
2400.0	205.50	-7.29145E+05	538.50	-2.02155E+06	43.997
2450.0	205.50	-7.18870E+05	542.74	-2.04858E+06	43.675
2500.0	205.50	-7.08595E+05	546.89	-2.07582E+06	43.371
2550.0	205.50	-6.98320E+05	550.96	-2.10327E+06	43.083
2600.0	205.50	-6.88045E+05	554.95	-2.13092E+06	42.810
2650.0	205.50	-6.77770E+05	558.87	-2.15876E+06	42.551
2700.0	205.50	-6.67495E+05	562.71	-2.18680E+06	42.305
2750.0	205.50	-6.57220E+05	566.48	-2.21503E+06	42.072
2800.0	205.50	-6.46945E+05	570.18	-2.24345E+06	41.851
2850.0	205.50	-6.36670E+05	573.82	-2.27205E+06	41.641
2900.0	205.50	-6.26395E+05	577.39	-2.30083E+06	41.441
2950.0	205.50	-6.16120E+05	580.90	-2.32979E+06	41.252
3000.0	205.50	-6.05845E+05	584.36	-2.35892E+06	41.071

KCN

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	66.392	-1.13470E+05	127.78	-1.51567E+05	26.553
300.00	66.389	-1.13347E+05	128.19	-1.51804E+05	26.431
350.00	66.335	-1.10029E+05	138.42	-1.58476E+05	23.651
400.00	66.322	-1.06713E+05	147.28	-1.65623E+05	21.628
450.00	66.329	-1.03397E+05	155.09	-1.73186E+05	20.102
500.00	66.346	-1.00080E+05	162.08	-1.81118E+05	18.921
550.00	66.369	-96762.	168.40	-1.89383E+05	17.986
600.00	66.393	-93443.	174.18	-1.97949E+05	17.233
650.00	66.417	-90123.	179.49	-2.06793E+05	16.618
700.00	66.438	-86801.	184.42	-2.15892E+05	16.110
750.00	66.457	-83479.	189.00	-2.25229E+05	15.686
800.00	66.471	-80156.	193.29	-2.34787E+05	15.330
850.00	66.482	-76832.	197.32	-2.44553E+05	15.028
895.00	66.488	-73840.	200.75	-2.53510E+05	14.795
895.00	75.312	-59196.	217.11	-2.53511E+05	14.795
900.00	75.312	-58820.	217.53	-2.54597E+05	14.776
950.00	75.312	-55054.	221.60	-2.65576E+05	14.602
1000.0	75.312	-51288.	225.47	-2.76754E+05	14.456
1050.0	75.312	-47523.	229.14	-2.88120E+05	14.333
1100.0	75.312	-43757.	232.64	-2.99665E+05	14.230
1150.0	75.312	-39992.	235.99	-3.11381E+05	14.143
1200.0	75.312	-36226.	239.20	-3.23262E+05	14.071
1250.0	75.312	-32460.	242.27	-3.35299E+05	14.011
1300.0	75.312	-28695.	245.22	-3.47487E+05	13.962
1350.0	75.312	-24929.	248.07	-3.59820E+05	13.922
1400.0	75.312	-21164.	250.81	-3.72292E+05	13.890
1450.0	75.312	-17398.	253.45	-3.84899E+05	13.865
1500.0	75.312	-13632.	256.00	-3.97635E+05	13.847
1550.0	75.312	-9866.8	258.47	-4.10497E+05	13.833
1600.0	75.312	-6101.2	260.86	-4.23481E+05	13.825
1650.0	75.312	-2335.6	263.18	-4.36582E+05	13.821
1700.0	75.312	1430.0	265.43	-4.49798E+05	13.820
1750.0	75.312	5195.6	267.61	-4.63124E+05	13.823
1800.0	75.312	8961.2	269.73	-4.76558E+05	13.829
1850.0	75.312	12727.	271.80	-4.90096E+05	13.837
1900.0	75.312	16492.	273.80	-5.03737E+05	13.848
1950.0	75.312	20258.	275.76	-5.17476E+05	13.861
2000.0	75.312	24024.	277.67	-5.31312E+05	13.876
2050.0	75.312	27789.	279.53	-5.45242E+05	13.893
2100.0	75.312	31555.	281.34	-5.59264E+05	13.911
2150.0	75.312	35320.	283.11	-5.73375E+05	13.930
2200.0	75.312	39086.	284.85	-5.87575E+05	13.950
2250.0	75.312	42852.	286.54	-6.01859E+05	13.972
2300.0	75.312	46617.	288.19	-6.16228E+05	13.995
2350.0	75.312	50383.	289.81	-6.30678E+05	14.018
2400.0	75.312	54148.	291.40	-6.45209E+05	14.042
2450.0	75.312	57914.	292.95	-6.59817E+05	14.067
2500.0	75.312	61680.	294.47	-6.74503E+05	14.093

KCN<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	50.859	79496.	253.15	4020.8	-0.70441
300.00	50.893	79590.	253.46	3552.2	-0.61848
350.00	51.702	82156.	261.37	-9323.0	1.3914
400.00	52.368	84758.	268.32	-22569.	2.9471
450.00	52.951	87391.	274.52	-36142.	4.1952
500.00	53.483	90052.	280.13	-50011.	5.2244
550.00	53.982	92739.	285.25	-64147.	6.0920
600.00	54.458	95450.	289.96	-78529.	6.8363
650.00	54.919	98184.	294.34	-93138.	7.4844
700.00	55.368	1.00942E+05	298.43	-1.07958E+05	8.0557
750.00	55.810	1.03721E+05	302.26	-1.22976E+05	8.5646
800.00	56.246	1.06523E+05	305.88	-1.38181E+05	9.0220
850.00	56.669	1.09346E+05	309.30	-1.53561E+05	9.4365
900.00	57.046	1.12189E+05	312.55	-1.69108E+05	9.8145
950.00	57.387	1.15050E+05	315.65	-1.84813E+05	10.161
1000.0	57.696	1.17927E+05	318.60	-2.00670E+05	10.482
1050.0	57.979	1.20819E+05	321.42	-2.16671E+05	10.779
1100.0	58.240	1.23724E+05	324.12	-2.32810E+05	11.055
1150.0	58.481	1.26642E+05	326.72	-2.49081E+05	11.313
1200.0	58.705	1.29572E+05	329.21	-2.65480E+05	11.556
1250.0	58.913	1.32513E+05	331.61	-2.82001E+05	11.784
1300.0	59.108	1.35463E+05	333.93	-2.98639E+05	11.999
1350.0	59.290	1.38423E+05	336.16	-3.15392E+05	12.203
1400.0	59.461	1.41392E+05	338.32	-3.32254E+05	12.396
1450.0	59.621	1.44369E+05	340.41	-3.49223E+05	12.580
1500.0	59.771	1.47354E+05	342.43	-3.66294E+05	12.755
1550.0	59.911	1.50346E+05	344.39	-3.83465E+05	12.922
1600.0	60.043	1.53345E+05	346.30	-4.00732E+05	13.082
1650.0	60.166	1.56350E+05	348.15	-4.18094E+05	13.235
1700.0	60.281	1.59361E+05	349.95	-4.35546E+05	13.382
1750.0	60.388	1.62378E+05	351.69	-4.53087E+05	13.524
1800.0	60.488	1.65400E+05	353.40	-4.70715E+05	13.659
1850.0	60.581	1.68427E+05	355.06	-4.88426E+05	13.790
1900.0	60.666	1.71458E+05	356.67	-5.06220E+05	13.917
1950.0	60.745	1.74493E+05	358.25	-5.24093E+05	14.039
2000.0	60.817	1.77533E+05	359.79	-5.42044E+05	14.156
2050.0	60.882	1.80575E+05	361.29	-5.60071E+05	14.270
2100.0	60.941	1.83621E+05	362.76	-5.78173E+05	14.381
2150.0	60.994	1.86669E+05	364.19	-5.96347E+05	14.488
2200.0	61.040	1.89720E+05	365.60	-6.14592E+05	14.592
2250.0	61.094	1.92773E+05	366.97	-6.32906E+05	14.693
2300.0	61.145	1.95829E+05	368.31	-6.51288E+05	14.791
2350.0	61.192	1.98888E+05	369.63	-6.69736E+05	14.886
2400.0	61.237	2.01948E+05	370.92	-6.88250E+05	14.979
2450.0	61.279	2.05011E+05	372.18	-7.06828E+05	15.069
2500.0	61.318	2.08076E+05	373.42	-7.25468E+05	15.157
2550.0	61.356	2.11143E+05	374.63	-7.44169E+05	15.243
2600.0	61.391	2.14212E+05	375.82	-7.62931E+05	15.327
2650.0	61.425	2.17282E+05	376.99	-7.81751E+05	15.409
2700.0	61.457	2.20354E+05	378.14	-8.00630E+05	15.489
2750.0	61.487	2.23428E+05	379.27	-8.19565E+05	15.567
2800.0	61.516	2.26503E+05	380.38	-8.38556E+05	15.643
2850.0	61.543	2.29580E+05	381.47	-8.57602E+05	15.718
2900.0	61.569	2.32657E+05	382.54	-8.76703E+05	15.791
2950.0	61.594	2.35736E+05	383.59	-8.95856E+05	15.862
3000.0	61.618	2.38817E+05	384.63	-9.15061E+05	15.932

KBF4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	88.959	-1.55226E+06	315.37	-1.64629E+06	288.42
300.00	89.205	-1.55210E+06	315.93	-1.64688E+06	286.74
350.00	95.160	-1.54748E+06	330.14	-1.66303E+06	248.19
400.00	100.09	-1.54260E+06	343.18	-1.67987E+06	219.36
450.00	104.26	-1.53749E+06	355.21	-1.69733E+06	197.02
500.00	107.81	-1.53218E+06	366.39	-1.71538E+06	179.20
550.00	110.84	-1.52672E+06	376.81	-1.73396E+06	164.67
600.00	113.37	-1.52111E+06	386.56	-1.75305E+06	152.61
650.00	115.59	-1.51538E+06	395.73	-1.77261E+06	142.44
700.00	117.44	-1.50956E+06	404.37	-1.79261E+06	133.76
750.00	119.03	-1.50364E+06	412.52	-1.81304E+06	126.27
800.00	120.40	-1.49766E+06	420.25	-1.83386E+06	119.74
850.00	121.60	-1.49161E+06	427.59	-1.85505E+06	113.99
900.00	122.65	-1.48550E+06	434.57	-1.87661E+06	108.91
950.00	123.58	-1.47934E+06	441.22	-1.89851E+06	104.38
1000.0	124.39	-1.47314E+06	447.58	-1.92073E+06	100.33
1050.0	125.11	-1.46691E+06	453.67	-1.94326E+06	96.669
1100.0	125.75	-1.46063E+06	459.51	-1.96609E+06	93.359
1150.0	126.31	-1.45433E+06	465.11	-1.98921E+06	90.350
1200.0	126.79	-1.44800E+06	470.49	-2.01260E+06	87.604
1250.0	127.26	-1.44165E+06	475.68	-2.03625E+06	85.088
1300.0	127.67	-1.43528E+06	480.68	-2.06016E+06	82.776
1350.0	128.04	-1.42889E+06	485.51	-2.08432E+06	80.645
1400.0	128.37	-1.42248E+06	490.17	-2.10871E+06	78.675
1450.0	128.67	-1.41605E+06	494.68	-2.13333E+06	76.849
1500.0	128.94	-1.40961E+06	499.04	-2.15818E+06	75.152
1550.0	129.19	-1.40316E+06	503.28	-2.18323E+06	73.573
1600.0	129.41	-1.39669E+06	507.38	-2.20850E+06	72.098
1650.0	129.61	-1.39022E+06	511.37	-2.23397E+06	70.720
1700.0	129.80	-1.38373E+06	515.24	-2.25964E+06	69.428
1750.0	129.97	-1.37724E+06	519.00	-2.28549E+06	68.216
1800.0	130.13	-1.37073E+06	522.67	-2.31153E+06	67.077
1850.0	130.27	-1.36422E+06	526.24	-2.33776E+06	66.005
1900.0	130.41	-1.35771E+06	529.71	-2.36416E+06	64.994
1950.0	130.53	-1.35118E+06	533.10	-2.39073E+06	64.039
2000.0	130.65	-1.34465E+06	536.41	-2.41747E+06	63.136
2050.0	130.76	-1.33812E+06	539.63	-2.44437E+06	62.282
2100.0	130.86	-1.33158E+06	542.79	-2.47143E+06	61.472
2150.0	130.95	-1.32503E+06	545.87	-2.49864E+06	60.703
2200.0	131.04	-1.31848E+06	548.88	-2.52601E+06	59.974
2250.0	131.12	-1.31193E+06	551.82	-2.55353E+06	59.280
2300.0	131.20	-1.30537E+06	554.71	-2.58119E+06	58.619
2350.0	131.27	-1.29881E+06	557.53	-2.60900E+06	57.990
2400.0	131.34	-1.29224E+06	560.29	-2.63695E+06	57.390
2450.0	131.41	-1.28567E+06	563.00	-2.66503E+06	56.818
2500.0	131.47	-1.27910E+06	565.66	-2.69325E+06	56.271
2550.0	131.53	-1.27253E+06	568.26	-2.72159E+06	55.748
2600.0	131.58	-1.26595E+06	570.82	-2.75007E+06	55.248
2650.0	131.63	-1.25937E+06	573.32	-2.77867E+06	54.770
2700.0	131.68	-1.25279E+06	575.78	-2.80740E+06	54.311
2750.0	131.73	-1.24620E+06	578.20	-2.83625E+06	53.872
2800.0	131.77	-1.23961E+06	580.57	-2.86522E+06	53.450
2850.0	131.82	-1.23302E+06	582.91	-2.89431E+06	53.045
2900.0	131.86	-1.22643E+06	585.20	-2.92351E+06	52.657
2950.0	131.90	-1.21984E+06	587.45	-2.95283E+06	52.283
3000.0	131.93	-1.21324E+06	589.67	-2.98226E+06	51.924

La

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.112	0.00000E+00	56.902	-16965.	2.9722
300.00	27.117	50.162	57.070	-17071.	2.9722
350.00	27.247	1409.3	61.260	-20032.	2.9895
400.00	27.376	2774.8	64.906	-23188.	3.0279
450.00	27.506	4146.9	68.138	-26515.	3.0777
500.00	27.635	5525.4	71.043	-29996.	3.1336
550.00	27.765	6910.4	73.683	-33615.	3.1924
550.00	27.196	7274.4	74.345	-33615.	3.1924
550.00	27.196	7274.4	74.345	-33615.	3.1924
600.00	27.782	8648.8	76.736	-37393.	3.2553
650.00	28.384	10053.	78.984	-41286.	3.3177
700.00	29.001	11487.	81.109	-45289.	3.3794
750.00	29.634	12953.	83.132	-49396.	3.4401
800.00	30.283	14451.	85.065	-53601.	3.4997
850.00	30.948	15982.	86.921	-57901.	3.5581
900.00	31.629	17546.	88.709	-62292.	3.6152
950.00	32.325	19145.	90.438	-66771.	3.6712
1000.0	33.037	20779.	92.114	-71335.	3.7261
1050.0	33.765	22449.	93.743	-75981.	3.7798
1100.0	34.509	24156.	95.331	-80708.	3.8324
1134.0	35.024	25338.	96.389	-83968.	3.8676
1134.0	39.539	28459.	99.142	-83968.	3.8676
1150.0	39.539	29092.	99.696	-85558.	3.8861
1193.0	39.539	30792.	101.15	-89877.	3.9351
1193.0	34.309	36988.	106.34	-89877.	3.9351
1200.0	34.309	37229.	106.54	-90622.	3.9446
1250.0	34.309	38944.	107.94	-95984.	4.0109
1300.0	34.309	40659.	109.29	-1.01415E+05	4.0748
1350.0	34.309	42375.	110.58	-1.06912E+05	4.1366
1400.0	34.309	44090.	111.83	-1.12473E+05	4.1963
1450.0	34.309	45806.	113.03	-1.18094E+05	4.2541
1500.0	34.309	47521.	114.20	-1.23775E+05	4.3101
1550.0	34.309	49237.	115.32	-1.29514E+05	4.3645
1600.0	34.309	50952.	116.41	-1.35307E+05	4.4172
1650.0	34.309	52668.	117.47	-1.41154E+05	4.4685
1700.0	34.309	54383.	118.49	-1.47053E+05	4.5183
1750.0	34.309	56098.	119.49	-1.53003E+05	4.5668
1800.0	34.309	57814.	120.45	-1.59002E+05	4.6140
1850.0	34.309	59529.	121.39	-1.65048E+05	4.6600
1900.0	34.309	61245.	122.31	-1.71140E+05	4.7049
1950.0	34.309	62960.	123.20	-1.77278E+05	4.7486
2000.0	34.309	64676.	124.07	-1.83460E+05	4.7914
2050.0	34.309	66391.	124.91	-1.89685E+05	4.8331
2100.0	34.309	68106.	125.74	-1.95951E+05	4.8739
2150.0	34.309	69822.	126.55	-2.02259E+05	4.9138
2200.0	34.309	71537.	127.34	-2.08606E+05	4.9528
2250.0	34.309	73253.	128.11	-2.14992E+05	4.9910
2300.0	34.309	74968.	128.86	-2.21416E+05	5.0284
2350.0	34.309	76684.	129.60	-2.27878E+05	5.0650
2400.0	34.309	78399.	130.32	-2.34376E+05	5.1009
2450.0	34.309	80115.	131.03	-2.40910E+05	5.1361
2500.0	34.309	81830.	131.72	-2.47479E+05	5.1707
2550.0	34.309	83545.	132.40	-2.54082E+05	5.2045
2600.0	34.309	85261.	133.07	-2.60719E+05	5.2378
2650.0	34.309	86976.	133.72	-2.67389E+05	5.2704
2700.0	34.309	88692.	134.36	-2.74091E+05	5.3025
2750.0	34.309	90407.	134.99	-2.80825E+05	5.3340
2800.0	34.309	92123.	135.61	-2.87590E+05	5.3649
2850.0	34.309	93838.	136.22	-2.94386E+05	5.3954
2900.0	34.309	95554.	136.82	-3.01212E+05	5.4253
2950.0	34.309	97269.	137.40	-3.08067E+05	5.4547
3000.0	34.309	98984.	137.98	-3.14952E+05	5.4837

LaBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.037	-6.03751E+05	383.70	-7.18152E+05	125.81
300.00	80.074	-6.03603E+05	384.20	-7.18863E+05	125.16
350.00	80.868	-5.99578E+05	396.61	-7.38390E+05	110.20
400.00	81.384	-5.95521E+05	407.44	-7.58497E+05	99.047
450.00	81.739	-5.91442E+05	417.05	-7.79114E+05	90.435
500.00	81.994	-5.87349E+05	425.67	-8.00185E+05	83.593
550.00	82.184	-5.83244E+05	433.50	-8.21668E+05	78.034
600.00	82.329	-5.79131E+05	440.66	-8.43524E+05	73.433
650.00	82.443	-5.75012E+05	447.25	-8.65724E+05	69.569
700.00	82.534	-5.70887E+05	453.36	-8.88241E+05	66.280
750.00	82.608	-5.66759E+05	459.06	-9.11053E+05	63.450
800.00	82.669	-5.62627E+05	464.39	-9.34141E+05	60.992
850.00	82.721	-5.58492E+05	469.41	-9.57487E+05	58.839
900.00	82.765	-5.54355E+05	474.14	-9.81077E+05	56.939
950.00	82.802	-5.50215E+05	478.61	-1.00490E+06	55.252
1000.0	82.835	-5.46074E+05	482.86	-1.02893E+06	53.745
1050.0	82.864	-5.41932E+05	486.90	-1.05318E+06	52.391
1100.0	82.889	-5.37788E+05	490.76	-1.07762E+06	51.171
1150.0	82.911	-5.33643E+05	494.44	-1.10225E+06	50.065
1200.0	82.932	-5.29497E+05	497.97	-1.12706E+06	49.059
1250.0	82.950	-5.25350E+05	501.36	-1.15205E+06	48.140
1300.0	82.967	-5.21202E+05	504.61	-1.17720E+06	47.299
1350.0	82.982	-5.17053E+05	507.74	-1.20251E+06	46.527
1400.0	82.996	-5.12904E+05	510.76	-1.22797E+06	45.815
1450.0	83.009	-5.08754E+05	513.67	-1.25358E+06	45.158
1500.0	83.021	-5.04603E+05	516.49	-1.27933E+06	44.549
1550.0	83.033	-5.00452E+05	519.21	-1.30523E+06	43.985
1600.0	83.043	-4.96300E+05	521.85	-1.33125E+06	43.460
1650.0	83.053	-4.92147E+05	524.40	-1.35741E+06	42.971
1700.0	83.063	-4.87994E+05	526.88	-1.38369E+06	42.515
1750.0	83.072	-4.83841E+05	529.29	-1.41010E+06	42.088
1800.0	83.080	-4.79687E+05	531.63	-1.43662E+06	41.689
1850.0	83.088	-4.75533E+05	533.91	-1.46326E+06	41.314
1900.0	83.096	-4.71378E+05	536.12	-1.49001E+06	40.962
1950.0	83.104	-4.67223E+05	538.28	-1.51687E+06	40.631
2000.0	83.111	-4.63068E+05	540.38	-1.54384E+06	40.320

Li

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.790	0.00000E+00	29.120	-8682.1	1.5210
300.00	24.835	45.903	29.273	-8736.1	1.5211
350.00	26.106	1318.7	33.195	-10300.	1.5371
400.00	27.642	2661.0	36.777	-12050.	1.5735
450.00	29.582	4089.7	40.141	-13974.	1.6220
453.69	29.743	4199.1	40.383	-14122.	1.6259
453.69	30.375	7199.2	46.996	-14122.	1.6259
500.00	30.071	8598.6	49.933	-16368.	1.7099
550.00	29.804	10095.	52.786	-18937.	1.7984
600.00	29.584	11580.	55.369	-21642.	1.8841
650.00	29.400	13054.	57.730	-24470.	1.9664
700.00	29.248	14520.	59.903	-27412.	2.0454
750.00	29.121	15979.	61.916	-30458.	2.1212
800.00	29.017	17433.	63.792	-33601.	2.1939
850.00	28.934	18881.	65.549	-36835.	2.2636
900.00	28.870	20326.	67.201	-40154.	2.3304
950.00	28.824	21769.	68.761	-43554.	2.3947
1000.0	28.795	23209.	70.238	-47029.	2.4565
1050.0	28.782	24649.	71.643	-50576.	2.5160
1100.0	28.785	26088.	72.982	-54192.	2.5733
1150.0	28.803	27527.	74.262	-57874.	2.6286
1200.0	28.836	28968.	75.488	-61617.	2.6821
1250.0	28.883	30411.	76.666	-65422.	2.7337
1300.0	28.945	31857.	77.800	-69283.	2.7838
1350.0	29.021	33306.	78.894	-73201.	2.8322
1400.0	29.111	34759.	79.951	-77172.	2.8793
1450.0	29.216	36217.	80.974	-81195.	2.9249
1500.0	29.333	37681.	81.967	-85269.	2.9693
1550.0	29.465	39151.	82.931	-89392.	3.0124
1600.0	29.611	40628.	83.868	-93562.	3.0544
1650.0	29.770	42112.	84.782	-97778.	3.0953
1700.0	29.942	43605.	85.673	-1.02039E+05	3.1352
1750.0	30.128	45107.	86.544	-1.06345E+05	3.1741
1800.0	30.328	46618.	87.395	-1.10693E+05	3.2122
1850.0	30.541	48140.	88.229	-1.15084E+05	3.2493
1900.0	30.767	49672.	89.046	-1.19516E+05	3.2856
1950.0	31.007	51216.	89.849	-1.23989E+05	3.3212
2000.0	31.260	52773.	90.637	-1.28501E+05	3.3560
2050.0	31.527	54343.	91.412	-1.33052E+05	3.3901
2100.0	31.806	55926.	92.175	-1.37642E+05	3.4236
2150.0	32.099	57524.	92.927	-1.42269E+05	3.4564
2200.0	32.406	59136.	93.668	-1.46934E+05	3.4886
2250.0	32.725	60764.	94.400	-1.51636E+05	3.5202
2300.0	33.058	62409.	95.123	-1.56374E+05	3.5513
2350.0	33.404	64070.	95.838	-1.61148E+05	3.5818
2400.0	33.764	65750.	96.545	-1.65958E+05	3.6119
2450.0	34.136	67447.	97.245	-1.70803E+05	3.6415
2500.0	34.522	69163.	97.938	-1.75682E+05	3.6706
2550.0	34.921	70899.	98.626	-1.80596E+05	3.6993
2600.0	35.334	72656.	99.308	-1.85545E+05	3.7275
2650.0	35.759	74433.	99.985	-1.90527E+05	3.7554
2700.0	36.198	76232.	100.66	-1.95543E+05	3.7829
2750.0	36.650	78053.	101.33	-2.00593E+05	3.8100
2800.0	37.115	79897.	101.99	-2.05676E+05	3.8368
2850.0	37.593	81765.	102.65	-2.10792E+05	3.8633
2900.0	38.084	83657.	103.31	-2.15941E+05	3.8894
2950.0	38.589	85573.	103.96	-2.21123E+05	3.9152
3000.0	39.107	87516.	104.62	-2.26337E+05	3.9408

LiCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.243	-1.93780E+05	212.86	-2.57243E+05	45.067
300.00	33.284	-1.93718E+05	213.06	-2.57637E+05	44.858
350.00	34.201	-1.92030E+05	218.27	-2.68423E+05	40.059
400.00	34.851	-1.90303E+05	222.88	-2.79454E+05	36.492
450.00	35.343	-1.88547E+05	227.01	-2.90703E+05	33.743
500.00	35.732	-1.86770E+05	230.76	-3.02149E+05	31.564
550.00	36.052	-1.84975E+05	234.18	-3.13774E+05	29.799
600.00	36.321	-1.83166E+05	237.33	-3.25562E+05	28.342
650.00	36.552	-1.81344E+05	240.24	-3.37502E+05	27.121
700.00	36.753	-1.79511E+05	242.96	-3.49583E+05	26.086
750.00	36.929	-1.77669E+05	245.50	-3.61796E+05	25.197
800.00	37.085	-1.75819E+05	247.89	-3.74131E+05	24.428
850.00	37.222	-1.73961E+05	250.14	-3.86582E+05	23.756
900.00	37.343	-1.72097E+05	252.27	-3.99143E+05	23.165
950.00	37.449	-1.70227E+05	254.30	-4.11808E+05	22.642
1000.0	37.542	-1.68352E+05	256.22	-4.24571E+05	22.177
1050.0	37.622	-1.66473E+05	258.05	-4.37428E+05	21.760
1100.0	37.690	-1.64590E+05	259.80	-4.50375E+05	21.386
1150.0	37.764	-1.62704E+05	261.48	-4.63408E+05	21.048
1200.0	37.835	-1.60814E+05	263.09	-4.76522E+05	20.742
1250.0	37.903	-1.58920E+05	264.64	-4.89716E+05	20.464
1300.0	37.968	-1.57023E+05	266.12	-5.02985E+05	20.210
1350.0	38.031	-1.55123E+05	267.56	-5.16327E+05	19.977
1400.0	38.092	-1.53220E+05	268.94	-5.29740E+05	19.764
1450.0	38.152	-1.51314E+05	270.28	-5.43221E+05	19.568
1500.0	38.211	-1.49405E+05	271.57	-5.56767E+05	19.388
1550.0	38.269	-1.47493E+05	272.83	-5.70377E+05	19.221
1600.0	38.326	-1.45578E+05	274.04	-5.84049E+05	19.067
1650.0	38.382	-1.43661E+05	275.22	-5.97781E+05	18.924
1700.0	38.439	-1.41740E+05	276.37	-6.11571E+05	18.791
1750.0	38.495	-1.39817E+05	277.49	-6.25418E+05	18.667
1800.0	38.551	-1.37890E+05	278.57	-6.39320E+05	18.552
1850.0	38.607	-1.35962E+05	279.63	-6.53275E+05	18.445
1900.0	38.663	-1.34030E+05	280.66	-6.67282E+05	18.344
1950.0	38.719	-1.32095E+05	281.66	-6.81340E+05	18.251
2000.0	38.776	-1.30158E+05	282.65	-6.95448E+05	18.163
2050.0	38.832	-1.28218E+05	283.60	-7.09604E+05	18.080
2100.0	38.889	-1.26275E+05	284.54	-7.23808E+05	18.003
2150.0	38.947	-1.24329E+05	285.46	-7.38058E+05	17.931
2200.0	39.004	-1.22380E+05	286.35	-7.52353E+05	17.863
2250.0	39.063	-1.20428E+05	287.23	-7.66693E+05	17.799
2300.0	39.121	-1.18474E+05	288.09	-7.81076E+05	17.738
2350.0	39.180	-1.16516E+05	288.93	-7.95501E+05	17.682
2400.0	39.240	-1.14556E+05	289.76	-8.09968E+05	17.628
2450.0	39.300	-1.12592E+05	290.57	-8.24476E+05	17.578
2500.0	39.361	-1.10626E+05	291.36	-8.39025E+05	17.530
2550.0	39.422	-1.08656E+05	292.14	-8.53612E+05	17.485
2600.0	39.484	-1.06683E+05	292.91	-8.68238E+05	17.443
2650.0	39.546	-1.04708E+05	293.66	-8.82902E+05	17.403
2700.0	39.609	-1.02729E+05	294.40	-8.97604E+05	17.365
2750.0	39.673	-1.00747E+05	295.13	-9.12342E+05	17.329
2800.0	39.737	-98762.	295.84	-9.27116E+05	17.295
2850.0	39.802	-96773.	296.54	-9.41926E+05	17.263
2900.0	39.868	-94781.	297.24	-9.56771E+05	17.233
2950.0	39.934	-92786.	297.92	-9.71650E+05	17.204
3000.0	40.001	-90788.	298.59	-9.86562E+05	17.177

LiBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	33.916	-1.51163E+05	224.33	-2.18048E+05	38.200
300.00	33.955	-1.51100E+05	224.54	-2.18463E+05	38.037
350.00	34.803	-1.49380E+05	229.85	-2.29826E+05	34.299
400.00	35.386	-1.47624E+05	234.53	-2.41438E+05	31.528
450.00	35.814	-1.45844E+05	238.73	-2.53271E+05	29.398
500.00	36.144	-1.44045E+05	242.52	-2.65304E+05	27.715
550.00	36.410	-1.42230E+05	245.98	-2.77518E+05	26.356
600.00	36.631	-1.40404E+05	249.15	-2.89897E+05	25.237
650.00	36.819	-1.38568E+05	252.09	-3.02429E+05	24.303
700.00	36.983	-1.36723E+05	254.83	-3.15103E+05	23.513
750.00	37.127	-1.34870E+05	257.39	-3.27909E+05	22.837
800.00	37.257	-1.33010E+05	259.79	-3.40839E+05	22.254
850.00	37.375	-1.31144E+05	262.05	-3.53885E+05	21.747
900.00	37.482	-1.29273E+05	264.19	-3.67041E+05	21.302
950.00	37.580	-1.27396E+05	266.22	-3.80302E+05	20.910
1000.0	37.671	-1.25515E+05	268.15	-3.93661E+05	20.562
1050.0	37.755	-1.23629E+05	269.99	-4.07115E+05	20.252
1100.0	37.833	-1.21740E+05	271.74	-4.20659E+05	19.975
1150.0	37.905	-1.19846E+05	273.43	-4.34288E+05	19.725
1200.0	37.973	-1.17949E+05	275.04	-4.48000E+05	19.500
1250.0	38.035	-1.16049E+05	276.59	-4.61792E+05	19.297
1300.0	38.093	-1.14146E+05	278.09	-4.75659E+05	19.112
1350.0	38.147	-1.12240E+05	279.53	-4.89599E+05	18.943
1400.0	38.197	-1.10331E+05	280.91	-5.03611E+05	18.789
1450.0	38.244	-1.08420E+05	282.25	-5.17690E+05	18.649
1500.0	38.291	-1.06507E+05	283.55	-5.31835E+05	18.520
1550.0	38.341	-1.04591E+05	284.81	-5.46044E+05	18.401
1600.0	38.391	-1.02673E+05	286.03	-5.60316E+05	18.292
1650.0	38.443	-1.00752E+05	287.21	-5.74647E+05	18.191
1700.0	38.495	-98829.	288.36	-5.89036E+05	18.098
1750.0	38.548	-96902.	289.47	-6.03482E+05	18.012
1800.0	38.603	-94974.	290.56	-6.17983E+05	17.933
1850.0	38.658	-93042.	291.62	-6.32537E+05	17.859
1900.0	38.713	-91108.	292.65	-6.47144E+05	17.791
1950.0	38.770	-89171.	293.66	-6.61802E+05	17.727
2000.0	38.827	-87231.	294.64	-6.76509E+05	17.668
2050.0	38.885	-85288.	295.60	-6.91266E+05	17.613
2100.0	38.943	-83342.	296.54	-7.06069E+05	17.562
2150.0	39.002	-81394.	297.45	-7.20919E+05	17.514
2200.0	39.062	-79442.	298.35	-7.35814E+05	17.470
2250.0	39.122	-77488.	299.23	-7.50754E+05	17.429
2300.0	39.183	-75530.	300.09	-7.65737E+05	17.390
2350.0	39.244	-73569.	300.93	-7.80762E+05	17.354
2400.0	39.306	-71606.	301.76	-7.95830E+05	17.320
2450.0	39.368	-69639.	302.57	-8.10938E+05	17.289
2500.0	39.431	-67669.	303.37	-8.26087E+05	17.260
2550.0	39.494	-65696.	304.15	-8.41274E+05	17.232
2600.0	39.558	-63719.	304.92	-8.56501E+05	17.207
2650.0	39.622	-61740.	305.67	-8.71766E+05	17.183
2700.0	39.687	-59757.	306.41	-8.87068E+05	17.161
2750.0	39.752	-57771.	307.14	-9.02407E+05	17.140
2800.0	39.817	-55782.	307.86	-9.17782E+05	17.121
2850.0	39.883	-53789.	308.56	-9.33192E+05	17.103
2900.0	39.950	-51794.	309.26	-9.48638E+05	17.086
2950.0	40.017	-49794.	309.94	-9.64118E+05	17.071
3000.0	40.084	-47792.	310.61	-9.79632E+05	17.056

Li2CO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	96.201	-1.21587E+06	90.165	-1.24275E+06	217.72
300.00	96.516	-1.21569E+06	90.761	-1.24292E+06	216.41
350.00	104.46	-1.21066E+06	106.25	-1.24785E+06	186.23
400.00	112.10	-1.20525E+06	120.69	-1.25353E+06	163.69
450.00	120.12	-1.19945E+06	134.35	-1.25991E+06	146.24
500.00	128.87	-1.19323E+06	147.45	-1.26695E+06	132.35
550.00	138.54	-1.18655E+06	160.18	-1.27465E+06	121.05
600.00	149.26	-1.17935E+06	172.69	-1.28297E+06	111.69
623.00	154.57	-1.17586E+06	178.40	-1.28701E+06	107.90
623.00	146.15	-1.17530E+06	179.30	-1.28701E+06	107.90
650.00	146.15	-1.17135E+06	185.50	-1.29193E+06	103.82
683.00	146.15	-1.16653E+06	192.74	-1.29817E+06	99.280
683.00	137.78	-1.16429E+06	196.02	-1.29817E+06	99.279
700.00	140.87	-1.16192E+06	199.44	-1.30153E+06	97.119
750.00	149.94	-1.15465E+06	209.47	-1.31176E+06	91.357
800.00	158.99	-1.14693E+06	219.44	-1.32248E+06	86.347
850.00	168.01	-1.13876E+06	229.35	-1.33370E+06	81.957
900.00	177.02	-1.13013E+06	239.20	-1.34541E+06	78.084
950.00	186.01	-1.12105E+06	249.02	-1.35762E+06	74.645
1000.0	195.00	-1.11153E+06	258.79	-1.37032E+06	71.576
1005.0	195.90	-1.11055E+06	259.76	-1.37161E+06	71.287
1005.0	185.43	-1.06578E+06	304.31	-1.37161E+06	71.287
1050.0	185.43	-1.05744E+06	312.43	-1.38549E+06	68.923
1100.0	185.43	-1.04817E+06	321.06	-1.40133E+06	66.542
1150.0	185.43	-1.03889E+06	329.30	-1.41759E+06	64.387
1200.0	185.43	-1.02962E+06	337.19	-1.43425E+06	62.430
1250.0	185.43	-1.02035E+06	344.76	-1.45130E+06	60.645
1300.0	185.43	-1.01108E+06	352.03	-1.46872E+06	59.013
1350.0	185.43	-1.00181E+06	359.03	-1.48650E+06	57.515
1400.0	185.43	-9.92536E+05	365.78	-1.50462E+06	56.137
1450.0	185.43	-9.83264E+05	372.28	-1.52307E+06	54.866
1500.0	185.43	-9.73993E+05	378.57	-1.54185E+06	53.691
1550.0	185.43	-9.64721E+05	384.65	-1.56093E+06	52.602
1600.0	185.43	-9.55449E+05	390.54	-1.58031E+06	51.590
1650.0	185.43	-9.46177E+05	396.24	-1.59998E+06	50.650
1700.0	185.43	-9.36906E+05	401.78	-1.61993E+06	49.773
1750.0	185.43	-9.27634E+05	407.15	-1.64015E+06	48.955
1800.0	185.43	-9.18362E+05	412.38	-1.66064E+06	48.189
1850.0	185.43	-9.09090E+05	417.46	-1.68139E+06	47.473
1900.0	185.43	-8.99819E+05	422.40	-1.70239E+06	46.801
1950.0	185.43	-8.90547E+05	427.22	-1.72363E+06	46.170
2000.0	185.43	-8.81275E+05	431.92	-1.74511E+06	45.576

Lu

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.778	0.00000E+00	50.961	-15194.	2.6619
300.00	26.781	49.542	51.127	-15288.	2.6619
350.00	26.845	1390.4	55.261	-17951.	2.6789
400.00	26.881	2733.6	58.848	-20805.	2.7168
450.00	26.923	4078.7	62.016	-23829.	2.7659
500.00	26.989	5426.3	64.856	-27002.	2.8208
550.00	27.089	6778.1	67.432	-30310.	2.8785
600.00	27.229	8135.9	69.795	-33741.	2.9374
650.00	27.414	9501.8	71.982	-37286.	2.9963
700.00	27.646	10878.	74.022	-40937.	3.0547
750.00	28.002	12269.	75.941	-44686.	3.1122
800.00	28.390	13679.	77.760	-48529.	3.1686
850.00	28.812	15109.	79.494	-52461.	3.2238
900.00	29.272	16561.	81.154	-56478.	3.2778
950.00	29.769	18037.	82.749	-60575.	3.3306
1000.0	30.307	19538.	84.290	-64752.	3.3822
1050.0	30.885	21068.	85.782	-69004.	3.4327
1100.0	31.505	22628.	87.233	-73329.	3.4820
1150.0	32.167	24219.	88.648	-77726.	3.5304
1200.0	32.872	25845.	90.032	-82193.	3.5777
1250.0	33.619	27507.	91.389	-86729.	3.6241
1300.0	34.410	29208.	92.723	-91332.	3.6697
1350.0	35.245	30949.	94.037	-96001.	3.7144
1400.0	36.123	32733.	95.334	-1.00735E+05	3.7584
1450.0	37.045	34562.	96.618	-1.05534E+05	3.8017
1500.0	38.011	36438.	97.890	-1.10397E+05	3.8443
1550.0	39.021	38364.	99.153	-1.15323E+05	3.8863
1600.0	40.076	40341.	100.41	-1.20312E+05	3.9277
1650.0	41.175	42372.	101.66	-1.25364E+05	3.9686
1700.0	42.300	44459.	102.90	-1.30478E+05	4.0090
1750.0	43.490	46604.	104.15	-1.35654E+05	4.0490
1800.0	44.680	48808.	105.39	-1.40893E+05	4.0885
1850.0	45.870	51072.	106.63	-1.46193E+05	4.1276
1900.0	47.060	53395.	107.87	-1.51556E+05	4.1664
1936.0	47.917	55105.	108.76	-1.55455E+05	4.1942
1936.0	47.907	73753.	118.39	-1.55455E+05	4.1942
1950.0	47.907	74424.	118.74	-1.57115E+05	4.2085
2000.0	47.907	76819.	119.95	-1.63082E+05	4.2592
2050.0	47.907	79214.	121.13	-1.69109E+05	4.3089
2100.0	47.907	81610.	122.29	-1.75195E+05	4.3576
2150.0	47.907	84005.	123.42	-1.81338E+05	4.4055
2200.0	47.907	86400.	124.52	-1.87536E+05	4.4526
2250.0	47.907	88796.	125.59	-1.93789E+05	4.4988
2300.0	47.907	91191.	126.65	-2.00095E+05	4.5442
2350.0	47.907	93586.	127.68	-2.06453E+05	4.5888
2400.0	47.907	95982.	128.68	-2.12862E+05	4.6327
2450.0	47.907	98377.	129.67	-2.19321E+05	4.6759
2500.0	47.907	1.00772E+05	130.64	-2.25829E+05	4.7183
2550.0	47.907	1.03168E+05	131.59	-2.32385E+05	4.7601
2600.0	47.907	1.05563E+05	132.52	-2.38988E+05	4.8012
2650.0	47.907	1.07958E+05	133.43	-2.45637E+05	4.8417
2700.0	47.907	1.10354E+05	134.33	-2.52331E+05	4.8815
2750.0	47.907	1.12749E+05	135.21	-2.59069E+05	4.9207
2800.0	47.907	1.15144E+05	136.07	-2.65851E+05	4.9594
2850.0	47.907	1.17540E+05	136.92	-2.72676E+05	4.9975
2900.0	47.907	1.19935E+05	137.75	-2.79543E+05	5.0350
2950.0	47.907	1.22330E+05	138.57	-2.86451E+05	5.0720
3000.0	47.907	1.24726E+05	139.38	-2.93399E+05	5.1084

Mg

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.862	0.00000E+00	32.671	-9740.9	1.7065
300.00	24.892	46.023	32.825	-9801.4	1.7065
350.00	25.580	1308.5	36.716	-11542.	1.7225
400.00	26.147	2602.1	40.170	-13466.	1.7584
450.00	26.661	3922.4	43.279	-15553.	1.8053
500.00	27.158	5267.9	46.114	-17789.	1.8584
550.00	27.658	6638.3	48.726	-20161.	1.9147
600.00	28.174	8034.0	51.154	-22659.	1.9726
650.00	28.713	9456.0	53.431	-25274.	2.0310
700.00	29.280	10906.	55.579	-28000.	2.0893
750.00	29.879	12385.	57.619	-30830.	2.1471
800.00	30.513	13894.	59.568	-33760.	2.2042
850.00	31.182	15436.	61.437	-36785.	2.2605
900.00	31.889	17013.	63.240	-39903.	2.3158
923.00	32.227	17750.	64.049	-41366.	2.3410
923.00	34.309	26227.	73.233	-41366.	2.3410
950.00	34.309	27154.	74.222	-43357.	2.3839
1000.0	34.309	28869.	75.982	-47113.	2.4608
1050.0	34.309	30584.	77.655	-50954.	2.5348
1100.0	34.309	32300.	79.252	-54877.	2.6058
1150.0	34.309	34015.	80.777	-58878.	2.6742
1200.0	34.309	35731.	82.237	-62953.	2.7402
1250.0	34.309	37446.	83.637	-67101.	2.8039
1300.0	34.309	39162.	84.983	-71316.	2.8655
1350.0	34.309	40877.	86.278	-75598.	2.9250
1400.0	34.309	42592.	87.526	-79943.	2.9826
1450.0	34.309	44308.	88.729	-84350.	3.0385
1500.0	34.309	46023.	89.893	-88816.	3.0928
1550.0	34.309	47739.	91.018	-93338.	3.1454
1600.0	34.309	49454.	92.107	-97917.	3.1966
1650.0	34.309	51170.	93.163	-1.02549E+05	3.2463
1700.0	34.309	52885.	94.187	-1.07232E+05	3.2948
1750.0	34.309	54601.	95.181	-1.11967E+05	3.3419
1800.0	34.309	56316.	96.148	-1.16750E+05	3.3879
1850.0	34.309	58031.	97.088	-1.21581E+05	3.4327
1900.0	34.309	59747.	98.003	-1.26458E+05	3.4765
1950.0	34.309	61462.	98.894	-1.31381E+05	3.5192
2000.0	34.309	63178.	99.763	-1.36347E+05	3.5609
2050.0	34.309	64893.	100.61	-1.41357E+05	3.6017
2100.0	34.309	66609.	101.44	-1.46408E+05	3.6416
2150.0	34.309	68324.	102.24	-1.51500E+05	3.6806
2200.0	34.309	70040.	103.03	-1.56632E+05	3.7188
2250.0	34.309	71755.	103.80	-1.61803E+05	3.7562
2300.0	34.309	73470.	104.56	-1.67012E+05	3.7929
2350.0	34.309	75186.	105.30	-1.72259E+05	3.8288
2400.0	34.309	76901.	106.02	-1.77542E+05	3.8640
2450.0	34.309	78617.	106.73	-1.82860E+05	3.8985
2500.0	34.309	80332.	107.42	-1.88214E+05	3.9324
2550.0	34.309	82048.	108.10	-1.93602E+05	3.9657
2600.0	34.309	83763.	108.76	-1.99023E+05	3.9983
2650.0	34.309	85478.	109.42	-2.04478E+05	4.0304
2700.0	34.309	87194.	110.06	-2.09965E+05	4.0619
2750.0	34.309	88909.	110.69	-2.15484E+05	4.0929
2800.0	34.309	90625.	111.31	-2.21034E+05	4.1233
2850.0	34.309	92340.	111.91	-2.26614E+05	4.1533
2900.0	34.309	94056.	112.51	-2.32225E+05	4.1827
2950.0	34.309	95771.	113.10	-2.37865E+05	4.2117
3000.0	34.309	97487.	113.67	-2.43534E+05	4.2402

MgCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.813	-54705.	233.42	-1.24299E+05	21.776
300.00	34.845	-54641.	233.64	-1.24731E+05	21.717
350.00	35.544	-52880.	239.06	-1.36552E+05	20.379
400.00	36.009	-51090.	243.84	-1.48627E+05	19.408
450.00	36.339	-49281.	248.10	-1.60927E+05	18.679
500.00	36.585	-47458.	251.95	-1.73430E+05	18.118
550.00	36.777	-45623.	255.44	-1.86116E+05	17.675
600.00	36.931	-43780.	258.65	-1.98969E+05	17.321
650.00	37.059	-41931.	261.61	-2.11977E+05	17.034
700.00	37.169	-40075.	264.36	-2.25127E+05	16.799
750.00	37.264	-38214.	266.93	-2.38410E+05	16.604
800.00	37.349	-36349.	269.34	-2.51817E+05	16.442
850.00	37.426	-34479.	271.60	-2.65341E+05	16.305
900.00	37.497	-32606.	273.74	-2.78975E+05	16.191
950.00	37.563	-30730.	275.77	-2.92713E+05	16.094
1000.0	37.625	-28850.	277.70	-3.06551E+05	16.012
1050.0	37.684	-26967.	279.54	-3.20482E+05	15.943
1100.0	37.741	-25081.	281.29	-3.34503E+05	15.884
1150.0	37.795	-23193.	282.97	-3.48610E+05	15.834
1200.0	37.848	-21302.	284.58	-3.62799E+05	15.792
1250.0	37.900	-19408.	286.13	-3.77067E+05	15.756
1300.0	37.950	-17512.	287.61	-3.91411E+05	15.727
1350.0	38.000	-15613.	289.05	-4.05827E+05	15.702
1400.0	38.049	-13712.	290.43	-4.20315E+05	15.682
1450.0	38.097	-11808.	291.77	-4.34870E+05	15.665
1500.0	38.145	-9902.3	293.06	-4.49491E+05	15.652
1550.0	38.192	-7993.9	294.31	-4.64175E+05	15.642
1600.0	38.240	-6083.1	295.52	-4.78921E+05	15.635
1650.0	38.287	-4169.9	296.70	-4.93727E+05	15.630
1700.0	38.333	-2254.4	297.84	-5.08591E+05	15.627
1750.0	38.380	-336.60	298.96	-5.23511E+05	15.626
1800.0	38.427	1583.6	300.04	-5.38486E+05	15.626
1850.0	38.473	3506.1	301.09	-5.53514E+05	15.628
1900.0	38.520	5430.9	302.12	-5.68594E+05	15.631
1950.0	38.567	7358.1	303.12	-5.83726E+05	15.636
2000.0	38.614	9287.6	304.10	-5.98906E+05	15.641
2050.0	38.661	11219.	305.05	-6.14135E+05	15.648
2100.0	38.708	13154.	305.98	-6.29411E+05	15.655
2150.0	38.755	15090.	306.89	-6.44733E+05	15.664
2200.0	38.802	17029.	307.79	-6.60100E+05	15.672
2250.0	38.849	18970.	308.66	-6.75511E+05	15.682
2300.0	38.897	20914.	309.51	-6.90965E+05	15.692
2350.0	38.945	22860.	310.35	-7.06462E+05	15.702
2400.0	38.993	24809.	311.17	-7.22000E+05	15.714
2450.0	39.041	26759.	311.97	-7.37579E+05	15.725
2500.0	39.090	28713.	312.76	-7.53197E+05	15.737
2550.0	39.143	30668.	313.54	-7.68855E+05	15.749
2600.0	39.198	32627.	314.30	-7.84551E+05	15.761
2650.0	39.255	34588.	315.05	-8.00285E+05	15.774
2700.0	39.312	36552.	315.78	-8.16055E+05	15.787
2750.0	39.371	38520.	316.50	-8.31862E+05	15.800
2800.0	39.431	40490.	317.21	-8.47705E+05	15.814
2850.0	39.490	42463.	317.91	-8.63584E+05	15.827
2900.0	39.551	44439.	318.60	-8.79496E+05	15.841
2950.0	39.611	46418.	319.27	-8.95443E+05	15.855
3000.0	39.671	48400.	319.94	-9.11424E+05	15.869

MgCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.099	-3.92459E+05	277.02	-4.75054E+05	83.225
300.00	57.152	-3.92354E+05	277.38	-4.75566E+05	82.801
350.00	58.297	-3.89465E+05	286.28	-4.89663E+05	73.076
400.00	59.086	-3.86530E+05	294.12	-5.04177E+05	65.837
450.00	59.661	-3.83560E+05	301.11	-5.19060E+05	60.249
500.00	60.101	-3.80566E+05	307.42	-5.34276E+05	55.814
550.00	60.447	-3.77552E+05	313.17	-5.49793E+05	52.214
600.00	60.727	-3.74522E+05	318.44	-5.65585E+05	49.237
650.00	60.957	-3.71480E+05	323.31	-5.81630E+05	46.739
700.00	61.147	-3.68427E+05	327.83	-5.97910E+05	44.615
750.00	61.304	-3.65366E+05	332.06	-6.14409E+05	42.790
800.00	61.435	-3.62297E+05	336.02	-6.31111E+05	41.206
850.00	61.543	-3.59223E+05	339.75	-6.48006E+05	39.821
900.00	61.629	-3.56143E+05	343.27	-6.65083E+05	38.599
950.00	61.697	-3.53060E+05	346.60	-6.82330E+05	37.516
1000.0	61.747	-3.49974E+05	349.77	-6.99740E+05	36.550
1050.0	61.803	-3.46885E+05	352.78	-7.17304E+05	35.683
1100.0	61.852	-3.43794E+05	355.66	-7.35015E+05	34.902
1150.0	61.894	-3.40700E+05	358.41	-7.52868E+05	34.195
1200.0	61.932	-3.37604E+05	361.04	-7.70854E+05	33.554
1250.0	61.965	-3.34507E+05	363.57	-7.88970E+05	32.968
1300.0	61.994	-3.31408E+05	366.00	-8.07210E+05	32.433
1350.0	62.020	-3.28308E+05	368.34	-8.25569E+05	31.942
1400.0	62.043	-3.25206E+05	370.60	-8.44042E+05	31.491
1450.0	62.064	-3.22103E+05	372.77	-8.62627E+05	31.074
1500.0	62.083	-3.19000E+05	374.88	-8.81319E+05	30.689
1550.0	62.100	-3.15895E+05	376.92	-9.00114E+05	30.333
1600.0	62.116	-3.12790E+05	378.89	-9.19009E+05	30.002
1650.0	62.130	-3.09684E+05	380.80	-9.38002E+05	29.694
1700.0	62.143	-3.06577E+05	382.65	-9.57088E+05	29.407
1750.0	62.154	-3.03469E+05	384.46	-9.76266E+05	29.139
1800.0	62.165	-3.00361E+05	386.21	-9.95533E+05	28.889
1850.0	62.175	-2.97253E+05	387.91	-1.01489E+06	28.655
1900.0	62.185	-2.94144E+05	389.57	-1.03432E+06	28.435
1950.0	62.193	-2.91034E+05	391.18	-1.05384E+06	28.229
2000.0	62.201	-2.87924E+05	392.76	-1.07344E+06	28.035
2050.0	62.208	-2.84814E+05	394.29	-1.09312E+06	27.852
2100.0	62.215	-2.81704E+05	395.79	-1.11287E+06	27.680
2150.0	62.222	-2.78593E+05	397.26	-1.13270E+06	27.518
2200.0	62.228	-2.75481E+05	398.69	-1.15259E+06	27.365
2250.0	62.233	-2.72370E+05	400.09	-1.17256E+06	27.221
2300.0	62.238	-2.69258E+05	401.45	-1.19260E+06	27.084
2350.0	62.243	-2.66146E+05	402.79	-1.21271E+06	26.955
2400.0	62.248	-2.63034E+05	404.10	-1.23288E+06	26.832
2450.0	62.252	-2.59921E+05	405.39	-1.25312E+06	26.716
2500.0	62.256	-2.56809E+05	406.64	-1.27342E+06	26.606
2550.0	62.260	-2.53696E+05	407.88	-1.29378E+06	26.501
2600.0	62.264	-2.50583E+05	409.09	-1.31421E+06	26.402
2650.0	62.267	-2.47469E+05	410.27	-1.33469E+06	26.308
2700.0	62.271	-2.44356E+05	411.44	-1.35523E+06	26.218
2750.0	62.274	-2.41242E+05	412.58	-1.37583E+06	26.133
2800.0	62.277	-2.38128E+05	413.70	-1.39649E+06	26.051
2850.0	62.279	-2.35015E+05	414.80	-1.41720E+06	25.974
2900.0	62.282	-2.31901E+05	415.89	-1.43797E+06	25.900
2950.0	62.284	-2.28786E+05	416.95	-1.45879E+06	25.830
3000.0	62.287	-2.25672E+05	418.00	-1.47967E+06	25.763

MgBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.667	6164.0	244.97	-66874.	11.716
300.00	35.689	6230.0	245.19	-67328.	11.723
350.00	36.174	8027.4	250.73	-79729.	11.899
400.00	36.502	9844.8	255.59	-92390.	12.065
450.00	36.739	11676.	259.90	-1.05279E+05	12.220
500.00	36.919	13518.	263.78	-1.18373E+05	12.366
550.00	37.062	15367.	267.31	-1.31651E+05	12.503
600.00	37.180	17224.	270.54	-1.45098E+05	12.632
650.00	37.281	19085.	273.52	-1.58700E+05	12.753
700.00	37.369	20951.	276.28	-1.72446E+05	12.868
750.00	37.449	22822.	278.86	-1.86326E+05	12.977
800.00	37.521	24696.	281.28	-2.00330E+05	13.080
850.00	37.588	26574.	283.56	-2.14452E+05	13.178
900.00	37.651	28455.	285.71	-2.28684E+05	13.272
950.00	37.711	30339.	287.75	-2.43021E+05	13.362
1000.0	37.769	32226.	289.68	-2.57457E+05	13.448
1050.0	37.824	34116.	291.53	-2.71987E+05	13.530
1100.0	37.878	36008.	293.29	-2.86608E+05	13.610
1150.0	37.931	37904.	294.97	-3.01315E+05	13.686
1200.0	37.983	39801.	296.59	-3.16104E+05	13.759
1250.0	38.035	41702.	298.14	-3.30973E+05	13.830
1300.0	38.086	43605.	299.63	-3.45917E+05	13.899
1350.0	38.136	45510.	301.07	-3.60935E+05	13.965
1400.0	38.186	47419.	302.46	-3.76023E+05	14.029
1450.0	38.236	49329.	303.80	-3.91180E+05	14.091
1500.0	38.286	51242.	305.10	-4.06403E+05	14.152
1550.0	38.335	53158.	306.35	-4.21689E+05	14.210
1600.0	38.385	55076.	307.57	-4.37037E+05	14.267
1650.0	38.435	56996.	308.75	-4.52445E+05	14.323
1700.0	38.485	58919.	309.90	-4.67912E+05	14.377
1750.0	38.535	60845.	311.02	-4.83435E+05	14.429
1800.0	38.585	62773.	312.10	-4.99013E+05	14.481
1850.0	38.635	64703.	313.16	-5.14645E+05	14.531
1900.0	38.686	66636.	314.19	-5.30329E+05	14.579
1950.0	38.737	68572.	315.20	-5.46064E+05	14.627
2000.0	38.788	70510.	316.18	-5.61848E+05	14.674
2050.0	38.839	72451.	317.14	-5.77681E+05	14.719
2100.0	38.890	74394.	318.07	-5.93561E+05	14.764
2150.0	38.942	76340.	318.99	-6.09488E+05	14.807
2200.0	38.994	78288.	319.89	-6.25460E+05	14.850
2250.0	39.047	80239.	320.76	-6.41476E+05	14.892
2300.0	39.099	82193.	321.62	-6.57536E+05	14.933
2350.0	39.152	84149.	322.46	-6.73638E+05	14.973
2400.0	39.206	86108.	323.29	-6.89782E+05	15.012
2450.0	39.259	88069.	324.10	-7.05967E+05	15.051
2500.0	39.313	90034.	324.89	-7.22191E+05	15.089
2550.0	39.367	92001.	325.67	-7.38455E+05	15.126
2600.0	39.422	93971.	326.43	-7.54758E+05	15.163
2650.0	39.477	95943.	327.19	-7.71099E+05	15.199
2700.0	39.532	97918.	327.92	-7.87476E+05	15.234
2750.0	39.588	99896.	328.65	-8.03891E+05	15.269
2800.0	39.644	1.01877E+05	329.36	-8.20341E+05	15.303
2850.0	39.701	1.03861E+05	330.07	-8.36827E+05	15.337
2900.0	39.757	1.05847E+05	330.76	-8.53348E+05	15.370
2950.0	39.815	1.07836E+05	331.44	-8.69902E+05	15.403
3000.0	39.872	1.09829E+05	332.11	-8.86491E+05	15.435

MgBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	58.494	-3.06743E+05	296.43	-3.95123E+05	69.222
300.00	58.540	-3.06635E+05	296.79	-3.95671E+05	68.891
350.00	59.517	-3.03681E+05	305.89	-4.10744E+05	61.299
400.00	60.153	-3.00689E+05	313.88	-4.26242E+05	55.660
450.00	60.590	-2.97669E+05	321.00	-4.42117E+05	51.318
500.00	60.903	-2.94632E+05	327.40	-4.58330E+05	47.880
550.00	61.136	-2.91580E+05	333.21	-4.74847E+05	45.096
600.00	61.315	-2.88519E+05	338.54	-4.91643E+05	42.800
650.00	61.454	-2.85450E+05	343.45	-5.08694E+05	40.878
700.00	61.565	-2.82374E+05	348.01	-5.25982E+05	39.248
750.00	61.656	-2.79293E+05	352.26	-5.43491E+05	37.851
800.00	61.730	-2.76209E+05	356.24	-5.61204E+05	36.642
850.00	61.793	-2.73121E+05	359.99	-5.79111E+05	35.587
900.00	61.846	-2.70030E+05	363.52	-5.97200E+05	34.660
950.00	61.891	-2.66936E+05	366.87	-6.15460E+05	33.840
1000.0	61.930	-2.63841E+05	370.04	-6.33884E+05	33.110
1050.0	61.964	-2.60743E+05	373.07	-6.52462E+05	32.457
1100.0	61.994	-2.57644E+05	375.95	-6.71188E+05	31.871
1150.0	62.020	-2.54544E+05	378.70	-6.90055E+05	31.342
1200.0	62.044	-2.51442E+05	381.34	-7.09056E+05	30.864
1250.0	62.065	-2.48340E+05	383.88	-7.28187E+05	30.429
1300.0	62.084	-2.45236E+05	386.31	-7.47442E+05	30.032
1350.0	62.101	-2.42131E+05	388.66	-7.66817E+05	29.669
1400.0	62.117	-2.39026E+05	390.91	-7.86307E+05	29.337
1450.0	62.131	-2.35919E+05	393.10	-8.05907E+05	29.031
1500.0	62.145	-2.32813E+05	395.20	-8.25615E+05	28.750
1550.0	62.157	-2.29705E+05	397.24	-8.45426E+05	28.490
1600.0	62.168	-2.26597E+05	399.21	-8.65338E+05	28.250
1650.0	62.178	-2.23488E+05	401.13	-8.85347E+05	28.027
1700.0	62.188	-2.20379E+05	402.98	-9.05450E+05	27.820
1750.0	62.197	-2.17269E+05	404.79	-9.25644E+05	27.628
1800.0	62.206	-2.14159E+05	406.54	-9.45927E+05	27.449
1850.0	62.214	-2.11049E+05	408.24	-9.66297E+05	27.283
1900.0	62.221	-2.07938E+05	409.90	-9.86751E+05	27.127
1950.0	62.228	-2.04827E+05	411.52	-1.00729E+06	26.981
2000.0	62.235	-2.01715E+05	413.09	-1.02790E+06	26.845
2050.0	62.241	-1.98603E+05	414.63	-1.04860E+06	26.718
2100.0	62.247	-1.95491E+05	416.13	-1.06936E+06	26.598
2150.0	62.252	-1.92379E+05	417.59	-1.09021E+06	26.486
2200.0	62.258	-1.89266E+05	419.03	-1.11112E+06	26.381
2250.0	62.263	-1.86153E+05	420.43	-1.13211E+06	26.282
2300.0	62.268	-1.83040E+05	421.79	-1.15317E+06	26.189
2350.0	62.272	-1.79926E+05	423.13	-1.17429E+06	26.101
2400.0	62.277	-1.76812E+05	424.44	-1.19548E+06	26.018
2450.0	62.281	-1.73698E+05	425.73	-1.21673E+06	25.940
2500.0	62.285	-1.70584E+05	426.99	-1.23805E+06	25.867
2550.0	62.289	-1.67470E+05	428.22	-1.25943E+06	25.798
2600.0	62.292	-1.64355E+05	429.43	-1.28087E+06	25.732
2650.0	62.296	-1.61241E+05	430.62	-1.30237E+06	25.671
2700.0	62.299	-1.58126E+05	431.78	-1.32393E+06	25.612
2750.0	62.302	-1.55011E+05	432.92	-1.34555E+06	25.557
2800.0	62.305	-1.51896E+05	434.05	-1.36723E+06	25.505
2850.0	62.308	-1.48780E+05	435.15	-1.38896E+06	25.456
2900.0	62.311	-1.45665E+05	436.23	-1.41074E+06	25.410
2950.0	62.314	-1.42549E+05	437.30	-1.43258E+06	25.366
3000.0	62.316	-1.39434E+05	438.35	-1.45447E+06	25.324

(MgBr2) 2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	129.01	-7.67764E+05	461.34	-9.05313E+05	158.60
300.00	129.06	-7.67525E+05	462.14	-9.06167E+05	157.77
350.00	130.11	-7.61044E+05	482.12	-9.29786E+05	138.76
400.00	130.79	-7.54521E+05	499.54	-9.54336E+05	124.62
450.00	131.25	-7.47969E+05	514.97	-9.79707E+05	113.72
500.00	131.59	-7.41397E+05	528.82	-1.00581E+06	105.07
550.00	131.83	-7.34812E+05	541.37	-1.03257E+06	98.063
600.00	132.02	-7.28215E+05	552.85	-1.05993E+06	92.272
650.00	132.17	-7.21610E+05	563.43	-1.08784E+06	87.417
700.00	132.28	-7.14999E+05	573.23	-1.11626E+06	83.294
750.00	132.38	-7.08382E+05	582.36	-1.14515E+06	79.753
800.00	132.45	-7.01762E+05	590.90	-1.17448E+06	76.684
850.00	132.52	-6.95137E+05	598.93	-1.20423E+06	74.001
900.00	132.57	-6.88510E+05	606.51	-1.23437E+06	71.639
950.00	132.62	-6.81880E+05	613.68	-1.26487E+06	69.546
1000.0	132.66	-6.75248E+05	620.48	-1.29573E+06	67.680
1050.0	132.69	-6.68615E+05	626.95	-1.32692E+06	66.009
1100.0	132.72	-6.61979E+05	633.13	-1.35842E+06	64.504
1150.0	132.74	-6.55343E+05	639.03	-1.39023E+06	63.144
1200.0	132.77	-6.48705E+05	644.68	-1.42232E+06	61.910
1250.0	132.79	-6.42066E+05	650.10	-1.45469E+06	60.787
1300.0	132.80	-6.35427E+05	655.31	-1.48733E+06	59.760
1350.0	132.82	-6.28786E+05	660.32	-1.52022E+06	58.819
1400.0	132.83	-6.22145E+05	665.15	-1.55335E+06	57.955
1450.0	132.85	-6.15503E+05	669.81	-1.58673E+06	57.159
1500.0	132.86	-6.08860E+05	674.32	-1.62033E+06	56.424
1550.0	132.87	-6.02217E+05	678.67	-1.65416E+06	55.743
1600.0	132.88	-5.95573E+05	682.89	-1.68820E+06	55.113
1650.0	132.89	-5.88929E+05	686.98	-1.72244E+06	54.527
1700.0	132.90	-5.82284E+05	690.95	-1.75689E+06	53.981
1750.0	132.90	-5.75639E+05	694.80	-1.79154E+06	53.473
1800.0	132.91	-5.68994E+05	698.54	-1.82637E+06	52.999
1850.0	132.92	-5.62349E+05	702.18	-1.86139E+06	52.555
1900.0	132.92	-5.55703E+05	705.73	-1.89659E+06	52.140
1950.0	132.93	-5.49056E+05	709.18	-1.93196E+06	51.750
2000.0	132.93	-5.42410E+05	712.55	-1.96751E+06	51.385
2050.0	132.94	-5.35763E+05	715.83	-2.00321E+06	51.041
2100.0	132.94	-5.29116E+05	719.03	-2.03909E+06	50.718
2150.0	132.94	-5.22469E+05	722.16	-2.07512E+06	50.414
2200.0	132.95	-5.15822E+05	725.22	-2.11130E+06	50.127
2250.0	132.95	-5.09174E+05	728.21	-2.14764E+06	49.857
2300.0	132.96	-5.02527E+05	731.13	-2.18412E+06	49.602
2350.0	132.96	-4.95879E+05	733.99	-2.22075E+06	49.360
2400.0	132.96	-4.89231E+05	736.79	-2.25752E+06	49.132
2450.0	132.96	-4.82583E+05	739.53	-2.29443E+06	48.917
2500.0	132.97	-4.75934E+05	742.21	-2.33147E+06	48.712
2550.0	132.97	-4.69286E+05	744.85	-2.36865E+06	48.519
2600.0	132.97	-4.62637E+05	747.43	-2.40595E+06	48.335
2650.0	132.97	-4.55989E+05	749.96	-2.44339E+06	48.161
2700.0	132.98	-4.49340E+05	752.45	-2.48095E+06	47.996
2750.0	132.98	-4.42691E+05	754.89	-2.51863E+06	47.839
2800.0	132.98	-4.36042E+05	757.28	-2.55644E+06	47.690
2850.0	132.98	-4.29393E+05	759.64	-2.59436E+06	47.548
2900.0	132.98	-4.22744E+05	761.95	-2.63240E+06	47.413
2950.0	132.99	-4.16094E+05	764.22	-2.67056E+06	47.285
3000.0	132.99	-4.09445E+05	766.46	-2.70882E+06	47.164

MgClF<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	49.917	-5.69024E+05	262.68	-6.47342E+05	113.41
300.00	49.990	-5.68932E+05	262.99	-6.47829E+05	112.79
350.00	51.632	-5.66389E+05	270.83	-6.61178E+05	98.673
400.00	52.817	-5.63776E+05	277.80	-6.74897E+05	88.130
450.00	53.719	-5.61112E+05	284.08	-6.88947E+05	79.969
500.00	54.431	-5.58407E+05	289.78	-7.03295E+05	73.471
550.00	55.005	-5.55671E+05	294.99	-7.17916E+05	68.180
600.00	55.473	-5.52909E+05	299.80	-7.32788E+05	63.793
650.00	55.855	-5.50125E+05	304.25	-7.47890E+05	60.100
700.00	56.163	-5.47324E+05	308.41	-7.63208E+05	56.950
750.00	56.407	-5.44510E+05	312.29	-7.78726E+05	54.234
800.00	56.593	-5.41685E+05	315.94	-7.94433E+05	51.870
850.00	56.770	-5.38850E+05	319.37	-8.10316E+05	49.795
900.00	56.919	-5.36008E+05	322.62	-8.26367E+05	47.960
950.00	57.045	-5.33159E+05	325.70	-8.42576E+05	46.327
1000.0	57.154	-5.30304E+05	328.63	-8.58934E+05	44.865
1050.0	57.247	-5.27444E+05	331.42	-8.75436E+05	43.549
1100.0	57.328	-5.24579E+05	334.09	-8.92075E+05	42.360
1150.0	57.399	-5.21711E+05	336.64	-9.08843E+05	41.280
1200.0	57.462	-5.18839E+05	339.08	-9.25736E+05	40.295
1250.0	57.518	-5.15965E+05	341.43	-9.42750E+05	39.394
1300.0	57.567	-5.13088E+05	343.68	-9.59878E+05	38.567
1350.0	57.611	-5.10208E+05	345.86	-9.77117E+05	37.806
1400.0	57.651	-5.07327E+05	347.95	-9.94462E+05	37.103
1450.0	57.687	-5.04443E+05	349.98	-1.01191E+06	36.452
1500.0	57.719	-5.01558E+05	351.93	-1.02946E+06	35.848
1550.0	57.749	-4.98671E+05	353.83	-1.04710E+06	35.286
1600.0	57.776	-4.95783E+05	355.66	-1.06484E+06	34.763
1650.0	57.800	-4.92894E+05	357.44	-1.08267E+06	34.274
1700.0	57.823	-4.90003E+05	359.16	-1.10058E+06	33.816
1750.0	57.844	-4.87112E+05	360.84	-1.11858E+06	33.387
1800.0	57.863	-4.84219E+05	362.47	-1.13667E+06	32.984
1850.0	57.881	-4.81325E+05	364.06	-1.15483E+06	32.606
1900.0	57.897	-4.78431E+05	365.60	-1.17307E+06	32.249
1950.0	57.912	-4.75536E+05	367.10	-1.19139E+06	31.913
2000.0	57.927	-4.72640E+05	368.57	-1.20978E+06	31.595
2050.0	57.940	-4.69743E+05	370.00	-1.22825E+06	31.295
2100.0	57.952	-4.66846E+05	371.40	-1.24678E+06	31.011
2150.0	57.964	-4.63948E+05	372.76	-1.26539E+06	30.742
2200.0	57.974	-4.61049E+05	374.09	-1.28406E+06	30.487
2250.0	57.984	-4.58150E+05	375.40	-1.30279E+06	30.244
2300.0	57.994	-4.55251E+05	376.67	-1.32160E+06	30.014
2350.0	58.003	-4.52351E+05	377.92	-1.34046E+06	29.794
2400.0	58.011	-4.49451E+05	379.14	-1.35939E+06	29.586
2450.0	58.019	-4.46550E+05	380.34	-1.37837E+06	29.387
2500.0	58.027	-4.43649E+05	381.51	-1.39742E+06	29.197
2550.0	58.034	-4.40747E+05	382.66	-1.41653E+06	29.016
2600.0	58.040	-4.37845E+05	383.79	-1.43569E+06	28.843
2650.0	58.046	-4.34943E+05	384.89	-1.45490E+06	28.677
2700.0	58.052	-4.32041E+05	385.98	-1.47418E+06	28.519
2750.0	58.058	-4.29138E+05	387.04	-1.49350E+06	28.367
2800.0	58.063	-4.26235E+05	388.09	-1.51288E+06	28.222
2850.0	58.068	-4.23332E+05	389.11	-1.53231E+06	28.083
2900.0	58.073	-4.20428E+05	390.12	-1.55179E+06	27.950
2950.0	58.077	-4.17524E+05	391.12	-1.57132E+06	27.822
3000.0	58.081	-4.14620E+05	392.09	-1.59090E+06	27.699

MgCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	76.108	-1.09600E+06	65.090	-1.11541E+06	195.41
300.00	76.426	-1.09586E+06	65.562	-1.11553E+06	194.23
350.00	83.899	-1.09184E+06	77.929	-1.11912E+06	167.01
400.00	89.872	-1.08749E+06	89.535	-1.12331E+06	146.69
450.00	94.973	-1.08287E+06	100.42	-1.12806E+06	130.94
500.00	99.532	-1.07801E+06	110.67	-1.13334E+06	118.40
550.00	103.74	-1.07292E+06	120.35	-1.13912E+06	108.18
600.00	107.70	-1.06764E+06	129.55	-1.14537E+06	99.710
650.00	111.50	-1.06215E+06	138.32	-1.15206E+06	92.579
700.00	115.17	-1.05649E+06	146.72	-1.15919E+06	86.498
750.00	118.75	-1.05064E+06	154.79	-1.16673E+06	81.256
800.00	122.26	-1.04461E+06	162.57	-1.17467E+06	76.696
850.00	125.72	-1.03841E+06	170.08	-1.18298E+06	72.695
900.00	129.14	-1.03204E+06	177.36	-1.19167E+06	69.161
950.00	132.52	-1.02550E+06	184.44	-1.20072E+06	66.018
1000.0	135.88	-1.01879E+06	191.32	-1.21011E+06	63.208
1050.0	139.21	-1.01191E+06	198.03	-1.21985E+06	60.682
1100.0	142.53	-1.00487E+06	204.58	-1.22991E+06	58.402
1150.0	145.83	-9.97662E+05	210.99	-1.24030E+06	56.335
1200.0	149.12	-9.90288E+05	217.27	-1.25101E+06	54.454
1250.0	152.39	-9.82750E+05	223.42	-1.26203E+06	52.736
1263.0	153.25	-9.80764E+05	225.00	-1.26494E+06	52.314
1263.0	150.00	-9.21763E+05	271.72	-1.26494E+06	52.314
1300.0	150.00	-9.16213E+05	276.05	-1.27508E+06	51.232
1350.0	150.00	-9.08713E+05	281.71	-1.28902E+06	49.874
1400.0	150.00	-9.01213E+05	287.16	-1.30324E+06	48.623
1450.0	150.00	-8.93713E+05	292.43	-1.31773E+06	47.469
1500.0	150.00	-8.86213E+05	297.51	-1.33248E+06	46.400

MgB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	47.823	-91964.	35.982	-1.02692E+05	17.991
300.00	47.982	-91876.	36.278	-1.02759E+05	17.892
350.00	51.582	-89382.	43.960	-1.04768E+05	15.635
400.00	54.274	-86732.	51.032	-1.07145E+05	13.991
450.00	56.442	-83963.	57.553	-1.09862E+05	12.752
500.00	58.287	-81094.	63.598	-1.12892E+05	11.793
550.00	59.925	-78138.	69.231	-1.16215E+05	11.037
600.00	61.424	-75103.	74.510	-1.19810E+05	10.430
650.00	62.829	-71997.	79.483	-1.23661E+05	9.9372
700.00	64.168	-68822.	84.188	-1.27753E+05	9.5328
750.00	65.460	-65581.	88.660	-1.32076E+05	9.1983
800.00	66.718	-62276.	92.925	-1.36616E+05	8.9199
850.00	67.953	-58909.	97.007	-1.41365E+05	8.6870
900.00	69.172	-55481.	100.93	-1.46314E+05	8.4916
950.00	70.379	-51992.	104.70	-1.51455E+05	8.3274
1000.0	71.578	-48443.	108.34	-1.56781E+05	8.1892
1050.0	72.774	-44835.	111.86	-1.62287E+05	8.0731
1100.0	73.968	-41166.	115.27	-1.67966E+05	7.9758
1150.0	75.161	-37438.	118.59	-1.73812E+05	7.8946
1200.0	76.356	-33650.	121.81	-1.79823E+05	7.8273
1250.0	77.554	-29802.	124.95	-1.85992E+05	7.7720
1300.0	78.755	-25894.	128.02	-1.92317E+05	7.7272
1350.0	79.961	-21927.	131.01	-1.98793E+05	7.6916
1400.0	81.170	-17898.	133.94	-2.05417E+05	7.6640
1450.0	82.431	-13808.	136.81	-2.12186E+05	7.6436
1500.0	83.649	-9655.8	139.63	-2.19097E+05	7.6294
1550.0	84.828	-5443.7	142.39	-2.26148E+05	7.6209
1600.0	85.973	-1173.6	145.10	-2.33335E+05	7.6174
1650.0	87.085	3153.0	147.76	-2.40657E+05	7.6184
1700.0	88.167	7534.4	150.38	-2.48111E+05	7.6233
1750.0	89.222	11969.	152.95	-2.55694E+05	7.6319
1800.0	90.252	16456.	155.48	-2.63405E+05	7.6436
1850.0	91.257	20994.	157.97	-2.71241E+05	7.6583
1900.0	92.239	25582.	160.41	-2.79201E+05	7.6756
1950.0	93.200	30218.	162.82	-2.87282E+05	7.6952
2000.0	94.140	34901.	165.19	-2.95482E+05	7.7170

MgB4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	70.335	-1.05018E+05	51.923	-1.20499E+05	21.110
300.00	70.501	-1.04888E+05	52.359	-1.20595E+05	20.997
350.00	74.857	-1.01253E+05	63.556	-1.23498E+05	18.431
400.00	79.003	-97406.	73.825	-1.26936E+05	16.576
450.00	82.960	-93356.	83.360	-1.30868E+05	15.190
500.00	86.743	-89112.	92.298	-1.35262E+05	14.130
550.00	90.357	-84684.	100.74	-1.40089E+05	13.304
600.00	93.808	-80079.	108.75	-1.45328E+05	12.652
650.00	97.099	-75306.	116.39	-1.50958E+05	12.131
700.00	100.23	-70372.	123.70	-1.56961E+05	11.712
750.00	103.20	-65286.	130.72	-1.63323E+05	11.375
800.00	106.02	-60055.	137.47	-1.70029E+05	11.101
850.00	108.68	-54686.	143.98	-1.77066E+05	10.881
900.00	111.18	-49189.	150.26	-1.84423E+05	10.703
950.00	113.53	-43571.	156.33	-1.92088E+05	10.561
1000.0	115.73	-37839.	162.21	-2.00053E+05	10.449
1050.0	117.64	-32004.	167.91	-2.08306E+05	10.362
1100.0	119.45	-26077.	173.42	-2.16840E+05	10.297
1150.0	121.18	-20060.	178.77	-2.25646E+05	10.249
1200.0	122.83	-13960.	183.96	-2.34715E+05	10.217
1250.0	124.41	-7778.2	189.01	-2.44040E+05	10.198
1300.0	125.92	-1519.6	193.92	-2.53613E+05	10.190
1350.0	127.36	4812.5	198.70	-2.63429E+05	10.192
1400.0	128.73	11215.	203.35	-2.73481E+05	10.203
1450.0	130.04	17684.	207.89	-2.83763E+05	10.222
1500.0	131.28	24218.	212.32	-2.94269E+05	10.247
1550.0	132.47	30812.	216.65	-3.04994E+05	10.278
1600.0	133.60	37464.	220.87	-3.15932E+05	10.314
1650.0	134.67	44171.	225.00	-3.27079E+05	10.354
1700.0	135.68	50930.	229.04	-3.38430E+05	10.398
1750.0	136.63	57738.	232.98	-3.49981E+05	10.446
1800.0	137.53	64592.	236.84	-3.61727E+05	10.497
1850.0	138.38	71490.	240.62	-3.73664E+05	10.550
1900.0	139.16	78429.	244.32	-3.85788E+05	10.606
1950.0	139.90	85406.	247.95	-3.98095E+05	10.664
2000.0	140.58	92418.	251.50	-4.10582E+05	10.723

Mn

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.274	0.00000E+00	32.221	-9606.6	1.6830
300.00	26.320	48.649	32.383	-9666.3	1.6830
350.00	27.464	1394.0	36.529	-11391.	1.7000
400.00	28.465	2792.7	40.263	-13312.	1.7384
450.00	29.383	4239.2	43.669	-15412.	1.7889
500.00	30.248	5730.1	46.810	-17675.	1.8464
550.00	31.080	7263.4	49.732	-20089.	1.9079
600.00	31.888	8837.7	52.471	-22645.	1.9714
650.00	32.680	10452.	55.055	-25334.	2.0358
700.00	33.460	12106.	57.505	-28148.	2.1004
750.00	34.232	13798.	59.840	-31082.	2.1647
800.00	34.997	15529.	62.074	-34131.	2.2284
850.00	35.757	17297.	64.219	-37288.	2.2914
900.00	36.512	19104.	66.284	-40551.	2.3535
950.00	37.265	20949.	68.278	-43916.	2.4146
980.00	37.715	22073.	69.444	-45981.	2.4508
980.00	36.166	24327.	71.743	-45981.	2.4508
1000.0	36.405	25053.	72.476	-47424.	2.4771
1050.0	37.002	26888.	74.267	-51092.	2.5416
1100.0	37.596	28753.	76.002	-54849.	2.6045
1150.0	38.190	30647.	77.686	-58692.	2.6658
1200.0	38.782	32572.	79.324	-62617.	2.7256
1250.0	39.373	34526.	80.919	-66623.	2.7840
1300.0	39.963	36509.	82.475	-70708.	2.8410
1350.0	40.552	38522.	83.994	-74870.	2.8968
1360.0	40.670	38928.	84.294	-75712.	2.9079
1360.0	40.796	41094.	85.886	-75712.	2.9079
1400.0	41.276	42735.	87.076	-79171.	2.9538
1411.0	41.408	43190.	87.399	-80131.	2.9663
1411.0	44.673	45098.	88.752	-80131.	2.9663
1450.0	45.253	46852.	89.978	-83616.	3.0121
1500.0	45.996	49133.	91.524	-88154.	3.0697
1519.0	46.276	50009.	92.105	-89898.	3.0913
1519.0	48.000	62918.	100.60	-89898.	3.0913
1550.0	48.000	64406.	101.57	-93032.	3.1351
1600.0	48.000	66806.	103.10	-98149.	3.2042
1650.0	48.000	69206.	104.57	-1.03341E+05	3.2714
1700.0	48.000	71606.	106.01	-1.08606E+05	3.3370
1750.0	48.000	74006.	107.40	-1.13941E+05	3.4009
1800.0	48.000	76406.	108.75	-1.19345E+05	3.4632
1850.0	48.000	78806.	110.07	-1.24815E+05	3.5241
1900.0	48.000	81206.	111.35	-1.30351E+05	3.5835
1950.0	48.000	83606.	112.59	-1.35949E+05	3.6416
2000.0	48.000	86006.	113.81	-1.41610E+05	3.6984

MnCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.749	-2.61704E+05	296.38	-3.50071E+05	61.329
300.00	57.804	-2.61597E+05	296.74	-3.50620E+05	61.047
350.00	58.972	-2.58675E+05	305.75	-3.65687E+05	54.574
400.00	59.732	-2.55707E+05	313.67	-3.81176E+05	49.775
450.00	60.255	-2.52706E+05	320.74	-3.97040E+05	46.086
500.00	60.630	-2.49684E+05	327.11	-4.13239E+05	43.170
550.00	60.908	-2.46645E+05	332.90	-4.29741E+05	40.812
600.00	61.121	-2.43594E+05	338.21	-4.46521E+05	38.872
650.00	61.288	-2.40533E+05	343.11	-4.63556E+05	37.251
700.00	61.421	-2.37466E+05	347.66	-4.80826E+05	35.879
750.00	61.529	-2.34392E+05	351.90	-4.98316E+05	34.705
800.00	61.618	-2.31313E+05	355.87	-5.16012E+05	33.691
850.00	61.693	-2.28230E+05	359.61	-5.33900E+05	32.809
900.00	61.756	-2.25144E+05	363.14	-5.51970E+05	32.035
950.00	61.810	-2.22055E+05	366.48	-5.70211E+05	31.352
1000.0	61.857	-2.18963E+05	369.65	-5.88615E+05	30.745
1050.0	61.897	-2.15869E+05	372.67	-6.07173E+05	30.204
1100.0	61.933	-2.12773E+05	375.55	-6.25880E+05	29.720
1150.0	61.965	-2.09676E+05	378.30	-6.44726E+05	29.284
1200.0	61.993	-2.06577E+05	380.94	-6.63708E+05	28.890
1250.0	62.018	-2.03477E+05	383.47	-6.82819E+05	28.533
1300.0	62.040	-2.00375E+05	385.91	-7.02054E+05	28.208
1350.0	62.061	-1.97273E+05	388.25	-7.21408E+05	27.912
1400.0	62.080	-1.94169E+05	390.51	-7.40877E+05	27.642
1450.0	62.097	-1.91065E+05	392.68	-7.60457E+05	27.394
1500.0	62.112	-1.87959E+05	394.79	-7.80145E+05	27.166
1550.0	62.127	-1.84853E+05	396.83	-7.99935E+05	26.957
1600.0	62.140	-1.81747E+05	398.80	-8.19826E+05	26.764
1650.0	62.152	-1.78639E+05	400.71	-8.39814E+05	26.586
1700.0	62.164	-1.75532E+05	402.57	-8.59896E+05	26.421
1750.0	62.174	-1.72423E+05	404.37	-8.80070E+05	26.268
1800.0	62.184	-1.69314E+05	406.12	-9.00333E+05	26.126
1850.0	62.194	-1.66205E+05	407.83	-9.20681E+05	25.995
1900.0	62.203	-1.63095E+05	409.48	-9.41114E+05	25.872
1950.0	62.211	-1.59984E+05	411.10	-9.61629E+05	25.759
2000.0	62.219	-1.56874E+05	412.67	-9.82224E+05	25.652
2050.0	62.226	-1.53763E+05	414.21	-1.00290E+06	25.553
2100.0	62.233	-1.50651E+05	415.71	-1.02364E+06	25.461
2150.0	62.240	-1.47539E+05	417.18	-1.04447E+06	25.375
2200.0	62.246	-1.44427E+05	418.61	-1.06536E+06	25.294
2250.0	62.252	-1.41315E+05	420.01	-1.08633E+06	25.219
2300.0	62.257	-1.38202E+05	421.37	-1.10736E+06	25.148
2350.0	62.263	-1.35089E+05	422.71	-1.12846E+06	25.082
2400.0	62.268	-1.31976E+05	424.02	-1.14963E+06	25.020
2450.0	62.273	-1.28862E+05	425.31	-1.17087E+06	24.963
2500.0	62.277	-1.25748E+05	426.57	-1.19216E+06	24.908
2550.0	62.282	-1.22634E+05	427.80	-1.21352E+06	24.857
2600.0	62.286	-1.19520E+05	429.01	-1.23494E+06	24.810
2650.0	62.290	-1.16406E+05	430.19	-1.25642E+06	24.765
2700.0	62.294	-1.13291E+05	431.36	-1.27796E+06	24.723
2750.0	62.297	-1.10176E+05	432.50	-1.29956E+06	24.684
2800.0	62.301	-1.07062E+05	433.62	-1.32121E+06	24.647
2850.0	62.304	-1.03946E+05	434.73	-1.34292E+06	24.612
2900.0	62.307	-1.00831E+05	435.81	-1.36468E+06	24.580
2950.0	62.310	-97716.	436.88	-1.38650E+06	24.550
3000.0	62.313	-94600.	437.92	-1.40837E+06	24.521

MnBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	55.596	-1.75310E+05	318.09	-2.70148E+05	47.328
300.00	55.663	-1.75207E+05	318.43	-2.70737E+05	47.138
350.00	57.099	-1.72385E+05	327.13	-2.86880E+05	42.813
400.00	58.059	-1.69505E+05	334.82	-3.03433E+05	39.623
450.00	58.742	-1.66584E+05	341.70	-3.20349E+05	37.184
500.00	59.254	-1.63633E+05	347.92	-3.37592E+05	35.267
550.00	59.653	-1.60660E+05	353.58	-3.55132E+05	33.727
600.00	59.975	-1.57669E+05	358.79	-3.72943E+05	32.467
650.00	60.244	-1.54664E+05	363.60	-3.91004E+05	31.421
700.00	60.473	-1.51645E+05	368.07	-4.09297E+05	30.541
750.00	60.674	-1.48617E+05	372.25	-4.27806E+05	29.794
800.00	60.852	-1.45578E+05	376.17	-4.46518E+05	29.154
850.00	61.014	-1.42532E+05	379.87	-4.65420E+05	28.601
900.00	61.162	-1.39477E+05	383.36	-4.84502E+05	28.119
950.00	61.300	-1.36416E+05	386.67	-5.03753E+05	27.698
1000.0	61.429	-1.33347E+05	389.82	-5.23166E+05	27.327
1050.0	61.552	-1.30273E+05	392.82	-5.42732E+05	26.999
1100.0	61.668	-1.27192E+05	395.68	-5.62446E+05	26.708
1150.0	61.780	-1.24106E+05	398.43	-5.82299E+05	26.448
1200.0	61.888	-1.21014E+05	401.06	-6.02287E+05	26.216
1250.0	61.993	-1.17917E+05	403.59	-6.22403E+05	26.008
1300.0	62.094	-1.14815E+05	406.02	-6.42644E+05	25.821
1350.0	62.194	-1.11708E+05	408.37	-6.63004E+05	25.653
1400.0	62.291	-1.08596E+05	410.63	-6.83479E+05	25.500
1450.0	62.386	-1.05479E+05	412.82	-7.04066E+05	25.363
1500.0	62.480	-1.02357E+05	414.94	-7.24760E+05	25.238
1550.0	62.573	-99231.	416.99	-7.45558E+05	25.125
1600.0	62.664	-96100.	418.97	-7.66457E+05	25.022
1650.0	62.754	-92965.	420.90	-7.87454E+05	24.928
1700.0	62.843	-89825.	422.78	-8.08547E+05	24.843
1750.0	62.932	-86680.	424.60	-8.29731E+05	24.766
1800.0	63.020	-83531.	426.37	-8.51006E+05	24.695
1850.0	63.107	-80378.	428.10	-8.72368E+05	24.631
1900.0	63.193	-77221.	429.79	-8.93816E+05	24.572
1950.0	63.279	-74059.	431.43	-9.15346E+05	24.519
2000.0	63.365	-70893.	433.03	-9.36958E+05	24.470

MnCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	81.533	-8.94958E+05	85.772	-9.20531E+05	161.27
300.00	81.876	-8.94807E+05	86.277	-9.20690E+05	160.30
350.00	89.606	-8.90508E+05	99.514	-9.25338E+05	138.10
400.00	95.306	-8.85879E+05	111.87	-9.30626E+05	121.52
450.00	99.826	-8.80997E+05	123.36	-9.36510E+05	108.70
500.00	103.61	-8.75909E+05	134.08	-9.42950E+05	98.507
550.00	106.92	-8.70644E+05	144.12	-9.49907E+05	90.212
600.00	109.90	-8.65222E+05	153.55	-9.57351E+05	83.343
650.00	112.65	-8.59657E+05	162.46	-9.65253E+05	77.567
700.00	115.24	-8.53960E+05	170.90	-9.73589E+05	72.648

MnB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.818	-75312.	32.426	-84980.	14.888
300.00	35.987	-75246.	32.648	-85040.	14.806
350.00	39.767	-73346.	38.497	-86820.	12.957
400.00	42.499	-71286.	43.994	-88884.	11.607
450.00	44.622	-69106.	49.127	-91213.	10.587
500.00	46.367	-66830.	53.921	-93791.	9.7980
550.00	47.865	-64474.	58.412	-96600.	9.1741
600.00	49.195	-62046.	62.635	-99628.	8.6731
650.00	50.406	-59556.	66.621	-1.02860E+05	8.2657
700.00	51.531	-57007.	70.399	-1.06286E+05	7.9310
750.00	52.592	-54404.	73.990	-1.09897E+05	7.6537
800.00	53.605	-51749.	77.417	-1.13683E+05	7.4225
850.00	54.580	-49044.	80.696	-1.17636E+05	7.2288
900.00	55.527	-46291.	83.843	-1.21750E+05	7.0660
950.00	56.450	-43492.	86.870	-1.26018E+05	6.9288
1000.0	57.354	-40647.	89.788	-1.30435E+05	6.8131
1050.0	58.243	-37757.	92.608	-1.34995E+05	6.7155
1100.0	59.120	-34823.	95.338	-1.39694E+05	6.6334
1150.0	59.986	-31845.	97.985	-1.44528E+05	6.5645
1200.0	60.843	-28824.	100.56	-1.49492E+05	6.5070

MnB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.623	-94140.	34.518	-1.04432E+05	18.296
300.00	53.706	-94041.	34.850	-1.04496E+05	18.194
350.00	55.948	-91299.	43.297	-1.06453E+05	15.887
400.00	58.191	-88446.	50.914	-1.08812E+05	14.209
450.00	60.434	-85480.	57.898	-1.11534E+05	12.946
500.00	62.676	-82403.	64.381	-1.14593E+05	11.971
550.00	64.919	-79213.	70.460	-1.17966E+05	11.203
600.00	67.162	-75911.	76.205	-1.21634E+05	10.589
650.00	69.404	-72496.	81.669	-1.25582E+05	10.092
700.00	71.647	-68970.	86.895	-1.29797E+05	9.6853
750.00	73.889	-65332.	91.914	-1.34268E+05	9.3510
800.00	76.132	-61581.	96.755	-1.38985E+05	9.0746
850.00	78.375	-57719.	101.44	-1.43940E+05	8.8453
900.00	80.617	-53744.	105.98	-1.49126E+05	8.6549
950.00	82.860	-49657.	110.40	-1.54536E+05	8.4968
1000.0	85.103	-45458.	114.71	-1.60164E+05	8.3659
1050.0	87.345	-41147.	118.91	-1.66005E+05	8.2581
1100.0	89.588	-36723.	123.03	-1.72054E+05	8.1700
1150.0	91.830	-32188.	127.06	-1.78307E+05	8.0987
1200.0	94.073	-27540.	131.02	-1.84759E+05	8.0421

Mo

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	23.876	0.00000E+00	28.560	-8515.2	1.4918
300.00	23.904	44.197	28.708	-8568.1	1.4918
350.00	24.554	1256.5	32.444	-10099.	1.5071
400.00	25.054	2497.1	35.756	-11805.	1.5416
450.00	25.467	3760.4	38.732	-13669.	1.5866
500.00	25.826	5043.0	41.434	-15674.	1.6374
550.00	26.149	6342.4	43.911	-17809.	1.6913
600.00	26.446	7657.4	46.199	-20062.	1.7465
650.00	26.725	8986.8	48.327	-22426.	1.8021
700.00	26.991	10330.	50.317	-24893.	1.8575
750.00	27.246	11686.	52.188	-27456.	1.9121
800.00	27.501	13054.	53.955	-30110.	1.9659
850.00	27.748	14436.	55.630	-32850.	2.0186
900.00	27.994	15829.	57.223	-35671.	2.0703
950.00	28.240	17235.	58.743	-38571.	2.1207
1000.0	28.490	18653.	60.198	-41544.	2.1700
1050.0	28.746	20084.	61.594	-44589.	2.2181
1100.0	29.009	21528.	62.937	-47703.	2.2652
1150.0	29.280	22985.	64.233	-50882.	2.3111
1200.0	29.560	24456.	65.485	-54126.	2.3560
1250.0	29.850	25941.	66.697	-57430.	2.3998
1300.0	30.150	27441.	67.874	-60795.	2.4427
1350.0	30.462	28957.	69.017	-64217.	2.4846
1400.0	30.793	30488.	70.131	-67696.	2.5257
1450.0	31.137	32036.	71.218	-71230.	2.5659
1500.0	31.495	33602.	72.279	-74817.	2.6053
1550.0	31.871	35186.	73.318	-78457.	2.6439
1600.0	32.267	36789.	74.336	-82149.	2.6818
1650.0	32.684	38413.	75.335	-85891.	2.7190
1700.0	33.123	40058.	76.318	-89682.	2.7555
1750.0	33.585	41726.	77.284	-93522.	2.7914
1800.0	34.073	43417.	78.237	-97410.	2.8267
1850.0	34.585	45133.	79.178	-1.01346E+05	2.8614
1900.0	35.125	46876.	80.107	-1.05328E+05	2.8956
1950.0	35.691	48646.	81.027	-1.09356E+05	2.9292
2000.0	36.285	50445.	81.938	-1.13430E+05	2.9624
2050.0	36.907	52275.	82.841	-1.17550E+05	2.9951
2100.0	37.565	54137.	83.739	-1.21714E+05	3.0274
2150.0	38.253	56032.	84.631	-1.25924E+05	3.0593
2200.0	38.974	57963.	85.518	-1.30177E+05	3.0907
2250.0	39.729	59930.	86.402	-1.34475E+05	3.1218
2300.0	40.520	61936.	87.284	-1.38818E+05	3.1526
2350.0	41.348	63983.	88.164	-1.43204E+05	3.1830
2400.0	42.215	66072.	89.044	-1.47634E+05	3.2131
2450.0	43.123	68205.	89.924	-1.52108E+05	3.2429
2500.0	44.071	70385.	90.804	-1.56626E+05	3.2724
2550.0	45.062	72613.	91.687	-1.61189E+05	3.3017
2600.0	46.097	74891.	92.572	-1.65795E+05	3.3308
2650.0	47.175	77223.	93.460	-1.70446E+05	3.3596
2700.0	48.298	79610.	94.352	-1.75141E+05	3.3882
2750.0	49.466	82054.	95.249	-1.79881E+05	3.4167
2800.0	50.681	84557.	96.151	-1.84666E+05	3.4449
2850.0	51.942	87123.	97.059	-1.89496E+05	3.4730
2896.0	53.144	89539.	97.900	-1.93980E+05	3.4987
2896.0	42.638	1.27019E+05	110.84	-1.93981E+05	3.4987
2900.0	42.638	1.27190E+05	110.90	-1.94424E+05	3.5019
2950.0	42.638	1.29322E+05	111.63	-1.99987E+05	3.5410
3000.0	42.638	1.31454E+05	112.35	-2.05587E+05	3.5795

MoCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.354	4.20000E+05	258.60	3.42898E+05	-60.073
300.00	35.382	4.20065E+05	258.82	3.42420E+05	-59.619
350.00	35.963	4.21850E+05	264.32	3.29338E+05	-49.150
400.00	36.343	4.23658E+05	269.15	3.15999E+05	-41.264
450.00	36.606	4.25483E+05	273.45	3.02432E+05	-35.105
500.00	36.798	4.27318E+05	277.31	2.88662E+05	-30.156
550.00	36.943	4.29162E+05	280.83	2.74707E+05	-26.089
600.00	37.057	4.31012E+05	284.05	2.60584E+05	-22.685
650.00	37.151	4.32867E+05	287.02	2.46306E+05	-19.793
700.00	37.229	4.34726E+05	289.77	2.31886E+05	-17.303
750.00	37.297	4.36590E+05	292.34	2.17332E+05	-15.136
800.00	37.357	4.38456E+05	294.75	2.02654E+05	-13.232
850.00	37.412	4.40325E+05	297.02	1.87859E+05	-11.544
900.00	37.462	4.42197E+05	299.16	1.72954E+05	-10.038
950.00	37.511	4.44071E+05	301.19	1.57945E+05	-8.6842
1000.0	37.557	4.45948E+05	303.11	1.42837E+05	-7.4609
1050.0	37.602	4.47827E+05	304.94	1.27636E+05	-6.3494
1100.0	37.646	4.49708E+05	306.69	1.12344E+05	-5.3347
1150.0	37.691	4.51592E+05	308.37	96968.	-4.4043
1200.0	37.735	4.53477E+05	309.97	81509.	-3.5479
1250.0	37.780	4.55365E+05	311.52	65971.	-2.7567
1300.0	37.825	4.57255E+05	313.00	50358.	-2.0234
1350.0	37.871	4.59148E+05	314.43	34672.	-1.3415
1400.0	37.918	4.61043E+05	315.80	18916.	-0.70576
1450.0	37.966	4.62940E+05	317.14	3092.7	-0.11141
1500.0	38.015	4.64839E+05	318.42	-12796.	0.44560
1550.0	38.066	4.66741E+05	319.67	-28749.	0.96881
1600.0	38.118	4.68646E+05	320.88	-44763.	1.4613
1650.0	38.171	4.70553E+05	322.05	-60836.	1.9259
1700.0	38.225	4.72463E+05	323.19	-76968.	2.3649
1750.0	38.281	4.74375E+05	324.30	-93155.	2.7805
1800.0	38.338	4.76291E+05	325.38	-1.09398E+05	3.1746
1850.0	38.397	4.78209E+05	326.43	-1.25693E+05	3.5488
1900.0	38.458	4.80131E+05	327.46	-1.42041E+05	3.9049
1950.0	38.520	4.82055E+05	328.46	-1.58439E+05	4.2440
2000.0	38.585	4.83983E+05	329.43	-1.74886E+05	4.5674
2050.0	38.651	4.85914E+05	330.39	-1.91382E+05	4.8763
2100.0	38.733	4.87848E+05	331.32	-2.07924E+05	5.1717
2150.0	38.830	4.89787E+05	332.23	-2.24513E+05	5.4545
2200.0	38.942	4.91731E+05	333.13	-2.41147E+05	5.7254
2250.0	39.068	4.93682E+05	334.00	-2.57826E+05	5.9854
2300.0	39.207	4.95638E+05	334.86	-2.74547E+05	6.2350
2350.0	39.360	4.97603E+05	335.71	-2.91312E+05	6.4750
2400.0	39.526	4.99575E+05	336.54	-3.08118E+05	6.7058
2450.0	39.705	5.01555E+05	337.36	-3.24965E+05	6.9282
2500.0	39.896	5.03545E+05	338.16	-3.41853E+05	7.1425
2550.0	40.099	5.05545E+05	338.95	-3.58781E+05	7.3492
2600.0	40.314	5.07555E+05	339.73	-3.75748E+05	7.5487
2650.0	40.540	5.09577E+05	340.50	-3.92754E+05	7.7415
2700.0	40.778	5.11610E+05	341.26	-4.09798E+05	7.9278
2750.0	41.027	5.13655E+05	342.01	-4.26880E+05	8.1081
2800.0	41.288	5.15713E+05	342.75	-4.44000E+05	8.2827
2850.0	41.559	5.17784E+05	343.49	-4.61156E+05	8.4518
2900.0	41.841	5.19869E+05	344.21	-4.78348E+05	8.6158
2950.0	42.134	5.21968E+05	344.93	-4.95577E+05	8.7748
3000.0	42.437	5.24082E+05	345.64	-5.12841E+05	8.9291

MoCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	58.025	1.10000E+05	296.10	21719.	-3.8049
300.00	58.078	1.10107E+05	296.46	21171.	-3.6860
350.00	59.200	1.13042E+05	305.50	6116.6	-0.91283
400.00	59.918	1.16021E+05	313.46	-9361.3	1.2224
450.00	60.402	1.19029E+05	320.54	-25215.	2.9267
500.00	60.743	1.22059E+05	326.92	-41404.	4.3253
550.00	60.992	1.25102E+05	332.73	-57897.	5.4985
600.00	61.179	1.28157E+05	338.04	-74668.	6.5003
650.00	61.325	1.31220E+05	342.94	-91695.	7.3685
700.00	61.441	1.34289E+05	347.49	-1.08957E+05	8.1303
750.00	61.537	1.37363E+05	351.74	-1.26439E+05	8.8058
800.00	61.618	1.40442E+05	355.71	-1.44126E+05	9.4102
850.00	61.688	1.43525E+05	359.45	-1.62006E+05	9.9554
900.00	61.752	1.46611E+05	362.98	-1.80067E+05	10.451
950.00	61.810	1.49700E+05	366.32	-1.98301E+05	10.903
1000.0	61.866	1.52792E+05	369.49	-2.16696E+05	11.319
1050.0	61.920	1.55887E+05	372.51	-2.35247E+05	11.703
1100.0	61.973	1.58984E+05	375.39	-2.53945E+05	12.059
1150.0	62.026	1.62084E+05	378.15	-2.72784E+05	12.390
1200.0	62.080	1.65186E+05	380.79	-2.91757E+05	12.700
1250.0	62.135	1.68292E+05	383.32	-3.10861E+05	12.990
1300.0	62.193	1.71400E+05	385.76	-3.30088E+05	13.263
1350.0	62.252	1.74511E+05	388.11	-3.49435E+05	13.520
1400.0	62.314	1.77625E+05	390.37	-3.68897E+05	13.763
1450.0	62.378	1.80743E+05	392.56	-3.88471E+05	13.994
1500.0	62.445	1.83863E+05	394.68	-4.08152E+05	14.213
1550.0	62.516	1.86987E+05	396.73	-4.27938E+05	14.421
1600.0	62.589	1.90115E+05	398.71	-4.47824E+05	14.620
1650.0	62.666	1.93246E+05	400.64	-4.67808E+05	14.809
1700.0	62.746	1.96381E+05	402.51	-4.87887E+05	14.991
1750.0	62.830	1.99521E+05	404.33	-5.08058E+05	15.164
1800.0	62.917	2.02664E+05	406.10	-5.28319E+05	15.331
1850.0	63.008	2.05813E+05	407.83	-5.48667E+05	15.491
1900.0	63.103	2.08965E+05	409.51	-5.69101E+05	15.645
1950.0	63.218	2.12123E+05	411.15	-5.89618E+05	15.794
2000.0	63.345	2.15287E+05	412.75	-6.10215E+05	15.937
2050.0	63.482	2.18458E+05	414.32	-6.30892E+05	16.075
2100.0	63.629	2.21636E+05	415.85	-6.51646E+05	16.208
2150.0	63.783	2.24821E+05	417.35	-6.72477E+05	16.338
2200.0	63.944	2.28014E+05	418.82	-6.93381E+05	16.463
2250.0	64.111	2.31215E+05	420.25	-7.14358E+05	16.584
2300.0	64.283	2.34425E+05	421.67	-7.35406E+05	16.701
2350.0	64.459	2.37644E+05	423.05	-7.56524E+05	16.815
2400.0	64.638	2.40871E+05	424.41	-7.77710E+05	16.926
2450.0	64.820	2.44108E+05	425.74	-7.98964E+05	17.034
2500.0	65.003	2.47353E+05	427.05	-8.20284E+05	17.138
2550.0	65.189	2.50608E+05	428.34	-8.41669E+05	17.240
2600.0	65.375	2.53872E+05	429.61	-8.63118E+05	17.340
2650.0	65.562	2.57146E+05	430.86	-8.84630E+05	17.437
2700.0	65.749	2.60428E+05	432.09	-9.06204E+05	17.531
2750.0	65.936	2.63720E+05	433.29	-9.27838E+05	17.623
2800.0	66.122	2.67022E+05	434.48	-9.49533E+05	17.713
2850.0	66.308	2.70333E+05	435.66	-9.71287E+05	17.801
2900.0	66.492	2.73653E+05	436.81	-9.93098E+05	17.887
2950.0	66.676	2.76982E+05	437.95	-1.01497E+06	17.971
3000.0	66.857	2.80320E+05	439.07	-1.03689E+06	18.053

MoO2Cl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	85.233	-6.33039E+05	337.78	-7.33748E+05	128.55
300.00	85.395	-6.32881E+05	338.31	-7.34373E+05	127.86
350.00	89.204	-6.28512E+05	351.77	-7.51632E+05	112.17
400.00	92.188	-6.23975E+05	363.88	-7.69528E+05	100.49
450.00	94.600	-6.19303E+05	374.89	-7.88001E+05	91.466
500.00	96.572	-6.14522E+05	384.96	-8.07001E+05	84.305
550.00	98.179	-6.09652E+05	394.24	-8.26484E+05	78.491
600.00	99.466	-6.04709E+05	402.84	-8.46414E+05	73.685
650.00	100.57	-5.99707E+05	410.85	-8.66758E+05	69.652
700.00	101.47	-5.94656E+05	418.33	-8.87490E+05	66.224
750.00	102.21	-5.89563E+05	425.36	-9.08584E+05	63.278
800.00	102.83	-5.84437E+05	431.98	-9.30019E+05	60.722
850.00	103.36	-5.79282E+05	438.23	-9.51776E+05	58.488
900.00	103.82	-5.74102E+05	444.15	-9.73836E+05	56.519
950.00	104.22	-5.68900E+05	449.77	-9.96186E+05	54.773
1000.0	104.57	-5.63681E+05	455.13	-1.01881E+06	53.216
1050.0	104.87	-5.58444E+05	460.24	-1.04169E+06	51.820
1100.0	105.14	-5.53194E+05	465.12	-1.06483E+06	50.563
1150.0	105.38	-5.47931E+05	469.80	-1.08820E+06	49.426
1200.0	105.60	-5.42656E+05	474.29	-1.11181E+06	48.394
1250.0	105.79	-5.37371E+05	478.61	-1.13563E+06	47.454
1300.0	105.96	-5.32077E+05	482.76	-1.15966E+06	46.595
1350.0	106.11	-5.26775E+05	486.76	-1.18390E+06	45.807
1400.0	106.25	-5.21466E+05	490.62	-1.20834E+06	45.083
1450.0	106.37	-5.16150E+05	494.35	-1.23296E+06	44.415
1500.0	106.48	-5.10829E+05	497.96	-1.25777E+06	43.798
1550.0	106.57	-5.05503E+05	501.45	-1.28276E+06	43.228
1600.0	106.65	-5.00172E+05	504.84	-1.30792E+06	42.698
1650.0	106.74	-4.94837E+05	508.12	-1.33324E+06	42.206
1700.0	106.81	-4.89498E+05	511.31	-1.35873E+06	41.748
1750.0	106.89	-4.84156E+05	514.41	-1.38437E+06	41.320
1800.0	106.95	-4.78810E+05	517.42	-1.41017E+06	40.921
1850.0	107.01	-4.73461E+05	520.35	-1.43611E+06	40.547
1900.0	107.06	-4.68109E+05	523.21	-1.46220E+06	40.198
1950.0	107.11	-4.62754E+05	525.99	-1.48843E+06	39.870
2000.0	107.16	-4.57398E+05	528.70	-1.51480E+06	39.561
2050.0	107.21	-4.52038E+05	531.35	-1.54130E+06	39.272
2100.0	107.25	-4.46677E+05	533.93	-1.56793E+06	38.999
2150.0	107.28	-4.41314E+05	536.45	-1.59469E+06	38.742
2200.0	107.32	-4.35949E+05	538.92	-1.62157E+06	38.500
2250.0	107.35	-4.30582E+05	541.33	-1.64858E+06	38.271
2300.0	107.38	-4.25213E+05	543.69	-1.67571E+06	38.056
2350.0	107.41	-4.19844E+05	546.00	-1.70295E+06	37.851
2400.0	107.44	-4.14472E+05	548.26	-1.73031E+06	37.658
2450.0	107.47	-4.09100E+05	550.48	-1.75778E+06	37.475
2500.0	107.49	-4.03726E+05	552.65	-1.78535E+06	37.302
2550.0	107.51	-3.98351E+05	554.78	-1.81304E+06	37.138
2600.0	107.53	-3.92974E+05	556.87	-1.84083E+06	36.982
2650.0	107.55	-3.87597E+05	558.92	-1.86873E+06	36.834
2700.0	107.57	-3.82219E+05	560.93	-1.89672E+06	36.693
2750.0	107.59	-3.76840E+05	562.90	-1.92482E+06	36.560
2800.0	107.61	-3.71460E+05	564.84	-1.95301E+06	36.433
2850.0	107.63	-3.66079E+05	566.74	-1.98130E+06	36.312
2900.0	107.64	-3.60697E+05	568.62	-2.00969E+06	36.197
2950.0	107.66	-3.55315E+05	570.46	-2.03816E+06	36.088
3000.0	107.67	-3.49932E+05	572.27	-2.06673E+06	35.984

MoBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.379	4.60000E+05	251.06	3.85146E+05	-67.474
300.00	36.395	4.60067E+05	251.29	3.84682E+05	-66.977
350.00	36.733	4.61896E+05	256.92	3.71973E+05	-55.513
400.00	36.945	4.63739E+05	261.84	3.59001E+05	-46.880
450.00	37.087	4.65590E+05	266.20	3.45798E+05	-40.138
500.00	37.186	4.67447E+05	270.12	3.32389E+05	-34.724
550.00	37.257	4.69308E+05	273.66	3.18793E+05	-30.276
600.00	37.311	4.71172E+05	276.91	3.05027E+05	-26.554
650.00	37.354	4.73039E+05	279.90	2.91106E+05	-23.393
700.00	37.388	4.74907E+05	282.67	2.77041E+05	-20.673
750.00	37.418	4.76777E+05	285.25	2.62843E+05	-18.306
800.00	37.445	4.78649E+05	287.66	2.48519E+05	-16.226
850.00	37.470	4.80522E+05	289.93	2.34079E+05	-14.384
900.00	37.495	4.82396E+05	292.08	2.19528E+05	-12.741
950.00	37.519	4.84271E+05	294.10	2.04873E+05	-11.264
1000.0	37.544	4.86148E+05	296.03	1.90120E+05	-9.9306
1050.0	37.570	4.88026E+05	297.86	1.75272E+05	-8.7191
1100.0	37.597	4.89905E+05	299.61	1.60335E+05	-7.6135
1150.0	37.626	4.91785E+05	301.28	1.45312E+05	-6.6001
1200.0	37.656	4.93668E+05	302.88	1.30208E+05	-5.6677
1250.0	37.689	4.95551E+05	304.42	1.15025E+05	-4.8065
1300.0	37.724	4.97436E+05	305.90	99767.	-4.0086
1350.0	37.760	4.99324E+05	307.32	84436.	-3.2669
1400.0	37.799	5.01213E+05	308.70	69035.	-2.5757
1450.0	37.841	5.03104E+05	310.03	53567.	-1.9296
1500.0	37.885	5.04997E+05	311.31	38034.	-1.3244
1550.0	37.931	5.06892E+05	312.55	22437.	-0.75610
1600.0	37.980	5.08790E+05	313.76	6779.1	-0.22131
1650.0	38.031	5.10690E+05	314.93	-8938.2	0.28295
1700.0	38.085	5.12593E+05	316.06	-24713.	0.75932
1750.0	38.142	5.14499E+05	317.17	-40544.	1.2101
1800.0	38.201	5.16407E+05	318.24	-56429.	1.6375
1850.0	38.263	5.18319E+05	319.29	-72368.	2.0432
1900.0	38.327	5.20233E+05	320.31	-88358.	2.4291
1950.0	38.394	5.22151E+05	321.31	-1.04398E+05	2.7964
2000.0	38.464	5.24073E+05	322.28	-1.20488E+05	3.1467
2050.0	38.537	5.25998E+05	323.23	-1.36626E+05	3.4812
2100.0	38.614	5.27927E+05	324.16	-1.52811E+05	3.8009
2150.0	38.698	5.29859E+05	325.07	-1.69042E+05	4.1068
2200.0	38.800	5.31797E+05	325.96	-1.85318E+05	4.3999
2250.0	38.920	5.33740E+05	326.83	-2.01638E+05	4.6810
2300.0	39.058	5.35689E+05	327.69	-2.18001E+05	4.9508
2350.0	39.212	5.37646E+05	328.53	-2.34406E+05	5.2101
2400.0	39.382	5.39611E+05	329.36	-2.50854E+05	5.4596
2450.0	39.567	5.41584E+05	330.17	-2.67342E+05	5.6997
2500.0	39.768	5.43568E+05	330.98	-2.83871E+05	5.9310
2550.0	39.982	5.45561E+05	331.77	-3.00440E+05	6.1541
2600.0	40.211	5.47566E+05	332.54	-3.17047E+05	6.3694
2650.0	40.454	5.49583E+05	333.31	-3.33694E+05	6.5773
2700.0	40.710	5.51612E+05	334.07	-3.50378E+05	6.7783
2750.0	40.980	5.53654E+05	334.82	-3.67101E+05	6.9727
2800.0	41.262	5.55710E+05	335.56	-3.83860E+05	7.1608
2850.0	41.557	5.57780E+05	336.29	-4.00657E+05	7.3430
2900.0	41.864	5.59866E+05	337.02	-4.17489E+05	7.5196
2950.0	42.184	5.61967E+05	337.74	-4.34358E+05	7.6908
3000.0	42.516	5.64084E+05	338.45	-4.51263E+05	7.8570

MoBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.878	1.70000E+05	318.94	74908.	-13.123
300.00	59.911	1.70111E+05	319.31	74317.	-12.939
350.00	60.595	1.73125E+05	328.60	58114.	-8.6728
400.00	61.022	1.76166E+05	336.72	41477.	-5.4161
450.00	61.301	1.79225E+05	343.93	24457.	-2.8388
500.00	61.490	1.82295E+05	350.40	7095.9	-0.74129
550.00	61.623	1.85373E+05	356.26	-10573.	1.0041
600.00	61.718	1.88456E+05	361.63	-28522.	2.4830
650.00	61.790	1.91544E+05	366.57	-46729.	3.7551
700.00	61.845	1.94635E+05	371.16	-65174.	4.8632
750.00	61.889	1.97728E+05	375.42	-83839.	5.8389
800.00	61.926	2.00824E+05	379.42	-1.02711E+05	6.7062
850.00	61.960	2.03921E+05	383.17	-1.21777E+05	7.4833
900.00	61.992	2.07020E+05	386.72	-1.41025E+05	8.1847
950.00	62.023	2.10120E+05	390.07	-1.60446E+05	8.8217
1000.0	62.054	2.13222E+05	393.25	-1.80029E+05	9.4035
1050.0	62.088	2.16326E+05	396.28	-1.99768E+05	9.9377
1100.0	62.123	2.19431E+05	399.17	-2.19655E+05	10.430
1150.0	62.161	2.22538E+05	401.93	-2.39683E+05	10.886
1200.0	62.203	2.25647E+05	404.58	-2.59846E+05	11.311
1250.0	62.248	2.28758E+05	407.12	-2.80139E+05	11.706
1300.0	62.297	2.31872E+05	409.56	-3.00557E+05	12.076
1350.0	62.350	2.34988E+05	411.91	-3.21094E+05	12.424
1400.0	62.407	2.38107E+05	414.18	-3.41746E+05	12.750
1450.0	62.468	2.41229E+05	416.37	-3.62511E+05	13.059
1500.0	62.534	2.44354E+05	418.49	-3.83382E+05	13.350
1550.0	62.605	2.47482E+05	420.54	-4.04358E+05	13.626
1600.0	62.680	2.50614E+05	422.53	-4.25436E+05	13.889
1650.0	62.760	2.53750E+05	424.46	-4.46611E+05	14.138
1700.0	62.845	2.56891E+05	426.34	-4.67881E+05	14.376
1750.0	62.935	2.60035E+05	428.16	-4.89243E+05	14.603
1800.0	63.030	2.63184E+05	429.93	-5.10696E+05	14.820
1850.0	63.129	2.66338E+05	431.66	-5.32236E+05	15.027
1900.0	63.234	2.69497E+05	433.35	-5.53861E+05	15.226
1950.0	63.344	2.72662E+05	434.99	-5.75570E+05	15.417
2000.0	63.459	2.75832E+05	436.60	-5.97360E+05	15.601
2050.0	63.580	2.79008E+05	438.16	-6.19229E+05	15.778
2100.0	63.705	2.82190E+05	439.70	-6.41176E+05	15.948
2150.0	63.836	2.85378E+05	441.20	-6.63198E+05	16.112
2200.0	63.971	2.88573E+05	442.67	-6.85295E+05	16.271
2250.0	64.112	2.91775E+05	444.11	-7.07464E+05	16.424
2300.0	64.258	2.94985E+05	445.52	-7.29705E+05	16.572
2350.0	64.410	2.98201E+05	446.90	-7.52016E+05	16.715
2400.0	64.567	3.01426E+05	448.26	-7.74395E+05	16.854
2450.0	64.728	3.04658E+05	449.59	-7.96841E+05	16.988
2500.0	64.896	3.07899E+05	450.90	-8.19353E+05	17.119
2550.0	65.068	3.11148E+05	452.19	-8.41931E+05	17.246
2600.0	65.246	3.14406E+05	453.45	-8.64572E+05	17.369
2650.0	65.429	3.17672E+05	454.70	-8.87276E+05	17.489
2700.0	65.617	3.20949E+05	455.92	-9.10041E+05	17.605
2750.0	65.811	3.24234E+05	457.13	-9.32868E+05	17.719
2800.0	66.010	3.27530E+05	458.32	-9.55754E+05	17.829
2850.0	66.214	3.30835E+05	459.49	-9.78699E+05	17.937
2900.0	66.424	3.34151E+05	460.64	-1.00170E+06	18.042
2950.0	66.639	3.37478E+05	461.78	-1.02476E+06	18.145
3000.0	66.856	3.40815E+05	462.90	-1.04788E+06	18.245

MoBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.111	-20000.	373.22	-1.31276E+05	22.998
300.00	79.159	-19854.	373.71	-1.31966E+05	22.977
350.00	80.167	-15869.	385.99	-1.50966E+05	22.530
400.00	80.820	-11843.	396.74	-1.70540E+05	22.270
450.00	81.268	-7789.9	406.29	-1.90621E+05	22.126
500.00	81.590	-3718.0	414.87	-2.11153E+05	22.058
550.00	81.831	367.76	422.66	-2.32095E+05	22.042
600.00	82.016	4464.1	429.79	-2.53408E+05	22.061
650.00	82.164	8568.7	436.36	-2.75064E+05	22.104
700.00	82.285	12680.	442.45	-2.97036E+05	22.165
750.00	82.386	16797.	448.13	-3.19302E+05	22.238
800.00	82.474	20918.	453.45	-3.41843E+05	22.320
850.00	82.552	25044.	458.45	-3.64642E+05	22.408
900.00	82.622	29174.	463.18	-3.87684E+05	22.500
950.00	82.687	33306.	467.64	-4.10956E+05	22.595
1000.0	82.747	37442.	471.89	-4.34445E+05	22.692
1050.0	82.805	41581.	475.93	-4.58141E+05	22.791
1100.0	82.862	45723.	479.78	-4.82034E+05	22.889
1150.0	82.917	49867.	483.46	-5.06116E+05	22.988
1200.0	82.972	54014.	486.99	-5.30378E+05	23.086
1250.0	83.027	58164.	490.38	-5.54813E+05	23.184
1300.0	83.082	62317.	493.64	-5.79414E+05	23.281
1350.0	83.138	66473.	496.78	-6.04175E+05	23.376
1400.0	83.195	70631.	499.80	-6.29090E+05	23.471
1450.0	83.253	74792.	502.72	-6.54153E+05	23.565
1500.0	83.313	78956.	505.54	-6.79360E+05	23.657
1550.0	83.374	83123.	508.28	-7.04706E+05	23.748
1600.0	83.436	87294.	510.92	-7.30186E+05	23.838
1650.0	83.501	91467.	513.49	-7.55797E+05	23.926
1700.0	83.567	95644.	515.99	-7.81534E+05	24.013
1750.0	83.635	99824.	518.41	-8.07395E+05	24.099
1800.0	83.705	1.04007E+05	520.77	-8.33374E+05	24.183
1850.0	83.777	1.08194E+05	523.06	-8.59470E+05	24.266
1900.0	83.851	1.12385E+05	525.30	-8.85680E+05	24.348
1950.0	83.927	1.16579E+05	527.48	-9.11999E+05	24.429
2000.0	84.005	1.20778E+05	529.60	-9.38426E+05	24.509
2050.0	84.086	1.24980E+05	531.68	-9.64959E+05	24.587
2100.0	84.169	1.29186E+05	533.70	-9.91593E+05	24.664
2150.0	84.254	1.33397E+05	535.69	-1.01833E+06	24.740
2200.0	84.341	1.37612E+05	537.62	-1.04516E+06	24.815
2250.0	84.431	1.41831E+05	539.52	-1.07209E+06	24.888
2300.0	84.522	1.46055E+05	541.38	-1.09911E+06	24.961
2350.0	84.617	1.50283E+05	543.20	-1.12623E+06	25.033
2400.0	84.713	1.54517E+05	544.98	-1.15343E+06	25.103
2450.0	84.812	1.58755E+05	546.73	-1.18072E+06	25.173
2500.0	84.914	1.62998E+05	548.44	-1.20810E+06	25.241
2550.0	85.017	1.67246E+05	550.12	-1.23557E+06	25.309
2600.0	85.123	1.71500E+05	551.77	-1.26312E+06	25.376
2650.0	85.232	1.75758E+05	553.40	-1.29074E+06	25.441
2700.0	85.343	1.80023E+05	554.99	-1.31845E+06	25.506
2750.0	85.456	1.84293E+05	556.56	-1.34624E+06	25.570
2800.0	85.572	1.88568E+05	558.10	-1.37411E+06	25.634
2850.0	85.690	1.92850E+05	559.62	-1.40205E+06	25.696
2900.0	85.811	1.97137E+05	561.11	-1.43007E+06	25.758
2950.0	85.934	2.01431E+05	562.57	-1.45816E+06	25.819
3000.0	86.059	2.05731E+05	564.02	-1.48633E+06	25.879

MoBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	104.62	-2.06000E+05	459.46	-3.42987E+05	60.088
300.00	104.65	-2.05806E+05	460.10	-3.43837E+05	59.866
350.00	105.36	-2.00555E+05	476.29	-3.67257E+05	54.809
400.00	105.87	-1.95274E+05	490.39	-3.91432E+05	51.114
450.00	106.27	-1.89970E+05	502.89	-4.16270E+05	48.318
500.00	106.60	-1.84648E+05	514.10	-4.41699E+05	46.143
550.00	106.88	-1.79311E+05	524.28	-4.67663E+05	44.414
600.00	107.13	-1.73961E+05	533.59	-4.94113E+05	43.015
650.00	107.35	-1.68599E+05	542.17	-5.21009E+05	41.868
700.00	107.56	-1.63226E+05	550.13	-5.48319E+05	40.915
750.00	107.75	-1.57844E+05	557.56	-5.76014E+05	40.116
800.00	107.93	-1.52452E+05	564.52	-6.04067E+05	39.441
850.00	108.11	-1.47051E+05	571.07	-6.32459E+05	38.865
900.00	108.27	-1.41641E+05	577.25	-6.61168E+05	38.372
950.00	108.43	-1.36224E+05	583.11	-6.90179E+05	37.948
1000.0	108.59	-1.30798E+05	588.68	-7.19474E+05	37.581
1050.0	108.74	-1.25365E+05	593.98	-7.49042E+05	37.262
1100.0	108.88	-1.19924E+05	599.04	-7.78868E+05	36.984
1150.0	109.02	-1.14477E+05	603.88	-8.08942E+05	36.742
1200.0	109.16	-1.09022E+05	608.53	-8.39253E+05	36.531
1250.0	109.30	-1.03561E+05	612.98	-8.69792E+05	36.346
1300.0	109.43	-98092.	617.27	-9.00549E+05	36.184
1350.0	109.56	-92618.	621.41	-9.31517E+05	36.042
1400.0	109.68	-87137.	625.39	-9.62687E+05	35.917
1450.0	109.81	-81650.	629.24	-9.94054E+05	35.809
1500.0	109.93	-76156.	632.97	-1.02561E+06	35.714
1550.0	110.05	-70657.	636.58	-1.05735E+06	35.631
1600.0	110.16	-65152.	640.07	-1.08927E+06	35.560
1650.0	110.28	-59641.	643.46	-1.12135E+06	35.498
1700.0	110.39	-54124.	646.76	-1.15361E+06	35.445
1750.0	110.49	-48602.	649.96	-1.18603E+06	35.400
1800.0	110.60	-43075.	653.07	-1.21860E+06	35.362
1850.0	110.71	-37542.	656.10	-1.25133E+06	35.330
1900.0	110.81	-32004.	659.06	-1.28421E+06	35.305
1950.0	110.91	-26461.	661.94	-1.31724E+06	35.284
2000.0	111.01	-20913.	664.75	-1.35041E+06	35.268
2050.0	111.10	-15361.	667.49	-1.38371E+06	35.257
2100.0	111.19	-9803.3	670.17	-1.41715E+06	35.249
2150.0	111.29	-4241.3	672.78	-1.45073E+06	35.245
2200.0	111.38	1325.3	675.34	-1.48443E+06	35.244
2250.0	111.46	6896.3	677.85	-1.51826E+06	35.246
2300.0	111.55	12472.	680.30	-1.55221E+06	35.251
2350.0	111.63	18051.	682.70	-1.58629E+06	35.258
2400.0	111.71	23635.	685.05	-1.62048E+06	35.268
2450.0	111.79	29222.	687.35	-1.65479E+06	35.280
2500.0	111.87	34814.	689.61	-1.68922E+06	35.293
2550.0	111.94	40409.	691.83	-1.72375E+06	35.309
2600.0	112.02	46008.	694.00	-1.75840E+06	35.326
2650.0	112.09	51611.	696.14	-1.79315E+06	35.344
2700.0	112.16	57217.	698.23	-1.82801E+06	35.364
2750.0	112.22	62826.	700.29	-1.86298E+06	35.385
2800.0	112.29	68439.	702.31	-1.89804E+06	35.408
2850.0	112.35	74055.	704.30	-1.93321E+06	35.431
2900.0	112.41	79674.	706.26	-1.96847E+06	35.455
2950.0	112.47	85297.	708.18	-2.00383E+06	35.480
3000.0	112.53	90922.	710.07	-2.03929E+06	35.506

Mo(CO)₆

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	251.38	-9.84495E+05	327.19	-1.08205E+06	189.57
300.00	251.67	-9.84030E+05	328.74	-1.08265E+06	188.50
350.00	259.41	-9.71253E+05	368.12	-1.10010E+06	164.18
400.00	267.15	-9.58089E+05	403.27	-1.11940E+06	146.17
450.00	274.89	-9.44538E+05	435.18	-1.14037E+06	132.37

Mo(CO)₆<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	211.29	-9.12099E+05	490.11	-1.05822E+06	185.39
300.00	211.98	-9.11707E+05	491.42	-1.05913E+06	184.41
350.00	227.08	-9.00706E+05	525.31	-1.08456E+06	161.86
400.00	237.68	-8.89073E+05	556.36	-1.11162E+06	145.16
450.00	245.67	-8.76981E+05	584.83	-1.14016E+06	132.34
500.00	252.05	-8.64533E+05	611.06	-1.17006E+06	122.23
550.00	257.36	-8.51794E+05	635.34	-1.20123E+06	114.08
600.00	261.94	-8.38809E+05	657.93	-1.23357E+06	107.39
650.00	266.02	-8.25608E+05	679.06	-1.26700E+06	101.81
700.00	269.73	-8.12213E+05	698.91	-1.30145E+06	97.113
750.00	273.17	-7.98639E+05	717.64	-1.33687E+06	93.106
800.00	276.40	-7.84899E+05	735.38	-1.37320E+06	89.658
850.00	279.47	-7.71002E+05	752.22	-1.41039E+06	86.670
900.00	282.41	-7.56954E+05	768.28	-1.44841E+06	84.061
950.00	285.26	-7.42762E+05	783.63	-1.48721E+06	81.770
1000.0	288.02	-7.28430E+05	798.33	-1.52676E+06	79.748
1050.0	290.72	-7.13961E+05	812.45	-1.56703E+06	77.954
1100.0	293.36	-6.99359E+05	826.03	-1.60800E+06	76.355
1150.0	295.96	-6.84626E+05	839.13	-1.64963E+06	74.927
1200.0	298.53	-6.69763E+05	851.78	-1.69190E+06	73.645
1250.0	301.06	-6.54774E+05	864.02	-1.73480E+06	72.491
1300.0	303.56	-6.39658E+05	875.88	-1.77830E+06	71.451
1350.0	306.04	-6.24418E+05	887.38	-1.82238E+06	70.510
1400.0	308.50	-6.09054E+05	898.56	-1.86703E+06	69.658
1450.0	310.95	-5.93568E+05	909.42	-1.91223E+06	68.884
1500.0	313.38	-5.77960E+05	920.01	-1.95797E+06	68.181
1550.0	315.79	-5.62230E+05	930.32	-2.00423E+06	67.540
1600.0	318.20	-5.46380E+05	940.39	-2.05100E+06	66.956
1650.0	320.60	-5.30410E+05	950.21	-2.09826E+06	66.424
1700.0	322.98	-5.14321E+05	959.82	-2.14601E+06	65.937
1750.0	325.36	-4.98112E+05	969.22	-2.19424E+06	65.493
1800.0	327.73	-4.81785E+05	978.42	-2.24293E+06	65.087
1850.0	330.10	-4.65339E+05	987.43	-2.29208E+06	64.715
1900.0	332.46	-4.48775E+05	996.26	-2.34167E+06	64.375
1950.0	334.81	-4.32093E+05	1004.9	-2.39170E+06	64.065
2000.0	337.16	-4.15294E+05	1013.4	-2.44216E+06	63.781

MoB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.587	-1.23990E+05	25.271	-1.31525E+05	23.042
300.00	32.778	-1.23930E+05	25.473	-1.31571E+05	22.908
350.00	36.894	-1.22180E+05	30.858	-1.32981E+05	19.846
400.00	39.636	-1.20263E+05	35.975	-1.34653E+05	17.583
450.00	41.583	-1.18230E+05	40.762	-1.36573E+05	15.853
500.00	43.040	-1.16112E+05	45.222	-1.38724E+05	14.492
550.00	44.180	-1.13931E+05	49.380	-1.41090E+05	13.399
600.00	45.107	-1.11698E+05	53.265	-1.43657E+05	12.506
650.00	45.888	-1.09423E+05	56.907	-1.46412E+05	11.766
700.00	46.564	-1.07111E+05	60.333	-1.49344E+05	11.144
750.00	47.166	-1.04767E+05	63.566	-1.52442E+05	10.617
800.00	47.714	-1.02395E+05	66.628	-1.55698E+05	10.166
850.00	48.222	-99997.	69.536	-1.59103E+05	9.7770
900.00	48.701	-97573.	72.306	-1.62649E+05	9.4397
950.00	49.159	-95127.	74.952	-1.66331E+05	9.1453
1000.0	49.602	-92658.	77.485	-1.70142E+05	8.8871
1050.0	50.035	-90167.	79.915	-1.74078E+05	8.6597
1100.0	50.461	-87654.	82.253	-1.78132E+05	8.4586
1150.0	50.882	-85121.	84.505	-1.82302E+05	8.2802
1200.0	51.302	-82566.	86.680	-1.86582E+05	8.1215
1250.0	51.722	-79991.	88.782	-1.90969E+05	7.9799
1300.0	52.143	-77394.	90.819	-1.95459E+05	7.8534
1350.0	52.567	-74776.	92.795	-2.00049E+05	7.7402
1400.0	52.994	-72137.	94.714	-2.04737E+05	7.6387
1450.0	53.426	-69477.	96.581	-2.09520E+05	7.5475
1500.0	53.863	-66795.	98.400	-2.14395E+05	7.4657
1550.0	54.306	-64090.	100.17	-2.19359E+05	7.3922
1600.0	54.755	-61364.	101.90	-2.24411E+05	7.3261
1650.0	55.211	-58615.	103.60	-2.29549E+05	7.2667
1700.0	55.673	-55843.	105.25	-2.34770E+05	7.2134
1750.0	56.143	-53047.	106.87	-2.40074E+05	7.1656
1800.0	56.621	-50228.	108.46	-2.45457E+05	7.1228
1850.0	57.106	-47385.	110.02	-2.50919E+05	7.0845
1900.0	57.599	-44518.	111.55	-2.56458E+05	7.0504
1950.0	58.100	-41625.	113.05	-2.62073E+05	7.0200
2000.0	58.610	-38707.	114.53	-2.67763E+05	6.9931
2050.0	59.128	-35764.	115.98	-2.73526E+05	6.9693
2100.0	59.654	-32794.	117.41	-2.79361E+05	6.9485
2150.0	60.190	-29798.	118.82	-2.85267E+05	6.9304
2200.0	60.734	-26775.	120.21	-2.91243E+05	6.9148
2250.0	61.286	-23725.	121.58	-2.97288E+05	6.9015
2300.0	61.848	-20647.	122.94	-3.03401E+05	6.8903
2350.0	62.419	-17540.	124.27	-3.09581E+05	6.8810
2400.0	62.998	-14405.	125.59	-3.15828E+05	6.8736
2450.0	63.587	-11240.	126.90	-3.22140E+05	6.8679
2500.0	64.185	-8045.7	128.19	-3.28517E+05	6.8638
2550.0	64.792	-4821.3	129.47	-3.34959E+05	6.8612
2600.0	65.408	-1566.3	130.73	-3.41464E+05	6.8599
2650.0	66.034	1719.7	131.98	-3.48032E+05	6.8599
2700.0	66.669	5037.2	133.22	-3.54662E+05	6.8612
2750.0	67.313	8386.7	134.45	-3.61354E+05	6.8635
2800.0	67.966	11769.	135.67	-3.68107E+05	6.8669
2850.0	68.629	15184.	136.88	-3.74920E+05	6.8713
2873.0	68.937	16765.	137.43	-3.78075E+05	6.8737
2873.0	80.751	71994.	156.65	-3.78075E+05	6.8737
2900.0	80.751	74175.	157.41	-3.82315E+05	6.8861
2950.0	80.751	78212.	158.79	-3.90220E+05	6.9093
3000.0	80.751	82250.	160.15	-3.98193E+05	6.9330

N<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.786	4.72687E+05	153.30	4.26982E+05	-74.804
300.00	20.787	4.72726E+05	153.43	4.26698E+05	-74.293
350.00	20.797	4.73765E+05	156.63	4.18944E+05	-62.522
400.00	20.801	4.74805E+05	159.41	4.11042E+05	-53.675
450.00	20.802	4.75846E+05	161.86	4.03009E+05	-46.779
500.00	20.802	4.76886E+05	164.05	3.94860E+05	-41.250
550.00	20.801	4.77926E+05	166.03	3.86607E+05	-36.716
600.00	20.799	4.78966E+05	167.84	3.78260E+05	-32.930
650.00	20.796	4.80006E+05	169.51	3.69825E+05	-29.719
700.00	20.794	4.81045E+05	171.05	3.61311E+05	-26.961
750.00	20.791	4.82085E+05	172.48	3.52722E+05	-24.565
800.00	20.788	4.83124E+05	173.83	3.44064E+05	-22.465
850.00	20.786	4.84164E+05	175.09	3.35341E+05	-20.607
900.00	20.784	4.85203E+05	176.27	3.26557E+05	-18.952
950.00	20.781	4.86242E+05	177.40	3.17715E+05	-17.469
1000.0	20.779	4.87281E+05	178.46	3.08818E+05	-16.131
1050.0	20.778	4.88320E+05	179.48	2.99869E+05	-14.917
1100.0	20.776	4.89359E+05	180.44	2.90871E+05	-13.812
1150.0	20.775	4.90398E+05	181.37	2.81826E+05	-12.801
1200.0	20.774	4.91436E+05	182.25	2.72735E+05	-11.872
1250.0	20.773	4.92475E+05	183.10	2.63601E+05	-11.015
1300.0	20.772	4.93514E+05	183.91	2.54426E+05	-10.223
1350.0	20.772	4.94552E+05	184.70	2.45210E+05	-9.4875
1400.0	20.772	4.95591E+05	185.45	2.35956E+05	-8.8034
1450.0	20.772	4.96630E+05	186.18	2.26665E+05	-8.1652
1500.0	20.773	4.97668E+05	186.89	2.17339E+05	-7.5682
1550.0	20.774	4.98707E+05	187.57	2.07977E+05	-7.0086
1600.0	20.775	4.99746E+05	188.23	1.98582E+05	-6.4829
1650.0	20.777	5.00784E+05	188.87	1.89155E+05	-5.9880
1700.0	20.778	5.01823E+05	189.49	1.79696E+05	-5.5212
1750.0	20.780	5.02862E+05	190.09	1.70207E+05	-5.0803
1800.0	20.783	5.03901E+05	190.67	1.60687E+05	-4.6629
1850.0	20.785	5.04940E+05	191.24	1.51139E+05	-4.2673
1900.0	20.788	5.05980E+05	191.80	1.41563E+05	-3.8917
1950.0	20.791	5.07019E+05	192.34	1.31960E+05	-3.5347
2000.0	20.795	5.08059E+05	192.86	1.22330E+05	-3.1948
2050.0	20.799	5.09099E+05	193.38	1.12674E+05	-2.8709
2100.0	20.803	5.10139E+05	193.88	1.02992E+05	-2.5617
2150.0	20.807	5.11179E+05	194.37	93286.	-2.2663
2200.0	20.812	5.12219E+05	194.85	83555.	-1.9838
2250.0	20.817	5.13260E+05	195.32	73801.	-1.7133
2300.0	20.822	5.14301E+05	195.77	64024.	-1.4540
2350.0	20.827	5.15342E+05	196.22	54224.	-1.2052
2400.0	20.833	5.16384E+05	196.66	44402.	-0.96636
2450.0	20.840	5.17426E+05	197.09	34558.	-0.73677
2500.0	20.846	5.18468E+05	197.51	24693.	-0.51593
2550.0	20.853	5.19510E+05	197.92	14808.	-0.30331
2600.0	20.860	5.20553E+05	198.33	4901.2	-9.8E-02
2650.0	20.867	5.21596E+05	198.73	-5025.1	9.9E-02
2700.0	20.875	5.22640E+05	199.12	-14971.	0.28963
2750.0	20.883	5.23684E+05	199.50	-24937.	0.47364
2800.0	20.891	5.24728E+05	199.87	-34921.	0.65144
2850.0	20.900	5.25773E+05	200.24	-44924.	0.82334
2900.0	20.908	5.26818E+05	200.61	-54945.	0.98965
2950.0	20.918	5.27864E+05	200.97	-64985.	1.1506
3000.0	20.933	5.28910E+05	201.32	-75042.	1.3066

N2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.125	0.00000E+00	191.61	-57129.	10.008
300.00	29.122	53.878	191.79	-57483.	10.009
350.00	29.127	1509.6	196.28	-67188.	10.027
400.00	29.228	2968.2	200.17	-77102.	10.068
450.00	29.391	4433.5	203.63	-87198.	10.121
500.00	29.599	5908.1	206.73	-97458.	10.181
550.00	29.842	7393.9	209.57	-1.07867E+05	10.244
600.00	30.113	8892.7	212.17	-1.18411E+05	10.308
650.00	30.410	10406.	214.60	-1.29081E+05	10.373
700.00	30.729	11934.	216.86	-1.39868E+05	10.437
750.00	31.070	13479.	218.99	-1.50765E+05	10.500
800.00	31.430	15041.	221.01	-1.61765E+05	10.562
850.00	31.796	16622.	222.93	-1.72864E+05	10.623
900.00	32.131	18220.	224.75	-1.84056E+05	10.682
950.00	32.440	19835.	226.50	-1.95338E+05	10.740
1000.0	32.729	21464.	228.17	-2.06705E+05	10.797
1050.0	32.998	23107.	229.77	-2.18154E+05	10.852
1100.0	33.251	24764.	231.31	-2.29681E+05	10.906
1150.0	33.489	26432.	232.80	-2.41284E+05	10.959
1200.0	33.714	28112.	234.23	-2.52960E+05	11.011
1250.0	33.926	29803.	235.61	-2.64706E+05	11.061
1300.0	34.127	31505.	236.94	-2.76520E+05	11.110
1350.0	34.318	33216.	238.23	-2.88399E+05	11.159
1400.0	34.498	34936.	239.48	-3.00343E+05	11.206
1450.0	34.669	36666.	240.70	-3.12347E+05	11.252
1500.0	34.831	38403.	241.88	-3.24412E+05	11.297
1550.0	34.985	40149.	243.02	-3.36534E+05	11.341
1600.0	35.130	41901.	244.13	-3.48713E+05	11.384
1650.0	35.267	43661.	245.22	-3.60947E+05	11.426
1700.0	35.396	45428.	246.27	-3.73235E+05	11.468
1750.0	35.517	47201.	247.30	-3.85574E+05	11.508
1800.0	35.631	48980.	248.30	-3.97964E+05	11.548
1850.0	35.737	50764.	249.28	-4.10404E+05	11.587
1900.0	35.836	52553.	250.23	-4.22892E+05	11.626
1950.0	35.928	54347.	251.17	-4.35427E+05	11.663
2000.0	36.013	56146.	252.08	-4.48008E+05	11.700
2050.0	36.091	57949.	252.97	-4.60634E+05	11.737
2100.0	36.162	59755.	253.84	-4.73305E+05	11.773
2150.0	36.226	61565.	254.69	-4.86018E+05	11.808
2200.0	36.284	63377.	255.52	-4.98773E+05	11.842
2250.0	36.352	65193.	256.34	-5.11570E+05	11.876
2300.0	36.417	67013.	257.14	-5.24407E+05	11.909
2350.0	36.478	68835.	257.92	-5.37283E+05	11.942
2400.0	36.536	70660.	258.69	-5.50199E+05	11.974
2450.0	36.590	72488.	259.45	-5.63152E+05	12.006
2500.0	36.643	74319.	260.18	-5.76143E+05	12.038
2550.0	36.692	76153.	260.91	-5.89171E+05	12.068
2600.0	36.739	77988.	261.62	-6.02234E+05	12.099
2650.0	36.785	79827.	262.32	-6.15333E+05	12.129
2700.0	36.828	81667.	263.01	-6.28466E+05	12.158
2750.0	36.869	83509.	263.69	-6.41634E+05	12.187
2800.0	36.909	85354.	264.35	-6.54835E+05	12.216
2850.0	36.947	87200.	265.01	-6.68069E+05	12.244
2900.0	36.984	89048.	265.65	-6.81335E+05	12.272
2950.0	37.019	90899.	266.28	-6.94634E+05	12.299
3000.0	37.054	92750.	266.90	-7.07963E+05	12.326

NH4Cl

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	86.442	-3.14553E+05	94.860	-3.42836E+05	60.062
300.00	86.944	-3.14393E+05	95.396	-3.43012E+05	59.722
350.00	97.190	-3.09765E+05	109.64	-3.48140E+05	51.956
400.00	102.97	-3.04747E+05	123.04	-3.53961E+05	46.221
450.00	106.00	-2.99514E+05	135.36	-3.60426E+05	41.836
457.70	106.28	-2.98697E+05	137.16	-3.61475E+05	41.252
457.70	85.808	-2.94747E+05	145.79	-3.61475E+05	41.252
500.00	90.500	-2.91018E+05	153.58	-3.67808E+05	38.424
550.00	96.082	-2.86354E+05	162.47	-3.75710E+05	35.681
600.00	101.67	-2.81410E+05	171.07	-3.84049E+05	33.434
650.00	107.25	-2.76187E+05	179.42	-3.92813E+05	31.566
700.00	112.80	-2.70685E+05	187.58	-4.01988E+05	29.996
750.00	118.32	-2.64907E+05	195.55	-4.11567E+05	28.663
793.20	123.05	-2.59694E+05	202.30	-4.20161E+05	27.668
793.20	121.34	-2.49108E+05	215.65	-4.20161E+05	27.668
800.00	121.34	-2.48283E+05	216.68	-4.21631E+05	27.529
850.00	121.34	-2.42216E+05	224.04	-4.32651E+05	26.587
900.00	121.34	-2.36149E+05	230.98	-4.44028E+05	25.770
950.00	121.34	-2.30083E+05	237.54	-4.55742E+05	25.058
1000.0	121.34	-2.24016E+05	243.76	-4.67776E+05	24.434

NH4Br

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	88.676	-2.71542E+05	112.84	-3.05185E+05	53.466
300.00	88.894	-2.71377E+05	113.39	-3.05395E+05	53.173
350.00	92.079	-2.66835E+05	127.39	-3.11421E+05	46.476
400.00	92.718	-2.62211E+05	139.74	-3.18106E+05	41.539
411.00	92.778	-2.61190E+05	142.25	-3.19657E+05	40.625
411.00	68.327	-2.57969E+05	150.09	-3.19657E+05	40.625
450.00	77.535	-2.55118E+05	156.71	-3.25639E+05	37.798
500.00	87.195	-2.50992E+05	165.40	-3.33691E+05	34.860
550.00	95.300	-2.46425E+05	174.10	-3.42179E+05	32.497
600.00	102.42	-2.41478E+05	182.70	-3.51099E+05	30.565
650.00	108.93	-2.36192E+05	191.16	-3.60447E+05	28.965
700.00	115.06	-2.30591E+05	199.46	-3.70213E+05	27.625
750.00	120.97	-2.24690E+05	207.60	-3.80390E+05	26.492
800.00	126.78	-2.18496E+05	215.59	-3.90970E+05	25.527

NOCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	44.612	52698.	261.58	-25293.	4.4311
300.00	44.670	52781.	261.86	-25777.	4.4881
350.00	46.068	55050.	268.85	-39049.	5.8275
400.00	47.233	57384.	275.08	-52650.	6.8752
450.00	48.249	59771.	280.71	-66547.	7.7244
500.00	49.157	62207.	285.84	-80712.	8.4317
550.00	49.982	64685.	290.56	-95124.	9.0339
600.00	50.739	67204.	294.94	-1.09763E+05	9.5555
650.00	51.438	69758.	299.03	-1.24613E+05	10.014
700.00	52.084	72347.	302.87	-1.39662E+05	10.421
750.00	52.681	74966.	306.48	-1.54897E+05	10.788
800.00	53.233	77614.	309.90	-1.70307E+05	11.120
850.00	53.742	80289.	313.14	-1.85884E+05	11.423
900.00	54.208	82987.	316.23	-2.01619E+05	11.701
950.00	54.634	85709.	319.17	-2.17504E+05	11.959
1000.0	55.019	88450.	321.98	-2.33534E+05	12.198
1050.0	55.366	91210.	324.68	-2.49701E+05	12.422
1100.0	55.673	93986.	327.26	-2.66000E+05	12.631
1150.0	55.942	96777.	329.74	-2.82425E+05	12.828
1200.0	56.199	99580.	332.13	-2.98972E+05	13.014
1250.0	56.448	1.02396E+05	334.43	-3.15636E+05	13.189
1300.0	56.690	1.05225E+05	336.64	-3.32413E+05	13.356
1350.0	56.927	1.08065E+05	338.79	-3.49299E+05	13.515
1400.0	57.159	1.10917E+05	340.86	-3.66291E+05	13.666
1450.0	57.389	1.13781E+05	342.87	-3.83385E+05	13.811
1500.0	57.616	1.16656E+05	344.82	-4.00577E+05	13.949
1550.0	57.843	1.19543E+05	346.72	-4.17866E+05	14.082
1600.0	58.069	1.22440E+05	348.56	-4.35248E+05	14.209
1650.0	58.294	1.25350E+05	350.35	-4.52721E+05	14.332
1700.0	58.520	1.28270E+05	352.09	-4.70282E+05	14.450
1750.0	58.747	1.31202E+05	353.79	-4.87929E+05	14.564
1800.0	58.975	1.34145E+05	355.45	-5.05660E+05	14.674
1850.0	59.205	1.37099E+05	357.07	-5.23473E+05	14.780
1900.0	59.436	1.40065E+05	358.65	-5.41366E+05	14.883
1950.0	59.669	1.43043E+05	360.19	-5.59337E+05	14.983
2000.0	59.904	1.46032E+05	361.71	-5.77385E+05	15.079
2050.0	60.141	1.49033E+05	363.19	-5.95508E+05	15.173
2100.0	60.381	1.52046E+05	364.64	-6.13703E+05	15.265
2150.0	60.624	1.55071E+05	366.07	-6.31971E+05	15.353
2200.0	60.869	1.58109E+05	367.46	-6.50310E+05	15.440
2250.0	61.118	1.61158E+05	368.83	-6.68717E+05	15.524
2300.0	61.369	1.64220E+05	370.18	-6.87193E+05	15.606
2350.0	61.623	1.67295E+05	371.50	-7.05735E+05	15.686
2400.0	61.880	1.70383E+05	372.80	-7.24342E+05	15.765
2450.0	62.140	1.73483E+05	374.08	-7.43015E+05	15.841
2500.0	62.404	1.76597E+05	375.34	-7.61750E+05	15.915
2550.0	62.671	1.79724E+05	376.58	-7.80548E+05	15.988
2600.0	62.941	1.82864E+05	377.80	-7.99408E+05	16.060
2650.0	63.215	1.86018E+05	379.00	-8.18328E+05	16.130
2700.0	63.492	1.89186E+05	380.18	-8.37307E+05	16.198
2750.0	63.772	1.92367E+05	381.35	-8.56345E+05	16.265
2800.0	64.056	1.95563E+05	382.50	-8.75442E+05	16.331
2850.0	64.344	1.98773E+05	383.64	-8.94595E+05	16.396
2900.0	64.635	2.01997E+05	384.76	-9.13805E+05	16.459
2950.0	64.929	2.05236E+05	385.87	-9.33071E+05	16.521
3000.0	65.228	2.08490E+05	386.96	-9.52392E+05	16.582

NO2Cl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.335	12500.	272.23	-68667.	12.030
300.00	53.483	12599.	272.56	-69171.	12.043
350.00	57.034	15365.	281.09	-83015.	12.389
400.00	59.971	18292.	288.90	-97267.	12.701
450.00	62.492	21355.	296.11	-1.11895E+05	12.988
500.00	64.704	24536.	302.81	-1.26870E+05	13.254
550.00	66.664	27821.	309.07	-1.42169E+05	13.502
600.00	68.409	31199.	314.95	-1.57771E+05	13.735
650.00	69.961	34659.	320.49	-1.73658E+05	13.955
700.00	71.335	38192.	325.72	-1.89814E+05	14.164
750.00	72.542	41790.	330.69	-2.06226E+05	14.362
800.00	73.584	45444.	335.40	-2.22879E+05	14.552
850.00	74.571	49148.	339.89	-2.39762E+05	14.734
900.00	75.413	52898.	344.18	-2.56865E+05	14.908
950.00	76.141	56687.	348.28	-2.74177E+05	15.075
1000.0	76.775	60511.	352.20	-2.91690E+05	15.236
1050.0	77.334	64364.	355.96	-3.09395E+05	15.391
1100.0	77.829	68243.	359.57	-3.27284E+05	15.541
1150.0	78.272	72146.	363.04	-3.45349E+05	15.686
1200.0	78.671	76070.	366.38	-3.63585E+05	15.826
1250.0	79.032	80012.	369.60	-3.81985E+05	15.962
1300.0	79.361	83972.	372.70	-4.00543E+05	16.094
1350.0	79.662	87948.	375.70	-4.19254E+05	16.221
1400.0	79.939	91938.	378.61	-4.38112E+05	16.346
1450.0	80.195	95941.	381.42	-4.57113E+05	16.467
1500.0	80.433	99957.	384.14	-4.76252E+05	16.584
1550.0	80.654	1.03984E+05	386.78	-4.95526E+05	16.699
1600.0	80.861	1.08022E+05	389.34	-5.14929E+05	16.810
1650.0	81.054	1.12070E+05	391.84	-5.34459E+05	16.919
1700.0	81.236	1.16128E+05	394.26	-5.54111E+05	17.025
1750.0	81.407	1.20194E+05	396.62	-5.73884E+05	17.129
1800.0	81.569	1.24268E+05	398.91	-5.93772E+05	17.230
1850.0	81.722	1.28350E+05	401.15	-6.13774E+05	17.329
1900.0	81.866	1.32440E+05	403.33	-6.33886E+05	17.426
1950.0	82.004	1.36537E+05	405.46	-6.54106E+05	17.521
2000.0	82.134	1.40640E+05	407.54	-6.74431E+05	17.614
2050.0	82.258	1.44750E+05	409.57	-6.94859E+05	17.705
2100.0	82.376	1.48866E+05	411.55	-7.15387E+05	17.794
2150.0	82.489	1.52988E+05	413.49	-7.36013E+05	17.881
2200.0	82.596	1.57115E+05	415.39	-7.56735E+05	17.967
2250.0	82.699	1.61247E+05	417.24	-7.77551E+05	18.051
2300.0	82.797	1.65385E+05	419.06	-7.98458E+05	18.133
2350.0	82.890	1.69527E+05	420.84	-8.19456E+05	18.214
2400.0	82.980	1.73674E+05	422.59	-8.40542E+05	18.293
2450.0	83.065	1.77825E+05	424.30	-8.61715E+05	18.372
2500.0	83.147	1.81980E+05	425.98	-8.82972E+05	18.448
2550.0	83.225	1.86139E+05	427.63	-9.04312E+05	18.524
2600.0	83.299	1.90303E+05	429.24	-9.25734E+05	18.598
2650.0	83.370	1.94469E+05	430.83	-9.47236E+05	18.671
2700.0	83.438	1.98640E+05	432.39	-9.68817E+05	18.742
2750.0	83.503	2.02813E+05	433.92	-9.90475E+05	18.813
2800.0	83.565	2.06990E+05	435.43	-1.01221E+06	18.883
2850.0	83.623	2.11169E+05	436.91	-1.03402E+06	18.951
2900.0	83.679	2.15352E+05	438.36	-1.05590E+06	19.018
2950.0	83.732	2.19537E+05	439.79	-1.07785E+06	19.085
3000.0	83.783	2.23725E+05	441.20	-1.09988E+06	19.150

Na

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	28.225	0.00000E+00	51.300	-15295.	2.6796
300.00	28.283	52.270	51.475	-15390.	2.6796
350.00	30.341	1513.9	55.977	-18078.	2.6979
370.87	31.498	2158.9	57.767	-19265.	2.7133
370.87	31.800	4755.9	64.769	-19265.	2.7133
400.00	31.532	5678.3	67.164	-21187.	2.7667
450.00	31.083	7243.6	70.851	-24640.	2.8600
500.00	30.659	8787.1	74.104	-28265.	2.9528
550.00	30.270	10310.	77.008	-32044.	3.0432
600.00	29.920	11815.	79.626	-35961.	3.1306
650.00	29.614	13303.	82.009	-40003.	3.2146
700.00	29.353	14777.	84.194	-44159.	3.2951
750.00	29.139	16239.	86.211	-48419.	3.3721
800.00	28.973	17692.	88.086	-52777.	3.4459
850.00	28.855	19137.	89.839	-57226.	3.5166
900.00	28.787	20578.	91.486	-61759.	3.5843
950.00	28.768	22017.	93.042	-66373.	3.6494
1000.0	28.799	23456.	94.518	-71062.	3.7118
1050.0	28.881	24897.	95.925	-75824.	3.7719
1100.0	29.012	26344.	97.271	-80654.	3.8298
1150.0	29.195	27799.	98.565	-85550.	3.8857
1200.0	29.427	29265.	99.812	-90509.	3.9397
1250.0	29.711	30743.	101.02	-95530.	3.9919
1300.0	30.045	32237.	102.19	-1.00611E+05	4.0425
1350.0	30.430	33748.	103.33	-1.05749E+05	4.0916
1400.0	30.867	35281.	104.45	-1.10943E+05	4.1392
1450.0	31.353	36836.	105.54	-1.16193E+05	4.1856
1500.0	31.891	38417.	106.61	-1.21497E+05	4.2308
1550.0	32.480	40026.	107.66	-1.26854E+05	4.2748
1600.0	33.120	41666.	108.71	-1.32263E+05	4.3178
1650.0	33.811	43339.	109.74	-1.37724E+05	4.3599
1700.0	34.553	45048.	110.76	-1.43236E+05	4.4010
1750.0	35.346	46795.	111.77	-1.48800E+05	4.4413
1800.0	36.191	48583.	112.78	-1.54413E+05	4.4808
1850.0	37.086	50415.	113.78	-1.60077E+05	4.5197
1900.0	38.032	52293.	114.78	-1.65791E+05	4.5578
1950.0	39.030	54219.	115.78	-1.71555E+05	4.5953
2000.0	40.079	56196.	116.78	-1.77369E+05	4.6323

Na<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.773	1.07500E+05	153.72	61670.	-10.804
300.00	20.774	1.07538E+05	153.84	61385.	-10.688
350.00	20.799	1.08578E+05	157.05	53611.	-8.0008
400.00	20.811	1.09618E+05	159.83	45687.	-5.9660
450.00	20.815	1.10659E+05	162.28	37633.	-4.3683
500.00	20.815	1.11700E+05	164.47	29464.	-3.0780
550.00	20.813	1.12740E+05	166.46	21190.	-2.0124
600.00	20.809	1.13781E+05	168.27	12821.	-1.1161
650.00	20.804	1.14821E+05	169.93	4365.5	-0.35081
700.00	20.799	1.15861E+05	171.47	-4170.1	0.31117
750.00	20.794	1.16901E+05	172.91	-12780.	0.89006
800.00	20.789	1.17941E+05	174.25	-21459.	1.4011
850.00	20.783	1.18980E+05	175.51	-30204.	1.8560
900.00	20.779	1.20019E+05	176.70	-39009.	2.2640
950.00	20.774	1.21058E+05	177.82	-47872.	2.6321
1000.0	20.771	1.22096E+05	178.89	-56790.	2.9663
1050.0	20.767	1.23135E+05	179.90	-65760.	3.2713
1100.0	20.764	1.24173E+05	180.87	-74780.	3.5509
1150.0	20.762	1.25211E+05	181.79	-83846.	3.8083
1200.0	20.761	1.26249E+05	182.67	-92958.	4.0462
1250.0	20.760	1.27287E+05	183.52	-1.02113E+05	4.2670
1300.0	20.759	1.28325E+05	184.33	-1.11309E+05	4.4723
1350.0	20.760	1.29363E+05	185.12	-1.20546E+05	4.6641
1400.0	20.760	1.30401E+05	185.87	-1.29821E+05	4.8435
1450.0	20.762	1.31439E+05	186.60	-1.39133E+05	5.0120
1500.0	20.764	1.32478E+05	187.31	-1.48480E+05	5.1704
1550.0	20.767	1.33516E+05	187.99	-1.57863E+05	5.3198
1600.0	20.771	1.34554E+05	188.65	-1.67279E+05	5.4609
1650.0	20.775	1.35593E+05	189.28	-1.76727E+05	5.5946
1700.0	20.780	1.36632E+05	189.90	-1.86207E+05	5.7213
1750.0	20.786	1.37671E+05	190.51	-1.95717E+05	5.8417
1800.0	20.792	1.38710E+05	191.09	-2.05257E+05	5.9563
1850.0	20.799	1.39750E+05	191.66	-2.14826E+05	6.0654
1900.0	20.807	1.40790E+05	192.22	-2.24423E+05	6.1697
1950.0	20.815	1.41831E+05	192.76	-2.34048E+05	6.2693
2000.0	20.824	1.42872E+05	193.29	-2.43699E+05	6.3646
2050.0	20.834	1.43913E+05	193.80	-2.53376E+05	6.4559
2100.0	20.845	1.44955E+05	194.30	-2.63079E+05	6.5436
2150.0	20.856	1.45998E+05	194.79	-2.72806E+05	6.6277
2200.0	20.868	1.47041E+05	195.27	-2.82558E+05	6.7086
2250.0	20.881	1.48085E+05	195.74	-2.92333E+05	6.7865
2300.0	20.894	1.49129E+05	196.20	-3.02132E+05	6.8614
2350.0	20.908	1.50174E+05	196.65	-3.11953E+05	6.9338
2400.0	20.923	1.51220E+05	197.09	-3.21796E+05	7.0035
2450.0	20.938	1.52266E+05	197.52	-3.31662E+05	7.0709
2500.0	20.954	1.53314E+05	197.94	-3.41548E+05	7.1361
2550.0	20.971	1.54362E+05	198.36	-3.51456E+05	7.1991
2600.0	20.989	1.55411E+05	198.77	-3.61384E+05	7.2601
2650.0	21.007	1.56461E+05	199.17	-3.71333E+05	7.3192
2700.0	21.028	1.57511E+05	199.56	-3.81301E+05	7.3765
2750.0	21.048	1.58563E+05	199.95	-3.91289E+05	7.4321
2800.0	21.074	1.59616E+05	200.33	-4.01295E+05	7.4861
2850.0	21.106	1.60671E+05	200.70	-4.11321E+05	7.5385
2900.0	21.144	1.61727E+05	201.07	-4.21365E+05	7.5894
2950.0	21.188	1.62785E+05	201.43	-4.31428E+05	7.6389
3000.0	21.237	1.63846E+05	201.78	-4.41508E+05	7.6871

NaCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.764	-1.81545E+05	229.79	-2.50058E+05	43.808
300.00	35.789	-1.81479E+05	230.02	-2.50483E+05	43.612
350.00	36.321	-1.79675E+05	235.58	-2.62126E+05	39.119
400.00	36.676	-1.77850E+05	240.45	-2.74030E+05	35.784
450.00	36.929	-1.76009E+05	244.78	-2.86162E+05	33.216
500.00	37.119	-1.74158E+05	248.69	-2.98501E+05	31.183
550.00	37.269	-1.72298E+05	252.23	-3.11025E+05	29.538
600.00	37.391	-1.70431E+05	255.48	-3.23719E+05	28.182
650.00	37.494	-1.68559E+05	258.48	-3.36569E+05	27.046
700.00	37.584	-1.66682E+05	261.26	-3.49563E+05	26.084
750.00	37.664	-1.64801E+05	263.85	-3.62692E+05	25.259
800.00	37.737	-1.62916E+05	266.29	-3.75946E+05	24.546
850.00	37.804	-1.61027E+05	268.58	-3.89318E+05	23.924
900.00	37.868	-1.59135E+05	270.74	-4.02801E+05	23.377
950.00	37.929	-1.57241E+05	272.79	-4.16390E+05	22.894
1000.0	37.988	-1.55343E+05	274.74	-4.30079E+05	22.464
1050.0	38.045	-1.53442E+05	276.59	-4.43862E+05	22.080
1100.0	38.101	-1.51538E+05	278.36	-4.57736E+05	21.736
1150.0	38.157	-1.49632E+05	280.06	-4.71697E+05	21.425
1200.0	38.212	-1.47722E+05	281.68	-4.85741E+05	21.143
1250.0	38.267	-1.45810E+05	283.24	-4.99864E+05	20.888
1300.0	38.322	-1.43896E+05	284.74	-5.14064E+05	20.655
1350.0	38.378	-1.41978E+05	286.19	-5.28338E+05	20.442
1400.0	38.433	-1.40058E+05	287.59	-5.42683E+05	20.247
1450.0	38.489	-1.38135E+05	288.94	-5.57096E+05	20.068
1500.0	38.545	-1.36209E+05	290.24	-5.71576E+05	19.904
1550.0	38.603	-1.34280E+05	291.51	-5.86120E+05	19.752
1600.0	38.660	-1.32349E+05	292.74	-6.00726E+05	19.611
1650.0	38.719	-1.30414E+05	293.93	-6.15393E+05	19.481
1700.0	38.778	-1.28477E+05	295.08	-6.30118E+05	19.361
1750.0	38.838	-1.26536E+05	296.21	-6.44900E+05	19.249
1800.0	38.898	-1.24593E+05	297.30	-6.59738E+05	19.145
1850.0	38.960	-1.22647E+05	298.37	-6.74630E+05	19.048
1900.0	39.022	-1.20697E+05	299.41	-6.89575E+05	18.957
1950.0	39.085	-1.18744E+05	300.42	-7.04571E+05	18.873
2000.0	39.150	-1.16789E+05	301.41	-7.19617E+05	18.794
2050.0	39.215	-1.14829E+05	302.38	-7.34712E+05	18.720
2100.0	39.281	-1.12867E+05	303.33	-7.49855E+05	18.651
2150.0	39.348	-1.10901E+05	304.25	-7.65044E+05	18.586
2200.0	39.416	-1.08932E+05	305.16	-7.80279E+05	18.526
2250.0	39.484	-1.06960E+05	306.04	-7.95560E+05	18.469
2300.0	39.554	-1.04984E+05	306.91	-8.10884E+05	18.415
2350.0	39.625	-1.03004E+05	307.76	-8.26251E+05	18.365
2400.0	39.697	-1.01021E+05	308.60	-8.41660E+05	18.318
2450.0	39.770	-99035.	309.42	-8.57110E+05	18.273
2500.0	39.844	-97044.	310.22	-8.72601E+05	18.232
2550.0	39.919	-95050.	311.01	-8.88132E+05	18.192
2600.0	39.995	-93052.	311.79	-9.03702E+05	18.155
2650.0	40.072	-91051.	312.55	-9.19311E+05	18.120
2700.0	40.150	-89045.	313.30	-9.34957E+05	18.087
2750.0	40.229	-87036.	314.04	-9.50641E+05	18.056
2800.0	40.309	-85022.	314.76	-9.66361E+05	18.027
2850.0	40.390	-83005.	315.48	-9.82117E+05	18.000
2900.0	40.472	-80983.	316.18	-9.97909E+05	17.974
2950.0	40.555	-78958.	316.87	-1.01373E+06	17.949
3000.0	40.640	-76928.	317.56	-1.02960E+06	17.926

(NaCl)2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.793	-5.66095E+05	325.45	-6.63127E+05	116.17
300.00	78.846	-5.65949E+05	325.93	-6.63729E+05	115.56
350.00	79.966	-5.61977E+05	338.18	-6.80339E+05	101.53
400.00	80.695	-5.57959E+05	348.91	-6.97522E+05	91.085
450.00	81.196	-5.53911E+05	358.44	-7.15210E+05	83.017
500.00	81.555	-5.49842E+05	367.02	-7.33350E+05	76.611
550.00	81.822	-5.45757E+05	374.80	-7.51898E+05	71.408
600.00	82.026	-5.41661E+05	381.93	-7.70819E+05	67.104
650.00	82.185	-5.37555E+05	388.50	-7.90082E+05	63.490
700.00	82.312	-5.33443E+05	394.60	-8.09662E+05	60.416
750.00	82.415	-5.29325E+05	400.28	-8.29535E+05	57.772
800.00	82.500	-5.25202E+05	405.60	-8.49684E+05	55.477
850.00	82.571	-5.21075E+05	410.61	-8.70090E+05	53.468
900.00	82.631	-5.16945E+05	415.33	-8.90739E+05	51.696
950.00	82.682	-5.12812E+05	419.80	-9.11619E+05	50.123
1000.0	82.726	-5.08677E+05	424.04	-9.32715E+05	48.719
1050.0	82.764	-5.04539E+05	428.08	-9.54019E+05	47.459
1100.0	82.797	-5.00400E+05	431.93	-9.75520E+05	46.322
1150.0	82.826	-4.96260E+05	435.61	-9.97209E+05	45.294
1200.0	82.852	-4.92118E+05	439.13	-1.01908E+06	44.358
1250.0	82.875	-4.87975E+05	442.52	-1.04112E+06	43.505
1300.0	82.896	-4.83830E+05	445.77	-1.06333E+06	42.724
1350.0	82.915	-4.79685E+05	448.90	-1.08569E+06	42.007
1400.0	82.931	-4.75539E+05	451.91	-1.10822E+06	41.347
1450.0	82.947	-4.71392E+05	454.82	-1.13088E+06	40.738
1500.0	82.960	-4.67244E+05	457.63	-1.15370E+06	40.174
1550.0	82.973	-4.63096E+05	460.35	-1.17665E+06	39.652
1600.0	82.985	-4.58947E+05	462.99	-1.19973E+06	39.166
1650.0	82.995	-4.54797E+05	465.54	-1.22294E+06	38.714
1700.0	83.005	-4.50647E+05	468.02	-1.24628E+06	38.293
1750.0	83.014	-4.46497E+05	470.43	-1.26974E+06	37.899
1800.0	83.022	-4.42346E+05	472.77	-1.29332E+06	37.530
1850.0	83.029	-4.38195E+05	475.04	-1.31702E+06	37.185
1900.0	83.036	-4.34043E+05	477.25	-1.34083E+06	36.861
1950.0	83.043	-4.29891E+05	479.41	-1.36474E+06	36.556
2000.0	83.049	-4.25739E+05	481.51	-1.38877E+06	36.270
2050.0	83.054	-4.21586E+05	483.57	-1.41290E+06	36.000
2100.0	83.060	-4.17433E+05	485.57	-1.43712E+06	35.746
2150.0	83.064	-4.13280E+05	487.52	-1.46145E+06	35.505
2200.0	83.069	-4.09127E+05	489.43	-1.48587E+06	35.278
2250.0	83.073	-4.04973E+05	491.30	-1.51039E+06	35.063
2300.0	83.076	-4.00820E+05	493.12	-1.53500E+06	34.860
2350.0	83.080	-3.96666E+05	494.91	-1.55970E+06	34.667
2400.0	83.083	-3.92512E+05	496.66	-1.58449E+06	34.485
2450.0	83.086	-3.88358E+05	498.37	-1.60937E+06	34.311
2500.0	83.088	-3.84203E+05	500.05	-1.63433E+06	34.147
2550.0	83.091	-3.80049E+05	501.70	-1.65937E+06	33.990
2600.0	83.093	-3.75894E+05	503.31	-1.68450E+06	33.841
2650.0	83.095	-3.71739E+05	504.89	-1.70971E+06	33.699
2700.0	83.096	-3.67585E+05	506.45	-1.73499E+06	33.565
2750.0	83.098	-3.63430E+05	507.97	-1.76035E+06	33.436
2800.0	83.099	-3.59275E+05	509.47	-1.78579E+06	33.313
2850.0	83.100	-3.55120E+05	510.94	-1.81130E+06	33.196
2900.0	83.101	-3.50965E+05	512.38	-1.83688E+06	33.085
2950.0	83.102	-3.46810E+05	513.80	-1.86253E+06	32.978
3000.0	83.102	-3.42655E+05	515.20	-1.88826E+06	32.877

NaClO4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	111.32	-3.82752E+05	142.26	-4.25166E+05	74.485
300.00	111.96	-3.82546E+05	142.95	-4.25430E+05	74.072
350.00	126.00	-3.76575E+05	161.33	-4.33039E+05	64.626
400.00	136.06	-3.70011E+05	178.84	-4.41548E+05	57.659
450.00	143.82	-3.63007E+05	195.33	-4.50906E+05	52.339
500.00	150.13	-3.55653E+05	210.82	-4.61064E+05	48.166
550.00	155.51	-3.48009E+05	225.39	-4.71973E+05	44.823
581.00	158.50	-3.43142E+05	234.00	-4.79094E+05	43.072
581.00	158.50	-3.29167E+05	258.05	-4.79095E+05	43.072
600.00	160.24	-3.26139E+05	263.18	-4.84046E+05	42.139
650.00	164.53	-3.18018E+05	276.18	-4.97533E+05	39.981
700.00	168.49	-3.09692E+05	288.52	-5.11653E+05	38.179
750.00	172.20	-3.01174E+05	300.27	-5.26375E+05	36.659

NaBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.334	-1.45929E+05	241.22	-2.17849E+05	38.165
300.00	36.351	-1.45862E+05	241.45	-2.18296E+05	38.008
350.00	36.718	-1.44034E+05	247.08	-2.30512E+05	34.401
400.00	36.970	-1.42192E+05	252.00	-2.42992E+05	31.731
450.00	37.155	-1.40339E+05	256.36	-2.55703E+05	29.680
500.00	37.298	-1.38477E+05	260.29	-2.68621E+05	28.062
550.00	37.415	-1.36609E+05	263.85	-2.81725E+05	26.755
600.00	37.513	-1.34736E+05	267.11	-2.95000E+05	25.681
650.00	37.599	-1.32858E+05	270.11	-3.08432E+05	24.785
700.00	37.677	-1.30976E+05	272.90	-3.22008E+05	24.028
750.00	37.748	-1.29090E+05	275.50	-3.35719E+05	23.381
800.00	37.814	-1.27201E+05	277.94	-3.49556E+05	22.823
850.00	37.877	-1.25309E+05	280.24	-3.63511E+05	22.338
900.00	37.937	-1.23414E+05	282.40	-3.77578E+05	21.913
950.00	37.996	-1.21515E+05	284.46	-3.91750E+05	21.539
1000.0	38.053	-1.19614E+05	286.41	-4.06022E+05	21.208
1050.0	38.110	-1.17710E+05	288.27	-4.20389E+05	20.913
1100.0	38.165	-1.15803E+05	290.04	-4.34847E+05	20.649
1150.0	38.220	-1.13894E+05	291.74	-4.49392E+05	20.411
1200.0	38.275	-1.11981E+05	293.37	-4.64019E+05	20.198
1250.0	38.330	-1.10066E+05	294.93	-4.78727E+05	20.004
1300.0	38.385	-1.08148E+05	296.43	-4.93511E+05	19.829
1350.0	38.441	-1.06227E+05	297.88	-5.08369E+05	19.669
1400.0	38.496	-1.04304E+05	299.28	-5.23299E+05	19.524
1450.0	38.552	-1.02378E+05	300.63	-5.38297E+05	19.391
1500.0	38.608	-1.00449E+05	301.94	-5.53361E+05	19.269
1550.0	38.664	-98517.	303.21	-5.68490E+05	19.158
1600.0	38.721	-96582.	304.44	-5.83682E+05	19.055
1650.0	38.779	-94645.	305.63	-5.98933E+05	18.960
1700.0	38.836	-92705.	306.79	-6.14244E+05	18.873
1750.0	38.895	-90761.	307.91	-6.29612E+05	18.792
1800.0	38.954	-88815.	309.01	-6.45035E+05	18.718
1850.0	39.014	-86866.	310.08	-6.60512E+05	18.649
1900.0	39.074	-84914.	311.12	-6.76042E+05	18.585
1950.0	39.135	-82959.	312.14	-6.91624E+05	18.526
2000.0	39.196	-81000.	313.13	-7.07256E+05	18.471
2050.0	39.258	-79039.	314.10	-7.22936E+05	18.420
2100.0	39.321	-77074.	315.04	-7.38665E+05	18.373
2150.0	39.385	-75107.	315.97	-7.54440E+05	18.329
2200.0	39.449	-73136.	316.88	-7.70261E+05	18.288
2250.0	39.513	-71162.	317.76	-7.86127E+05	18.250
2300.0	39.579	-69185.	318.63	-8.02037E+05	18.214
2350.0	39.645	-67204.	319.48	-8.17990E+05	18.181
2400.0	39.712	-65220.	320.32	-8.33985E+05	18.151
2450.0	39.779	-63233.	321.14	-8.50022E+05	18.122
2500.0	39.848	-61242.	321.94	-8.66099E+05	18.096
2550.0	39.917	-59248.	322.73	-8.82216E+05	18.071
2600.0	39.986	-57250.	323.51	-8.98372E+05	18.048
2650.0	40.057	-55249.	324.27	-9.14567E+05	18.027
2700.0	40.128	-53245.	325.02	-9.30799E+05	18.007
2750.0	40.199	-51237.	325.76	-9.47068E+05	17.989
2800.0	40.272	-49225.	326.48	-9.63374E+05	17.972
2850.0	40.345	-47209.	327.20	-9.79716E+05	17.956
2900.0	40.419	-45190.	327.90	-9.96094E+05	17.941
2950.0	40.494	-43167.	328.59	-1.01251E+06	17.928
3000.0	40.569	-41141.	329.27	-1.02895E+06	17.915

(NaBr)₂<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.310	-4.80849E+05	351.04	-5.85512E+05	102.58
300.00	80.345	-4.80700E+05	351.54	-5.86162E+05	102.06
350.00	81.082	-4.76663E+05	363.98	-6.04057E+05	90.148
400.00	81.561	-4.72596E+05	374.84	-6.22534E+05	81.293
450.00	81.890	-4.68510E+05	384.47	-6.41521E+05	74.464
500.00	82.125	-4.64409E+05	393.11	-6.60964E+05	69.049
550.00	82.299	-4.60298E+05	400.95	-6.80819E+05	64.657
600.00	82.432	-4.56180E+05	408.11	-7.01048E+05	61.030
650.00	82.535	-4.52055E+05	414.72	-7.21621E+05	57.989
700.00	82.617	-4.47927E+05	420.84	-7.42511E+05	55.405
750.00	82.683	-4.43794E+05	426.54	-7.63697E+05	53.187
800.00	82.738	-4.39658E+05	431.88	-7.85159E+05	51.264
850.00	82.783	-4.35520E+05	436.89	-8.06880E+05	49.584
900.00	82.821	-4.31380E+05	441.63	-8.28844E+05	48.104
950.00	82.853	-4.27238E+05	446.10	-8.51038E+05	46.792
1000.0	82.880	-4.23095E+05	450.36	-8.73450E+05	45.623
1050.0	82.904	-4.18950E+05	454.40	-8.96070E+05	44.576
1100.0	82.925	-4.14805E+05	458.26	-9.18887E+05	43.633
1150.0	82.943	-4.10658E+05	461.94	-9.41893E+05	42.781
1200.0	82.959	-4.06510E+05	465.47	-9.65079E+05	42.008
1250.0	82.973	-4.02362E+05	468.86	-9.88438E+05	41.304
1300.0	82.985	-3.98213E+05	472.12	-1.01196E+06	40.660
1350.0	82.996	-3.94064E+05	475.25	-1.03565E+06	40.071
1400.0	83.006	-3.89914E+05	478.27	-1.05949E+06	39.529
1450.0	83.016	-3.85763E+05	481.18	-1.08347E+06	39.030
1500.0	83.024	-3.81612E+05	483.99	-1.10760E+06	38.569
1550.0	83.031	-3.77461E+05	486.72	-1.13187E+06	38.143
1600.0	83.038	-3.73309E+05	489.35	-1.15627E+06	37.747
1650.0	83.044	-3.69157E+05	491.91	-1.18080E+06	37.380
1700.0	83.050	-3.65005E+05	494.39	-1.20546E+06	37.038
1750.0	83.055	-3.60852E+05	496.79	-1.23024E+06	36.720
1800.0	83.060	-3.56699E+05	499.13	-1.25514E+06	36.422
1850.0	83.064	-3.52546E+05	501.41	-1.28015E+06	36.144
1900.0	83.069	-3.48393E+05	503.62	-1.30528E+06	35.884
1950.0	83.072	-3.44239E+05	505.78	-1.33052E+06	35.640
2000.0	83.076	-3.40085E+05	507.89	-1.35586E+06	35.410
2050.0	83.079	-3.35931E+05	509.94	-1.38130E+06	35.195
2100.0	83.082	-3.31777E+05	511.94	-1.40685E+06	34.993
2150.0	83.085	-3.27623E+05	513.89	-1.43250E+06	34.802
2200.0	83.088	-3.23469E+05	515.80	-1.45824E+06	34.622
2250.0	83.091	-3.19314E+05	517.67	-1.48408E+06	34.453
2300.0	83.093	-3.15160E+05	519.50	-1.51001E+06	34.292
2350.0	83.095	-3.11005E+05	521.28	-1.53602E+06	34.141
2400.0	83.097	-3.06850E+05	523.03	-1.56213E+06	33.998
2450.0	83.100	-3.02695E+05	524.75	-1.58833E+06	33.863
2500.0	83.101	-2.98540E+05	526.43	-1.61461E+06	33.735
2550.0	83.103	-2.94385E+05	528.07	-1.64097E+06	33.613
2600.0	83.105	-2.90230E+05	529.69	-1.66741E+06	33.498
2650.0	83.107	-2.86075E+05	531.27	-1.69394E+06	33.389
2700.0	83.108	-2.81919E+05	532.82	-1.72054E+06	33.285
2750.0	83.110	-2.77764E+05	534.35	-1.74722E+06	33.187
2800.0	83.111	-2.73608E+05	535.85	-1.77397E+06	33.093
2850.0	83.112	-2.69453E+05	537.32	-1.80080E+06	33.004
2900.0	83.113	-2.65297E+05	538.76	-1.82771E+06	32.920
2950.0	83.115	-2.61141E+05	540.18	-1.85468E+06	32.839
3000.0	83.116	-2.56986E+05	541.58	-1.88172E+06	32.763

Na2CO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	111.00	-1.13077E+06	138.80	-1.17215E+06	205.35
300.00	111.25	-1.13056E+06	139.48	-1.17241E+06	204.13
350.00	117.74	-1.12484E+06	157.12	-1.17983E+06	176.08
400.00	125.10	-1.11877E+06	173.31	-1.18810E+06	155.15
450.00	133.08	-1.11232E+06	188.49	-1.19714E+06	138.96
500.00	142.21	-1.10545E+06	202.97	-1.20693E+06	126.08
550.00	152.33	-1.09809E+06	216.99	-1.21743E+06	115.62
600.00	163.30	-1.09020E+06	230.71	-1.22863E+06	106.96
650.00	175.06	-1.08174E+06	244.24	-1.24050E+06	99.685
700.00	187.57	-1.07268E+06	257.67	-1.25305E+06	93.501
723.15	193.60	-1.06827E+06	263.87	-1.25909E+06	90.944
723.15	143.72	-1.06758E+06	264.83	-1.25909E+06	90.944
750.00	147.04	-1.06367E+06	270.12	-1.26627E+06	88.189
800.00	153.34	-1.05617E+06	279.82	-1.28002E+06	83.574
850.00	159.76	-1.04834E+06	289.30	-1.29425E+06	79.533
900.00	166.23	-1.04019E+06	298.62	-1.30895E+06	75.967
950.00	172.72	-1.03172E+06	307.78	-1.32411E+06	72.803
1000.0	179.20	-1.02292E+06	316.80	-1.33972E+06	69.978
1050.0	185.65	-1.01380E+06	325.70	-1.35578E+06	67.445
1100.0	192.05	-1.00435E+06	334.49	-1.37229E+06	65.163
1123.1	194.99	-9.99873E+05	338.52	-1.38008E+06	64.182
1123.2	189.54	-9.70208E+05	364.93	-1.38008E+06	64.182
1150.0	189.54	-9.65119E+05	369.41	-1.38994E+06	63.131
1200.0	189.54	-9.55643E+05	377.47	-1.40861E+06	61.314
1250.0	189.54	-9.46166E+05	385.21	-1.42768E+06	59.658
1300.0	189.54	-9.36689E+05	392.64	-1.44713E+06	58.145
1350.0	189.54	-9.27212E+05	399.80	-1.46694E+06	56.758
1400.0	189.54	-9.17736E+05	406.69	-1.48710E+06	55.483
1450.0	189.54	-9.08259E+05	413.34	-1.50760E+06	54.308
1500.0	189.54	-8.98782E+05	419.77	-1.52843E+06	53.223
1550.0	189.54	-8.89305E+05	425.98	-1.54958E+06	52.219
1600.0	189.54	-8.79829E+05	432.00	-1.57103E+06	51.288
1650.0	189.54	-8.70352E+05	437.83	-1.59277E+06	50.422
1700.0	189.54	-8.60875E+05	443.49	-1.61481E+06	49.616
1750.0	189.54	-8.51398E+05	448.98	-1.63712E+06	48.864
1800.0	189.54	-8.41922E+05	454.32	-1.65970E+06	48.162
1850.0	189.54	-8.32445E+05	459.52	-1.68255E+06	47.506
1900.0	189.54	-8.22968E+05	464.57	-1.70565E+06	46.891
1950.0	189.54	-8.13491E+05	469.49	-1.72901E+06	46.314
2000.0	189.54	-8.04015E+05	474.29	-1.75260E+06	45.772
2050.0	189.54	-7.94538E+05	478.97	-1.77643E+06	45.263
2100.0	189.54	-7.85061E+05	483.54	-1.80050E+06	44.784
2150.0	189.54	-7.75584E+05	488.00	-1.82479E+06	44.332
2200.0	189.54	-7.66107E+05	492.36	-1.84930E+06	43.907
2250.0	189.54	-7.56631E+05	496.62	-1.87402E+06	43.505
2300.0	189.54	-7.47154E+05	500.78	-1.89896E+06	43.126
2350.0	189.54	-7.37677E+05	504.86	-1.92410E+06	42.767
2400.0	189.54	-7.28200E+05	508.85	-1.94944E+06	42.427
2450.0	189.54	-7.18724E+05	512.76	-1.97498E+06	42.106
2500.0	189.54	-7.09247E+05	516.59	-2.00071E+06	41.802
2550.0	189.54	-6.99770E+05	520.34	-2.02664E+06	41.513
2600.0	189.54	-6.90293E+05	524.02	-2.05275E+06	41.239
2650.0	189.54	-6.80817E+05	527.63	-2.07904E+06	40.979
2700.0	189.54	-6.71340E+05	531.17	-2.10551E+06	40.732
2750.0	189.54	-6.61863E+05	534.65	-2.13216E+06	40.498
2800.0	189.54	-6.52386E+05	538.07	-2.15897E+06	40.275
2850.0	189.54	-6.42910E+05	541.42	-2.18596E+06	40.063
2900.0	189.54	-6.33433E+05	544.72	-2.21311E+06	39.861
2950.0	189.54	-6.23956E+05	547.96	-2.24043E+06	39.670
3000.0	189.54	-6.14479E+05	551.14	-2.26791E+06	39.487

(NaCN) 2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	107.69	-8786.4	347.10	-1.12273E+05	19.669
300.00	107.79	-8587.1	347.76	-1.12916E+05	19.660
350.00	110.02	-3139.0	364.56	-1.30733E+05	19.510
400.00	111.75	2406.9	379.36	-1.49339E+05	19.501
450.00	113.18	8030.9	392.61	-1.68644E+05	19.575
500.00	114.42	13722.	404.60	-1.88579E+05	19.700
550.00	115.55	19471.	415.56	-2.09087E+05	19.857
600.00	116.61	25276.	425.66	-2.30121E+05	20.033
650.00	117.60	31131.	435.03	-2.51641E+05	20.222
700.00	118.56	37035.	443.78	-2.73614E+05	20.417
750.00	119.49	42986.	452.00	-2.96010E+05	20.615
800.00	120.40	48984.	459.74	-3.18805E+05	20.815
850.00	121.25	55025.	467.06	-3.41977E+05	21.015
900.00	122.02	61107.	474.01	-3.65505E+05	21.213
950.00	122.72	67226.	480.63	-3.89373E+05	21.409
1000.0	123.37	73379.	486.94	-4.13563E+05	21.602
1050.0	123.96	79562.	492.98	-4.38062E+05	21.792
1100.0	124.52	85774.	498.76	-4.62857E+05	21.979
1150.0	125.03	92013.	504.30	-4.87934E+05	22.162
1200.0	125.51	98276.	509.63	-5.13283E+05	22.342
1250.0	125.95	1.04563E+05	514.77	-5.38894E+05	22.519
1300.0	126.36	1.10871E+05	519.71	-5.64757E+05	22.692
1350.0	126.75	1.17199E+05	524.49	-5.90862E+05	22.861
1400.0	127.11	1.23545E+05	529.11	-6.17203E+05	23.028
1450.0	127.44	1.29909E+05	533.57	-6.43770E+05	23.191
1500.0	127.75	1.36289E+05	537.90	-6.70558E+05	23.350
1550.0	128.04	1.42684E+05	542.09	-6.97558E+05	23.507
1600.0	128.30	1.49092E+05	546.16	-7.24765E+05	23.661
1650.0	128.54	1.55514E+05	550.11	-7.52172E+05	23.811
1700.0	128.76	1.61946E+05	553.95	-7.79774E+05	23.959
1750.0	128.96	1.68390E+05	557.69	-8.07566E+05	24.104
1800.0	129.14	1.74842E+05	561.32	-8.35541E+05	24.246
1850.0	129.33	1.81304E+05	564.87	-8.63697E+05	24.386
1900.0	129.51	1.87775E+05	568.32	-8.92026E+05	24.523
1950.0	129.67	1.94255E+05	571.68	-9.20527E+05	24.658
2000.0	129.82	2.00742E+05	574.97	-9.49193E+05	24.790
2050.0	129.96	2.07237E+05	578.18	-9.78022E+05	24.920
2100.0	130.09	2.13738E+05	581.31	-1.00701E+06	25.047
2150.0	130.21	2.20246E+05	584.37	-1.03615E+06	25.173
2200.0	130.33	2.26759E+05	587.37	-1.06545E+06	25.296
2250.0	130.44	2.33278E+05	590.30	-1.09489E+06	25.418
2300.0	130.54	2.39803E+05	593.16	-1.12447E+06	25.537
2350.0	130.63	2.46332E+05	595.97	-1.15420E+06	25.654
2400.0	130.72	2.52866E+05	598.72	-1.18407E+06	25.770
2450.0	130.81	2.59404E+05	601.42	-1.21407E+06	25.884
2500.0	130.89	2.65947E+05	604.06	-1.24421E+06	25.996
2550.0	130.96	2.72493E+05	606.66	-1.27448E+06	26.106
2600.0	131.04	2.79043E+05	609.20	-1.30488E+06	26.215
2650.0	131.10	2.85597E+05	611.70	-1.33540E+06	26.322
2700.0	131.17	2.92153E+05	614.15	-1.36605E+06	26.427
2750.0	131.23	2.98713E+05	616.56	-1.39681E+06	26.531
2800.0	131.29	3.05276E+05	618.92	-1.42770E+06	26.633
2850.0	131.35	3.11842E+05	621.24	-1.45870E+06	26.734
2900.0	131.40	3.18411E+05	623.53	-1.48982E+06	26.834
2950.0	131.45	3.24982E+05	625.78	-1.52106E+06	26.932
3000.0	131.50	3.31556E+05	627.99	-1.55240E+06	27.029

Nb

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.435	0.00000E+00	36.270	-10814.	1.8945
300.00	24.463	45.231	36.421	-10881.	1.8945
350.00	25.061	1284.3	40.240	-12800.	1.9102
400.00	25.477	2548.3	43.615	-14898.	1.9454
450.00	25.791	3830.4	46.635	-17155.	1.9913
500.00	26.046	5126.5	49.366	-19556.	2.0430
550.00	26.265	6434.3	51.859	-22088.	2.0977
600.00	26.464	7752.6	54.153	-24739.	2.1537
650.00	26.652	9080.6	56.279	-27500.	2.2099
700.00	26.834	10418.	58.260	-30364.	2.2658
750.00	27.015	11764.	60.118	-33324.	2.3209
800.00	27.198	13119.	61.867	-36374.	2.3750
850.00	27.384	14484.	63.522	-39510.	2.4279
900.00	27.576	15858.	65.092	-42725.	2.4796
950.00	27.773	17242.	66.589	-46018.	2.5302
1000.0	27.978	18635.	68.018	-49383.	2.5794
1050.0	28.190	20039.	69.388	-52818.	2.6275
1100.0	28.411	21454.	70.705	-56321.	2.6744
1150.0	28.640	22881.	71.973	-59888.	2.7201
1200.0	28.878	24319.	73.197	-63518.	2.7648
1250.0	29.125	25769.	74.381	-67207.	2.8084
1300.0	29.382	27231.	75.528	-70955.	2.8509
1350.0	29.648	28707.	76.642	-74759.	2.8925
1400.0	29.923	30196.	77.725	-78619.	2.9332
1450.0	30.209	31700.	78.780	-82531.	2.9730
1500.0	30.504	33217.	79.809	-86496.	3.0120
1550.0	30.810	34750.	80.814	-90512.	3.0502
1600.0	31.125	36298.	81.797	-94577.	3.0876
1650.0	31.450	37863.	82.760	-98691.	3.1242
1700.0	31.786	39444.	83.704	-1.02853E+05	3.1602
1750.0	32.131	41042.	84.630	-1.07061E+05	3.1955
1800.0	32.487	42657.	85.540	-1.11316E+05	3.2302
1850.0	32.853	44290.	86.435	-1.15615E+05	3.2643
1900.0	33.230	45942.	87.317	-1.19959E+05	3.2978
1950.0	33.616	47614.	88.185	-1.24347E+05	3.3308
2000.0	34.013	49304.	89.041	-1.28777E+05	3.3632
2050.0	34.421	51015.	89.886	-1.33250E+05	3.3952
2100.0	34.838	52746.	90.720	-1.37766E+05	3.4266
2150.0	35.266	54499.	91.545	-1.42322E+05	3.4577
2200.0	35.705	56273.	92.361	-1.46920E+05	3.4882
2250.0	36.153	58070.	93.168	-1.51558E+05	3.5184
2300.0	36.613	59889.	93.968	-1.56237E+05	3.5482
2350.0	37.082	61731.	94.760	-1.60955E+05	3.5775
2400.0	37.562	63597.	95.546	-1.65713E+05	3.6065
2450.0	38.052	65488.	96.325	-1.70509E+05	3.6352
2500.0	38.553	67403.	97.099	-1.75345E+05	3.6635
2550.0	39.065	69343.	97.868	-1.80219E+05	3.6915
2600.0	39.586	71309.	98.631	-1.85132E+05	3.7192
2650.0	40.118	73302.	99.390	-1.90082E+05	3.7467
2700.0	40.661	75321.	100.15	-1.95071E+05	3.7738
2750.0	41.214	77368.	100.90	-2.00097E+05	3.8006
2750.0	41.770	1.07368E+05	111.81	-2.00097E+05	3.8006
2750.0	41.770	1.07368E+05	111.81	-2.00097E+05	3.8006
2800.0	41.770	1.09457E+05	112.56	-2.05706E+05	3.8374
2850.0	41.770	1.11545E+05	113.30	-2.11352E+05	3.8736
2900.0	41.770	1.13634E+05	114.02	-2.17035E+05	3.9091
2950.0	41.770	1.15722E+05	114.74	-2.22754E+05	3.9441
3000.0	41.770	1.17811E+05	115.44	-2.28509E+05	3.9786

NbBr5<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	125.81	-4.43588E+05	449.25	-5.77532E+05	101.18
300.00	125.90	-4.43355E+05	450.03	-5.78364E+05	100.70
350.00	127.69	-4.37012E+05	469.58	-6.01366E+05	89.747
400.00	128.88	-4.30596E+05	486.72	-6.25283E+05	81.651
450.00	129.70	-4.24130E+05	501.95	-6.50006E+05	75.449
500.00	130.29	-4.17630E+05	515.64	-6.75452E+05	70.562
550.00	130.74	-4.11103E+05	528.08	-7.01550E+05	66.626
600.00	131.09	-4.04557E+05	539.48	-7.28243E+05	63.398
650.00	131.37	-3.97995E+05	549.98	-7.55483E+05	60.710
700.00	131.59	-3.91421E+05	559.72	-7.83228E+05	58.444
750.00	131.77	-3.84837E+05	568.81	-8.11444E+05	56.513
800.00	131.92	-3.78245E+05	577.32	-8.40099E+05	54.851
850.00	132.05	-3.71645E+05	585.32	-8.69167E+05	53.411
900.00	132.16	-3.65040E+05	592.87	-8.98624E+05	52.153
950.00	132.25	-3.58429E+05	600.02	-9.28448E+05	51.048
1000.0	132.33	-3.51815E+05	606.81	-9.58620E+05	50.072
1050.0	132.40	-3.45196E+05	613.26	-9.89123E+05	49.205
1100.0	132.46	-3.38574E+05	619.42	-1.01994E+06	48.432
1150.0	132.51	-3.31950E+05	625.31	-1.05106E+06	47.739
1200.0	132.56	-3.25323E+05	630.95	-1.08247E+06	47.117
1250.0	132.59	-3.18694E+05	636.37	-1.11415E+06	46.557
1300.0	132.62	-3.12064E+05	641.57	-1.14610E+06	46.050
1350.0	132.65	-3.05432E+05	646.57	-1.17831E+06	45.590
1400.0	132.67	-2.98799E+05	651.40	-1.21076E+06	45.173
1450.0	132.69	-2.92165E+05	656.05	-1.24344E+06	44.793
1500.0	132.72	-2.85530E+05	660.55	-1.27636E+06	44.446
1550.0	132.74	-2.78893E+05	664.90	-1.30950E+06	44.129
1600.0	132.75	-2.72256E+05	669.12	-1.34285E+06	43.838
1650.0	132.77	-2.65618E+05	673.20	-1.37641E+06	43.572
1700.0	132.78	-2.58979E+05	677.17	-1.41017E+06	43.328
1750.0	132.80	-2.52339E+05	681.02	-1.44412E+06	43.104
1800.0	132.81	-2.45699E+05	684.76	-1.47827E+06	42.897
1850.0	132.82	-2.39058E+05	688.40	-1.51259E+06	42.707
1900.0	132.83	-2.32417E+05	691.94	-1.54710E+06	42.532
1950.0	132.84	-2.25775E+05	695.39	-1.58179E+06	42.370
2000.0	132.85	-2.19133E+05	698.75	-1.61664E+06	42.221
2050.0	132.86	-2.12490E+05	702.03	-1.65166E+06	42.084
2100.0	132.87	-2.05847E+05	705.24	-1.68684E+06	41.957
2150.0	132.88	-1.99203E+05	708.36	-1.72218E+06	41.840
2200.0	132.88	-1.92559E+05	711.42	-1.75768E+06	41.732
2250.0	132.89	-1.85915E+05	714.40	-1.79332E+06	41.632
2300.0	132.89	-1.79270E+05	717.32	-1.82912E+06	41.540
2350.0	132.90	-1.72625E+05	720.18	-1.86506E+06	41.454
2400.0	132.91	-1.65980E+05	722.98	-1.90113E+06	41.376
2450.0	132.91	-1.59335E+05	725.72	-1.93735E+06	41.304
2500.0	132.92	-1.52689E+05	728.41	-1.97371E+06	41.237
2550.0	132.92	-1.46043E+05	731.04	-2.01019E+06	41.176
2600.0	132.92	-1.39397E+05	733.62	-2.04681E+06	41.120
2650.0	132.93	-1.32751E+05	736.15	-2.08355E+06	41.068
2700.0	132.93	-1.26104E+05	738.64	-2.12042E+06	41.021
2750.0	132.94	-1.19458E+05	741.08	-2.15742E+06	40.978
2800.0	132.94	-1.12811E+05	743.47	-2.19453E+06	40.938
2850.0	132.94	-1.06164E+05	745.82	-2.23176E+06	40.903
2900.0	132.94	-99517.	748.14	-2.26911E+06	40.870
2950.0	132.95	-92869.	750.41	-2.30658E+06	40.841
3000.0	132.95	-86222.	752.64	-2.34415E+06	40.814

NbBr5

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	147.90	-5.56054E+05	258.78	-6.33209E+05	110.93
300.00	147.90	-5.55780E+05	259.69	-6.33689E+05	110.33
350.00	147.90	-5.48385E+05	282.49	-6.47258E+05	96.596
400.00	147.90	-5.40990E+05	302.24	-6.61887E+05	86.431
450.00	147.90	-5.33594E+05	319.66	-6.77444E+05	78.634
500.00	147.90	-5.26199E+05	335.25	-6.93823E+05	72.481
527.00	147.90	-5.22206E+05	343.03	-7.02981E+05	69.676
527.00	213.99	-4.98189E+05	388.60	-7.02981E+05	69.676
550.00	211.70	-4.93294E+05	397.69	-7.12024E+05	67.621
600.00	206.40	-4.82840E+05	415.89	-7.32372E+05	63.757
650.00	200.64	-4.72662E+05	432.18	-7.53581E+05	60.557
700.00	194.43	-4.62783E+05	446.83	-7.75563E+05	57.872
750.00	187.75	-4.53226E+05	460.02	-7.98240E+05	55.593
800.00	180.61	-4.44015E+05	471.91	-8.21543E+05	53.640

NbB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	47.885	-2.51040E+05	37.656	-2.62267E+05	45.947
300.00	48.087	-2.50951E+05	37.953	-2.62337E+05	45.676
350.00	52.789	-2.48424E+05	45.735	-2.64431E+05	39.463
400.00	56.516	-2.45688E+05	53.035	-2.66903E+05	34.853
450.00	59.678	-2.42782E+05	59.879	-2.69727E+05	31.308
500.00	62.488	-2.39726E+05	66.314	-2.72884E+05	28.507
550.00	65.068	-2.36537E+05	72.393	-2.76353E+05	26.245
600.00	67.492	-2.33222E+05	78.159	-2.80118E+05	24.386
650.00	69.806	-2.29789E+05	83.653	-2.84164E+05	22.835
700.00	72.039	-2.26243E+05	88.909	-2.88479E+05	21.526
750.00	74.214	-2.22586E+05	93.953	-2.93051E+05	20.409
800.00	76.343	-2.18822E+05	98.811	-2.97871E+05	19.449
850.00	78.438	-2.14953E+05	103.50	-3.02930E+05	18.615
900.00	80.505	-2.10979E+05	108.04	-3.08219E+05	17.888
950.00	82.551	-2.06902E+05	112.45	-3.13732E+05	17.250
1000.0	84.580	-2.02724E+05	116.74	-3.19462E+05	16.687
1050.0	86.594	-1.98445E+05	120.91	-3.25404E+05	16.188
1100.0	88.596	-1.94065E+05	124.99	-3.31552E+05	15.744
1150.0	90.589	-1.89585E+05	128.97	-3.37901E+05	15.348
1200.0	92.574	-1.85006E+05	132.87	-3.44447E+05	14.993
1250.0	94.552	-1.80328E+05	136.69	-3.51187E+05	14.675
1300.0	96.524	-1.75551E+05	140.43	-3.58115E+05	14.389
1350.0	98.492	-1.70676E+05	144.11	-3.65229E+05	14.131
1400.0	100.45	-1.65702E+05	147.73	-3.72525E+05	13.899

Nd

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.405	0.00000E+00	71.086	-21194.	3.7131
300.00	27.431	50.723	71.256	-21326.	3.7131
350.00	28.106	1439.2	75.535	-24998.	3.7307
400.00	28.789	2861.5	79.332	-28871.	3.7701
450.00	29.512	4318.8	82.764	-32925.	3.8218
500.00	30.289	5813.6	85.913	-37143.	3.8802
550.00	31.130	7348.8	88.839	-41513.	3.9425
600.00	32.040	8927.7	91.586	-46024.	4.0067
650.00	33.023	10554.	94.189	-50669.	4.0717
700.00	34.080	12231.	96.675	-55441.	4.1370
750.00	35.214	13963.	99.064	-60335.	4.2020
800.00	36.425	15754.	101.38	-65346.	4.2666
850.00	37.715	17607.	103.62	-70471.	4.3305
900.00	39.079	19527.	105.82	-75708.	4.3938
950.00	40.499	21516.	107.97	-81052.	4.4565
1000.0	41.974	23578.	110.08	-86504.	4.5184
1050.0	43.502	25714.	112.17	-92060.	4.5796
1100.0	45.085	27929.	114.23	-97720.	4.6402
1128.0	45.995	29204.	115.37	-1.00934E+05	4.6739
1128.0	44.560	32233.	118.06	-1.00934E+05	4.6739
1150.0	44.560	33213.	118.92	-1.03541E+05	4.7029
1200.0	44.560	35441.	120.81	-1.09534E+05	4.7678
1250.0	44.560	37669.	122.63	-1.15621E+05	4.8314
1289.0	44.560	39407.	124.00	-1.20430E+05	4.8801
1289.0	48.785	46549.	129.54	-1.20430E+05	4.8801
1300.0	48.785	47086.	129.96	-1.21858E+05	4.8962
1350.0	48.785	49525.	131.80	-1.28402E+05	4.9680
1400.0	48.785	51964.	133.57	-1.35036E+05	5.0381
1450.0	48.785	54404.	135.28	-1.41758E+05	5.1065
1500.0	48.785	56843.	136.94	-1.48564E+05	5.1733
1550.0	48.785	59282.	138.54	-1.55451E+05	5.2385
1600.0	48.785	61721.	140.09	-1.62417E+05	5.3022
1650.0	48.785	64161.	141.59	-1.69459E+05	5.3645
1700.0	48.785	66600.	143.04	-1.76575E+05	5.4253
1750.0	48.785	69039.	144.46	-1.83762E+05	5.4849
1800.0	48.785	71478.	145.83	-1.91020E+05	5.5431
1850.0	48.785	73918.	147.17	-1.98345E+05	5.6001
1900.0	48.785	76357.	148.47	-2.05736E+05	5.6559
1950.0	48.785	78796.	149.74	-2.13191E+05	5.7106
2000.0	48.785	81236.	150.97	-2.20709E+05	5.7642

Ni

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.744	0.00000E+00	29.795	-8883.5	1.5563
300.00	25.779	47.659	29.955	-8938.8	1.5563
350.00	26.737	1360.3	34.000	-10540.	1.5729
400.00	27.836	2723.8	37.640	-12332.	1.6104
450.00	29.191	4148.2	40.994	-14299.	1.6597
500.00	30.862	5648.2	44.153	-16428.	1.7162
550.00	33.053	7244.1	47.193	-18712.	1.7771
600.00	36.278	8971.0	50.196	-21147.	1.8410
650.00	32.025	10768.	53.076	-23732.	1.9070
700.00	30.908	12335.	55.400	-26445.	1.9733
750.00	30.714	13874.	57.523	-29268.	2.0384
800.00	30.813	15411.	59.507	-32194.	2.1020
850.00	31.053	16957.	61.382	-35217.	2.1641
900.00	31.352	18517.	63.165	-38331.	2.2246
950.00	31.698	20093.	64.869	-41532.	2.2835
1000.0	32.078	21688.	66.505	-44817.	2.3409
1050.0	32.487	23302.	68.079	-48182.	2.3968
1100.0	32.916	24937.	69.601	-51624.	2.4514
1150.0	33.361	26593.	71.073	-55141.	2.5045
1200.0	33.818	28273.	72.503	-58731.	2.5564
1250.0	34.285	29975.	73.893	-62391.	2.6071
1300.0	34.757	31701.	75.247	-66119.	2.6566
1350.0	35.234	33451.	76.567	-69915.	2.7051
1400.0	35.713	35225.	77.857	-73775.	2.7525
1450.0	36.194	37023.	79.119	-77700.	2.7990
1500.0	36.674	38844.	80.354	-81687.	2.8445
1550.0	37.153	40690.	81.564	-85735.	2.8892
1600.0	37.629	42559.	82.752	-89843.	2.9330
1650.0	38.104	44453.	83.917	-94010.	2.9760
1700.0	38.574	46370.	85.061	-98234.	3.0183
1728.3	38.839	47465.	85.700	-1.00651E+05	3.0419
1728.3	43.100	64945.	95.814	-1.00651E+05	3.0419
1750.0	43.100	65880.	96.352	-1.02736E+05	3.0664
1800.0	43.100	68035.	97.566	-1.07584E+05	3.1219
1850.0	43.100	70190.	98.747	-1.12492E+05	3.1761
1900.0	43.100	72345.	99.896	-1.17458E+05	3.2291
1950.0	43.100	74500.	101.02	-1.22481E+05	3.2808
2000.0	43.100	76655.	102.11	-1.27559E+05	3.3314
2050.0	43.100	78810.	103.17	-1.32691E+05	3.3809
2100.0	43.100	80965.	104.21	-1.37876E+05	3.4294
2150.0	43.100	83120.	105.22	-1.43112E+05	3.4768
2200.0	43.100	85275.	106.22	-1.48398E+05	3.5233
2250.0	43.100	87430.	107.18	-1.53733E+05	3.5689
2300.0	43.100	89585.	108.13	-1.59116E+05	3.6135
2350.0	43.100	91740.	109.06	-1.64546E+05	3.6573
2400.0	43.100	93895.	109.97	-1.70021E+05	3.7003
2450.0	43.100	96050.	110.85	-1.75542E+05	3.7425
2500.0	43.100	98205.	111.72	-1.81106E+05	3.7839
2550.0	43.100	1.00360E+05	112.58	-1.86714E+05	3.8246
2600.0	43.100	1.02515E+05	113.42	-1.92364E+05	3.8645
2650.0	43.100	1.04670E+05	114.24	-1.98055E+05	3.9038
2700.0	43.100	1.06825E+05	115.04	-2.03787E+05	3.9424
2750.0	43.100	1.08980E+05	115.83	-2.09559E+05	3.9804
2800.0	43.100	1.11135E+05	116.61	-2.15370E+05	4.0177
2850.0	43.100	1.13290E+05	117.37	-2.21220E+05	4.0544
2900.0	43.100	1.15445E+05	118.12	-2.27107E+05	4.0905
2950.0	43.100	1.17600E+05	118.86	-2.33032E+05	4.1261
3000.0	43.100	1.19755E+05	119.58	-2.38993E+05	4.1611

NiCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	40.187	1.70233E+05	245.45	97051.	-17.003
300.00	40.237	1.70307E+05	245.70	96597.	-16.819
350.00	41.289	1.72348E+05	251.99	84151.	-12.559
400.00	41.966	1.74430E+05	257.55	71410.	-9.3250
450.00	42.421	1.76541E+05	262.52	58406.	-6.7794
500.00	42.736	1.78670E+05	267.01	45166.	-4.7183
550.00	42.955	1.80813E+05	271.09	31712.	-3.0117
600.00	43.107	1.82964E+05	274.84	18062.	-1.5724
650.00	43.209	1.85122E+05	278.29	4233.1	-0.34016
700.00	43.273	1.87285E+05	281.50	-9762.6	0.72847
750.00	43.305	1.89449E+05	284.48	-23913.	1.6654
800.00	43.313	1.91615E+05	287.28	-38208.	2.4946
850.00	43.284	1.93780E+05	289.90	-52638.	3.2346
900.00	43.262	1.95943E+05	292.38	-67195.	3.8998
950.00	43.246	1.98106E+05	294.71	-81873.	4.5016
1000.0	43.237	2.00268E+05	296.93	-96665.	5.0491
1050.0	43.234	2.02430E+05	299.04	-1.11565E+05	5.5499
1100.0	43.236	2.04591E+05	301.05	-1.26567E+05	6.0100
1150.0	43.244	2.06753E+05	302.98	-1.41669E+05	6.4346
1200.0	43.258	2.08916E+05	304.82	-1.56864E+05	6.8279
1250.0	43.276	2.11079E+05	306.58	-1.72149E+05	7.1935
1300.0	43.300	2.13244E+05	308.28	-1.87521E+05	7.5345
1350.0	43.329	2.15409E+05	309.91	-2.02976E+05	7.8534
1400.0	43.364	2.17577E+05	311.49	-2.18511E+05	8.1526
1450.0	43.403	2.19746E+05	313.01	-2.34124E+05	8.4339
1500.0	43.447	2.21917E+05	314.49	-2.49812E+05	8.6990
1550.0	43.496	2.24091E+05	315.91	-2.65572E+05	8.9495
1600.0	43.550	2.26267E+05	317.29	-2.81402E+05	9.1866
1650.0	43.608	2.28446E+05	318.63	-2.97301E+05	9.4115
1700.0	43.672	2.30628E+05	319.94	-3.13265E+05	9.6252
1750.0	43.740	2.32813E+05	321.20	-3.29294E+05	9.8286
1800.0	43.813	2.35002E+05	322.44	-3.45385E+05	10.023
1850.0	43.891	2.37194E+05	323.64	-3.61537E+05	10.208
1900.0	43.974	2.39391E+05	324.81	-3.77748E+05	10.385
1950.0	44.061	2.41592E+05	325.95	-3.94017E+05	10.554
2000.0	44.153	2.43797E+05	327.07	-4.10343E+05	10.717
2050.0	44.250	2.46007E+05	328.16	-4.26724E+05	10.873
2100.0	44.353	2.48222E+05	329.23	-4.43159E+05	11.023
2150.0	44.438	2.50442E+05	330.27	-4.59646E+05	11.167
2200.0	44.531	2.52666E+05	331.30	-4.76186E+05	11.306
2250.0	44.629	2.54895E+05	332.30	-4.92776E+05	11.440
2300.0	44.732	2.57129E+05	333.28	-5.09415E+05	11.569
2350.0	44.840	2.59368E+05	334.24	-5.26103E+05	11.694
2400.0	44.951	2.61613E+05	335.19	-5.42839E+05	11.814
2450.0	45.065	2.63864E+05	336.12	-5.59622E+05	11.931
2500.0	45.183	2.66120E+05	337.03	-5.76451E+05	12.044
2550.0	45.302	2.68382E+05	337.92	-5.93325E+05	12.153
2600.0	45.423	2.70650E+05	338.80	-6.10243E+05	12.260
2650.0	45.545	2.72924E+05	339.67	-6.27205E+05	12.363
2700.0	45.669	2.75204E+05	340.52	-6.44210E+05	12.463
2750.0	45.793	2.77491E+05	341.36	-6.61257E+05	12.560
2800.0	45.918	2.79784E+05	342.19	-6.78346E+05	12.654
2850.0	46.043	2.82083E+05	343.00	-6.95476E+05	12.746
2900.0	46.168	2.84388E+05	343.80	-7.12646E+05	12.836
2950.0	46.293	2.86700E+05	344.60	-7.29856E+05	12.923
3000.0	46.417	2.89017E+05	345.37	-7.47105E+05	13.008

NiCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	58.088	-73990.	294.36	-1.61755E+05	28.338
300.00	58.160	-73882.	294.72	-1.62300E+05	28.258
350.00	59.744	-70932.	303.82	-1.77268E+05	26.455
400.00	60.878	-67915.	311.87	-1.92664E+05	25.159
450.00	61.741	-64849.	319.09	-2.08441E+05	24.195
500.00	62.429	-61744.	325.64	-2.24562E+05	23.459
550.00	62.996	-58608.	331.61	-2.40995E+05	22.887
600.00	63.474	-55446.	337.12	-2.57715E+05	22.436
650.00	63.884	-52262.	342.21	-2.74700E+05	22.075
700.00	64.239	-49059.	346.96	-2.91931E+05	21.784
750.00	64.548	-45839.	351.40	-3.09391E+05	21.547
800.00	64.817	-42605.	355.58	-3.27066E+05	21.355
850.00	65.052	-39358.	359.51	-3.44945E+05	21.197
900.00	65.255	-36100.	363.24	-3.63014E+05	21.068
950.00	65.429	-32833.	366.77	-3.81265E+05	20.963
1000.0	65.577	-29557.	370.13	-3.99689E+05	20.877
1050.0	65.701	-26275.	373.33	-4.18276E+05	20.808
1100.0	65.806	-22988.	376.39	-4.37020E+05	20.752
1150.0	65.894	-19695.	379.32	-4.55913E+05	20.708
1200.0	65.969	-16398.	382.13	-4.74949E+05	20.673
1250.0	66.033	-13098.	384.82	-4.94124E+05	20.648
1300.0	66.088	-9795.2	387.41	-5.13430E+05	20.629
1350.0	66.135	-6489.6	389.91	-5.32863E+05	20.617
1400.0	66.174	-3181.9	392.31	-5.52419E+05	20.610
1450.0	66.209	127.73	394.63	-5.72093E+05	20.608
1500.0	66.238	3438.9	396.88	-5.91881E+05	20.611
1550.0	66.263	6751.5	399.05	-6.11780E+05	20.616
1600.0	66.285	10065.	401.16	-6.31785E+05	20.625
1650.0	66.303	13380.	403.20	-6.51894E+05	20.637
1700.0	66.319	16695.	405.18	-6.72104E+05	20.651
1750.0	66.333	20012.	407.10	-6.92411E+05	20.667
1800.0	66.345	23329.	408.97	-7.12813E+05	20.685
1850.0	66.355	26646.	410.79	-7.33307E+05	20.704
1900.0	66.364	29964.	412.56	-7.53891E+05	20.725
1950.0	66.372	33283.	414.28	-7.74562E+05	20.748
2000.0	66.379	36601.	415.96	-7.95318E+05	20.771
2050.0	66.384	39921.	417.60	-8.16157E+05	20.795
2100.0	66.390	43240.	419.20	-8.37077E+05	20.821
2150.0	66.394	46559.	420.76	-8.58076E+05	20.847
2200.0	66.398	49879.	422.29	-8.79152E+05	20.873
2250.0	66.402	53199.	423.78	-9.00304E+05	20.900
2300.0	66.406	56520.	425.24	-9.21530E+05	20.928
2350.0	66.410	59840.	426.67	-9.42828E+05	20.956
2400.0	66.413	63160.	428.07	-9.64196E+05	20.985
2450.0	66.416	66481.	429.43	-9.85634E+05	21.013
2500.0	66.420	69802.	430.78	-1.00714E+06	21.042
2550.0	66.423	73123.	432.09	-1.02871E+06	21.072
2600.0	66.427	76444.	433.38	-1.05035E+06	21.101
2650.0	66.431	79766.	434.65	-1.07205E+06	21.131
2700.0	66.435	83088.	435.89	-1.09381E+06	21.161
2750.0	66.439	86409.	437.11	-1.11564E+06	21.190
2800.0	66.444	89731.	438.30	-1.13752E+06	21.220
2850.0	66.449	93054.	439.48	-1.15947E+06	21.250
2900.0	66.454	96376.	440.64	-1.18147E+06	21.280
2950.0	66.460	99699.	441.77	-1.20353E+06	21.310
3000.0	66.466	1.03022E+05	442.89	-1.22565E+06	21.340

NiBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	41.088	2.03161E+05	256.78	1.26601E+05	-22.179
300.00	41.131	2.03237E+05	257.04	1.26126E+05	-21.960
350.00	42.016	2.05318E+05	263.45	1.13110E+05	-16.880
400.00	42.555	2.07433E+05	269.10	99793.	-13.031
450.00	42.895	2.09570E+05	274.13	86210.	-10.007
500.00	43.114	2.11721E+05	278.66	72388.	-7.5622
550.00	43.257	2.13880E+05	282.78	58351.	-5.5415
600.00	43.349	2.16045E+05	286.55	44116.	-3.8405
650.00	43.408	2.18214E+05	290.02	29701.	-2.3867
700.00	43.446	2.20386E+05	293.24	15118.	-1.1281
750.00	43.468	2.22559E+05	296.24	380.23	-2.6E-02
800.00	43.481	2.24732E+05	299.04	-14503.	0.94690
850.00	43.489	2.26907E+05	301.68	-29521.	1.8141
900.00	43.493	2.29081E+05	304.17	-44668.	2.5924
950.00	43.497	2.31256E+05	306.52	-59936.	3.2954
1000.0	43.501	2.33431E+05	308.75	-75318.	3.9341
1050.0	43.507	2.35606E+05	310.87	-90809.	4.5174
1100.0	43.516	2.37782E+05	312.90	-1.06403E+05	5.0525
1150.0	43.528	2.39958E+05	314.83	-1.22097E+05	5.5457
1200.0	43.544	2.42135E+05	316.68	-1.37885E+05	6.0018
1250.0	43.564	2.44312E+05	318.46	-1.53764E+05	6.4253
1300.0	43.590	2.46491E+05	320.17	-1.69730E+05	6.8197
1350.0	43.620	2.48671E+05	321.82	-1.85780E+05	7.1881
1400.0	43.656	2.50853E+05	323.40	-2.01910E+05	7.5332
1450.0	43.698	2.53037E+05	324.94	-2.18119E+05	7.8573
1500.0	43.745	2.55223E+05	326.42	-2.34403E+05	8.1624
1550.0	43.798	2.57412E+05	327.85	-2.50760E+05	8.4503
1600.0	43.857	2.59603E+05	329.24	-2.67188E+05	8.7226
1650.0	43.922	2.61797E+05	330.59	-2.83684E+05	8.9805
1700.0	43.994	2.63995E+05	331.91	-3.00247E+05	9.2252
1750.0	44.072	2.66197E+05	333.18	-3.16874E+05	9.4579
1800.0	44.156	2.68403E+05	334.43	-3.33564E+05	9.6795
1850.0	44.247	2.70613E+05	335.64	-3.50316E+05	9.8909
1900.0	44.344	2.72827E+05	336.82	-3.67128E+05	10.093
1950.0	44.448	2.75047E+05	337.97	-3.83997E+05	10.286
2000.0	44.558	2.77272E+05	339.10	-4.00924E+05	10.471
2050.0	44.675	2.79503E+05	340.20	-4.17907E+05	10.648
2100.0	44.800	2.81740E+05	341.28	-4.34944E+05	10.818
2150.0	44.874	2.83982E+05	342.33	-4.52034E+05	10.982
2200.0	44.958	2.86227E+05	343.37	-4.69177E+05	11.139
2250.0	45.052	2.88478E+05	344.38	-4.86370E+05	11.291
2300.0	45.153	2.90733E+05	345.37	-5.03614E+05	11.437
2350.0	45.261	2.92993E+05	346.34	-5.20907E+05	11.578
2400.0	45.374	2.95259E+05	347.29	-5.38248E+05	11.714
2450.0	45.493	2.97531E+05	348.23	-5.55636E+05	11.846
2500.0	45.616	2.99808E+05	349.15	-5.73071E+05	11.973
2550.0	45.742	3.02092E+05	350.06	-5.90551E+05	12.097
2600.0	45.872	3.04383E+05	350.95	-6.08076E+05	12.216
2650.0	46.003	3.06679E+05	351.82	-6.25645E+05	12.332
2700.0	46.137	3.08983E+05	352.68	-6.43258E+05	12.444
2750.0	46.272	3.11293E+05	353.53	-6.60913E+05	12.553
2800.0	46.408	3.13610E+05	354.36	-6.78611E+05	12.659
2850.0	46.545	3.15934E+05	355.19	-6.96349E+05	12.762
2900.0	46.682	3.18265E+05	356.00	-7.14129E+05	12.863
2950.0	46.819	3.20602E+05	356.80	-7.31949E+05	12.960
3000.0	46.955	3.22946E+05	357.59	-7.49809E+05	13.055

NiBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.987	9490.0	316.87	-84985.	14.889
300.00	60.037	9601.0	317.24	-85572.	14.899
350.00	61.242	12634.	326.59	-1.01673E+05	15.173
400.00	62.223	15722.	334.84	-1.18213E+05	15.437
450.00	63.047	18854.	342.21	-1.35142E+05	15.687
500.00	63.751	22024.	348.89	-1.52423E+05	15.923
550.00	64.354	25227.	355.00	-1.70022E+05	16.147
600.00	64.869	28458.	360.62	-1.87914E+05	16.359
650.00	65.303	31713.	365.83	-2.06077E+05	16.560
700.00	65.662	34987.	370.68	-2.24492E+05	16.751
750.00	65.953	38278.	375.22	-2.43140E+05	16.933
800.00	66.174	41581.	379.49	-2.62009E+05	17.107
850.00	66.343	44894.	383.51	-2.81085E+05	17.273
900.00	66.470	48215.	387.30	-3.00356E+05	17.432
950.00	66.566	51541.	390.90	-3.19812E+05	17.584
1000.0	66.636	54871.	394.31	-3.39443E+05	17.730
1050.0	66.686	58204.	397.57	-3.59241E+05	17.871
1100.0	66.719	61539.	400.67	-3.79197E+05	18.006
1150.0	66.740	64876.	403.64	-3.99305E+05	18.137
1200.0	66.751	68213.	406.48	-4.19559E+05	18.262
1250.0	66.753	71551.	409.20	-4.39951E+05	18.384
1300.0	66.748	74888.	411.82	-4.60477E+05	18.502
1350.0	66.738	78226.	414.34	-4.81131E+05	18.616
1400.0	66.724	81562.	416.77	-5.01909E+05	18.726
1450.0	66.706	84898.	419.11	-5.22806E+05	18.833
1500.0	66.686	88233.	421.37	-5.43819E+05	18.937
1550.0	66.663	91566.	423.55	-5.64942E+05	19.038
1600.0	66.640	94899.	425.67	-5.86173E+05	19.136
1650.0	66.615	98230.	427.72	-6.07508E+05	19.232
1700.0	66.590	1.01561E+05	429.71	-6.28944E+05	19.325
1750.0	66.565	1.04889E+05	431.64	-6.50478E+05	19.415
1800.0	66.540	1.08217E+05	433.51	-6.72107E+05	19.504
1850.0	66.515	1.11543E+05	435.34	-6.93828E+05	19.590
1900.0	66.491	1.14869E+05	437.11	-7.15640E+05	19.674
1950.0	66.468	1.18193E+05	438.84	-7.37538E+05	19.756
2000.0	66.445	1.21515E+05	440.52	-7.59522E+05	19.836
2050.0	66.424	1.24837E+05	442.16	-7.81590E+05	19.915
2100.0	66.404	1.28158E+05	443.76	-8.03738E+05	19.991
2150.0	66.386	1.31478E+05	445.32	-8.25965E+05	20.066
2200.0	66.369	1.34796E+05	446.85	-8.48269E+05	20.140
2250.0	66.353	1.38114E+05	448.34	-8.70649E+05	20.212
2300.0	66.339	1.41432E+05	449.80	-8.93103E+05	20.282
2350.0	66.327	1.44748E+05	451.22	-9.15628E+05	20.352
2400.0	66.317	1.48064E+05	452.62	-9.38225E+05	20.419
2450.0	66.308	1.51380E+05	453.99	-9.60890E+05	20.486
2500.0	66.302	1.54695E+05	455.33	-9.83623E+05	20.551
2550.0	66.297	1.58010E+05	456.64	-1.00642E+06	20.615
2600.0	66.295	1.61325E+05	457.93	-1.02929E+06	20.678
2650.0	66.294	1.64640E+05	459.19	-1.05221E+06	20.740
2700.0	66.296	1.67955E+05	460.43	-1.07521E+06	20.801
2750.0	66.299	1.71269E+05	461.65	-1.09826E+06	20.860
2800.0	66.305	1.74584E+05	462.84	-1.12137E+06	20.919
2850.0	66.306	1.77900E+05	464.01	-1.14454E+06	20.977
2900.0	66.309	1.81215E+05	465.17	-1.16777E+06	21.033
2950.0	66.312	1.84531E+05	466.30	-1.19106E+06	21.089
3000.0	66.316	1.87846E+05	467.42	-1.21440E+06	21.144

NiCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	89.764	-6.79900E+05	85.354	-7.05348E+05	123.57
300.00	90.007	-6.79734E+05	85.910	-7.05507E+05	122.84
350.00	95.591	-6.75087E+05	100.23	-7.10166E+05	105.98
400.00	99.898	-6.70196E+05	113.28	-7.15508E+05	93.433
450.00	103.46	-6.65109E+05	125.26	-7.21476E+05	83.745
500.00	106.57	-6.59857E+05	136.32	-7.28019E+05	76.054
550.00	109.37	-6.54458E+05	146.61	-7.35095E+05	69.812
600.00	111.97	-6.48923E+05	156.24	-7.42669E+05	64.653
650.00	114.42	-6.43263E+05	165.30	-7.50710E+05	60.326
700.00	116.77	-6.37483E+05	173.87	-7.59192E+05	56.650

Ni(CO)₄

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	203.34	-6.31784E+05	319.56	-7.27061E+05	127.37
300.00	203.44	-6.31408E+05	320.82	-7.27653E+05	126.69
350.00	206.20	-6.21167E+05	352.39	-7.44502E+05	111.11
400.00	208.96	-6.10787E+05	380.10	-7.62828E+05	99.613
450.00	211.72	-6.00270E+05	404.87	-7.82463E+05	90.824
500.00	214.48	-5.89616E+05	427.32	-8.03277E+05	83.916
550.00	217.24	-5.78823E+05	447.89	-8.25164E+05	78.366
600.00	219.99	-5.67892E+05	466.91	-8.48041E+05	73.827
650.00	222.75	-5.56823E+05	484.63	-8.71834E+05	70.060
700.00	225.51	-5.45617E+05	501.24	-8.96485E+05	66.895

Ni(CO)₄<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	149.29	-6.01576E+05	415.51	-7.25458E+05	127.09
300.00	149.55	-6.01299E+05	416.43	-7.26228E+05	126.44
350.00	155.67	-5.93661E+05	439.97	-7.47649E+05	111.58
400.00	160.41	-5.85755E+05	461.07	-7.70184E+05	100.57
450.00	164.30	-5.77634E+05	480.20	-7.93723E+05	92.131
500.00	167.65	-5.69334E+05	497.69	-8.18177E+05	85.472
550.00	170.61	-5.60876E+05	513.81	-8.43469E+05	80.104
600.00	173.27	-5.52278E+05	528.77	-8.69538E+05	75.698
650.00	175.70	-5.43553E+05	542.73	-8.96329E+05	72.028
700.00	177.95	-5.34711E+05	555.84	-9.23797E+05	68.933
750.00	180.03	-5.25761E+05	568.19	-9.51900E+05	66.295
800.00	181.96	-5.16710E+05	579.87	-9.80604E+05	64.025
850.00	183.77	-5.07567E+05	590.95	-1.00988E+06	62.058
900.00	185.46	-4.98335E+05	601.51	-1.03969E+06	60.341
950.00	187.03	-4.89023E+05	611.58	-1.07002E+06	58.832
1000.0	188.50	-4.79634E+05	621.21	-1.10084E+06	57.501
1050.0	189.86	-4.70175E+05	630.44	-1.13213E+06	56.319
1100.0	191.12	-4.60650E+05	639.30	-1.16388E+06	55.267
1150.0	192.29	-4.51064E+05	647.82	-1.19606E+06	54.325
1200.0	193.36	-4.41422E+05	656.03	-1.22866E+06	53.481
1250.0	194.34	-4.31729E+05	663.94	-1.26166E+06	52.720
1300.0	195.23	-4.21990E+05	671.58	-1.29504E+06	52.034
1350.0	196.03	-4.12208E+05	678.96	-1.32881E+06	51.413
1400.0	196.74	-4.02388E+05	686.11	-1.36294E+06	50.851
1450.0	197.36	-3.92536E+05	693.02	-1.39742E+06	50.339
1500.0	197.89	-3.82654E+05	699.72	-1.43224E+06	49.874
1550.0	198.33	-3.72748E+05	706.22	-1.46739E+06	49.449
1600.0	198.90	-3.62817E+05	712.52	-1.50285E+06	49.062
1650.0	199.43	-3.52859E+05	718.65	-1.53863E+06	48.708
1700.0	199.92	-3.42875E+05	724.61	-1.57472E+06	48.384
1750.0	200.36	-3.32868E+05	730.41	-1.61109E+06	48.087
1800.0	200.78	-3.22839E+05	736.06	-1.64776E+06	47.815
1850.0	201.16	-3.12791E+05	741.57	-1.68470E+06	47.566
1900.0	201.52	-3.02724E+05	746.94	-1.72191E+06	47.337
1950.0	201.85	-2.92639E+05	752.18	-1.75939E+06	47.128
2000.0	202.16	-2.82539E+05	757.29	-1.79713E+06	46.935
2050.0	202.45	-2.72424E+05	762.29	-1.83512E+06	46.758
2100.0	202.72	-2.62295E+05	767.17	-1.87335E+06	46.596
2150.0	202.97	-2.52152E+05	771.94	-1.91183E+06	46.447
2200.0	203.21	-2.41998E+05	776.61	-1.95055E+06	46.311
2250.0	203.44	-2.31831E+05	781.18	-1.98949E+06	46.186
2300.0	203.66	-2.21654E+05	785.66	-2.02866E+06	46.071
2350.0	203.86	-2.11466E+05	790.04	-2.06806E+06	45.967
2400.0	204.05	-2.01268E+05	794.33	-2.10767E+06	45.871
2450.0	204.23	-1.91061E+05	798.54	-2.14749E+06	45.784
2500.0	204.41	-1.80845E+05	802.67	-2.18752E+06	45.705
2550.0	204.57	-1.70620E+05	806.72	-2.22775E+06	45.633
2600.0	204.73	-1.60387E+05	810.69	-2.26819E+06	45.567
2650.0	204.88	-1.50147E+05	814.59	-2.30882E+06	45.508
2700.0	205.03	-1.39899E+05	818.43	-2.34965E+06	45.456
2750.0	205.17	-1.29644E+05	822.19	-2.39066E+06	45.408
2800.0	205.30	-1.19383E+05	825.89	-2.43186E+06	45.366
2850.0	205.42	-1.09115E+05	829.52	-2.47325E+06	45.328
2900.0	205.55	-98840.	833.09	-2.51482E+06	45.296
2950.0	205.66	-88560.	836.61	-2.55656E+06	45.267
3000.0	205.78	-78274.	840.07	-2.59848E+06	45.242

Ni3B

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	85.666	-88960.	87.655	-1.15095E+05	20.164
300.00	85.930	-88801.	88.186	-1.15257E+05	20.068
350.00	91.840	-84348.	101.90	-1.20014E+05	17.911
400.00	96.138	-79644.	114.46	-1.25428E+05	16.379
450.00	99.499	-74750.	125.98	-1.31443E+05	15.257
500.00	102.28	-69704.	136.62	-1.38012E+05	14.418
550.00	104.68	-64528.	146.48	-1.45092E+05	13.779
600.00	106.82	-59240.	155.68	-1.52649E+05	13.289
650.00	108.78	-53849.	164.31	-1.60651E+05	12.910
700.00	110.61	-48364.	172.44	-1.69071E+05	12.616
750.00	112.33	-42791.	180.13	-1.77887E+05	12.389
800.00	113.99	-37132.	187.43	-1.87078E+05	12.215
850.00	115.58	-31393.	194.39	-1.96625E+05	12.083
900.00	117.14	-25575.	201.04	-2.06512E+05	11.985
950.00	118.65	-19680.	207.42	-2.16724E+05	11.916
1000.0	120.14	-13710.	213.54	-2.27249E+05	11.870
1050.0	121.60	-7666.3	219.44	-2.38074E+05	11.843
1100.0	123.05	-1550.0	225.13	-2.49189E+05	11.833
1150.0	124.47	4638.1	230.63	-2.60584E+05	11.836
1200.0	125.89	10897.	235.96	-2.72249E+05	11.850
1250.0	127.29	17227.	241.12	-2.84177E+05	11.875
1300.0	128.69	23626.	246.14	-2.96359E+05	11.908
1350.0	130.07	30095.	251.03	-3.08789E+05	11.947
1400.0	131.45	36634.	255.78	-3.21459E+05	11.993
1439.0	132.52	41781.	259.41	-3.31505E+05	12.033
1439.0	125.52	1.14060E+05	309.64	-3.31506E+05	12.033
1450.0	125.52	1.15440E+05	310.59	-3.34917E+05	12.065
1500.0	125.52	1.21716E+05	314.85	-3.50553E+05	12.207
1550.0	125.52	1.27992E+05	318.96	-3.66399E+05	12.347
1600.0	125.52	1.34268E+05	322.95	-3.82447E+05	12.485
1650.0	125.52	1.40544E+05	326.81	-3.98692E+05	12.621
1700.0	125.52	1.46820E+05	330.56	-4.15126E+05	12.755
1750.0	125.52	1.53096E+05	334.20	-4.31746E+05	12.887
1800.0	125.52	1.59372E+05	337.73	-4.48544E+05	13.016
1850.0	125.52	1.65648E+05	341.17	-4.65517E+05	13.144
1900.0	125.52	1.71924E+05	344.52	-4.82660E+05	13.269
1950.0	125.52	1.78200E+05	347.78	-4.99968E+05	13.392
2000.0	125.52	1.84476E+05	350.96	-5.17436E+05	13.514

Ni2B

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.919	-63720.	66.191	-83455.	14.621
300.00	60.127	-63609.	66.562	-83578.	14.552
350.00	64.792	-60479.	76.202	-87150.	13.006
400.00	68.209	-57150.	85.087	-91185.	11.907
450.00	70.900	-53670.	93.282	-95647.	11.102
500.00	73.142	-50068.	100.87	-1.00503E+05	10.499
550.00	75.089	-46361.	107.94	-1.05726E+05	10.041
600.00	76.835	-42562.	114.55	-1.11289E+05	9.6884
650.00	78.440	-38680.	120.76	-1.17174E+05	9.4159
700.00	79.943	-34720.	126.63	-1.23360E+05	9.2050
750.00	81.370	-30687.	132.19	-1.29831E+05	9.0420
800.00	82.740	-26584.	137.49	-1.36574E+05	8.9172
850.00	84.064	-22413.	142.54	-1.43576E+05	8.8229
900.00	85.354	-18178.	147.39	-1.50825E+05	8.7534
950.00	86.617	-13879.	152.03	-1.58312E+05	8.7044
1000.0	87.857	-9516.6	156.51	-1.66026E+05	8.6721
1050.0	89.079	-5093.1	160.83	-1.73960E+05	8.6538
1100.0	90.285	-608.97	165.00	-1.82106E+05	8.6473
1150.0	91.480	3935.2	169.04	-1.90457E+05	8.6506
1200.0	92.664	8538.8	172.96	-1.99008E+05	8.6624
1250.0	93.839	13201.	176.76	-2.07751E+05	8.6812
1300.0	95.007	17923.	180.47	-2.16682E+05	8.7062
1350.0	96.169	22702.	184.07	-2.25796E+05	8.7363
1398.0	97.279	27345.	187.45	-2.34713E+05	8.7695
1398.0	94.140	69495.	217.60	-2.34713E+05	8.7695
1400.0	94.140	69683.	217.74	-2.35148E+05	8.7733
1450.0	94.140	74390.	221.04	-2.46118E+05	8.8659
1500.0	94.140	79097.	224.23	-2.57250E+05	8.9580
1550.0	94.140	83804.	227.32	-2.68539E+05	9.0495
1600.0	94.140	88511.	230.31	-2.79981E+05	9.1402
1650.0	94.140	93218.	233.20	-2.91569E+05	9.2301
1700.0	94.140	97925.	236.01	-3.03299E+05	9.3190
1750.0	94.140	1.02632E+05	238.74	-3.15169E+05	9.4070
1800.0	94.140	1.07339E+05	241.40	-3.27173E+05	9.4941
1850.0	94.140	1.12046E+05	243.97	-3.39307E+05	9.5801
1900.0	94.140	1.16753E+05	246.49	-3.51569E+05	9.6651
1950.0	94.140	1.21460E+05	248.93	-3.63955E+05	9.7490
2000.0	94.140	1.26167E+05	251.31	-3.76461E+05	9.8319

Ni4B3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	128.12	-3.11708E+05	114.64	-3.45889E+05	60.597
300.00	128.74	-3.11470E+05	115.44	-3.46101E+05	60.260
350.00	142.33	-3.04672E+05	136.37	-3.52401E+05	52.592
400.00	152.01	-2.97302E+05	156.04	-3.59717E+05	46.973
450.00	159.43	-2.89508E+05	174.39	-3.67983E+05	42.713
500.00	165.43	-2.81382E+05	191.51	-3.77135E+05	39.398
550.00	170.51	-2.72981E+05	207.52	-3.87115E+05	36.764
600.00	174.96	-2.64342E+05	222.55	-3.97870E+05	34.637
650.00	178.97	-2.55493E+05	236.71	-4.09355E+05	32.895
700.00	182.65	-2.46451E+05	250.11	-4.21529E+05	31.454
750.00	186.10	-2.37231E+05	262.83	-4.34355E+05	30.250
800.00	189.37	-2.27844E+05	274.95	-4.47802E+05	29.238
850.00	192.50	-2.18296E+05	286.52	-4.61841E+05	28.381
900.00	195.52	-2.08595E+05	297.61	-4.76446E+05	27.652
950.00	198.46	-1.98746E+05	308.26	-4.91595E+05	27.029
1000.0	201.32	-1.88751E+05	318.51	-5.07266E+05	26.496
1050.0	204.13	-1.78614E+05	328.41	-5.23440E+05	26.039
1100.0	206.89	-1.68339E+05	337.97	-5.40101E+05	25.647
1150.0	209.61	-1.57926E+05	347.22	-5.57232E+05	25.310
1200.0	212.30	-1.47378E+05	356.20	-5.74818E+05	25.021
1250.0	214.96	-1.36696E+05	364.92	-5.92847E+05	24.773
1300.0	217.60	-1.25882E+05	373.40	-6.11307E+05	24.562
1350.0	220.22	-1.14937E+05	381.66	-6.30184E+05	24.383
1400.0	222.82	-1.03861E+05	389.72	-6.49470E+05	24.231

O<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	21.912	2.49174E+05	161.06	2.01154E+05	-35.240
300.00	21.899	2.49214E+05	161.20	2.00856E+05	-34.971
350.00	21.636	2.50302E+05	164.55	1.92710E+05	-28.760
400.00	21.462	2.51380E+05	167.43	1.84409E+05	-24.081
450.00	21.340	2.52449E+05	169.95	1.75973E+05	-20.426
500.00	21.250	2.53514E+05	172.19	1.67419E+05	-17.490
550.00	21.182	2.54575E+05	174.21	1.58758E+05	-15.077
600.00	21.128	2.55632E+05	176.05	1.50000E+05	-13.058
650.00	21.085	2.56688E+05	177.74	1.41155E+05	-11.343
700.00	21.049	2.57741E+05	179.30	1.32228E+05	-9.8667
750.00	21.019	2.58793E+05	180.76	1.23226E+05	-8.5820
800.00	20.994	2.59843E+05	182.11	1.14154E+05	-7.4533
850.00	20.972	2.60892E+05	183.38	1.05016E+05	-6.4534
900.00	20.953	2.61940E+05	184.58	95817.	-5.5609
950.00	20.936	2.62988E+05	185.71	86559.	-4.7592
1000.0	20.921	2.64034E+05	186.79	77247.	-4.0348
1050.0	20.908	2.65080E+05	187.81	67882.	-3.3768
1100.0	20.897	2.66125E+05	188.78	58467.	-2.7763
1150.0	20.886	2.67169E+05	189.71	49004.	-2.2258
1200.0	20.877	2.68214E+05	190.60	39496.	-1.7192
1250.0	20.869	2.69257E+05	191.45	29945.	-1.2513
1300.0	20.861	2.70300E+05	192.27	20352.	-0.81773
1350.0	20.855	2.71343E+05	193.06	10719.	-0.41472
1400.0	20.849	2.72386E+05	193.81	1047.0	-3.9E-02
1450.0	20.844	2.73428E+05	194.55	-8662.1	0.31203
1500.0	20.839	2.74470E+05	195.25	-18407.	0.64098
1550.0	20.835	2.75512E+05	195.93	-28187.	0.94987
1600.0	20.832	2.76554E+05	196.60	-38000.	1.2405
1650.0	20.830	2.77595E+05	197.24	-47846.	1.5146
1700.0	20.827	2.78637E+05	197.86	-57724.	1.7736
1750.0	20.826	2.79678E+05	198.46	-67632.	2.0186
1800.0	20.825	2.80719E+05	199.05	-77570.	2.2510
1850.0	20.824	2.81761E+05	199.62	-87536.	2.4715
1900.0	20.824	2.82802E+05	200.18	-97531.	2.6813
1950.0	20.824	2.83843E+05	200.72	-1.07554E+05	2.8810
2000.0	20.825	2.84884E+05	201.24	-1.17603E+05	3.0714
2050.0	20.826	2.85926E+05	201.76	-1.27678E+05	3.2532
2100.0	20.828	2.86967E+05	202.26	-1.37778E+05	3.4270
2150.0	20.830	2.88008E+05	202.75	-1.47904E+05	3.5933
2200.0	20.833	2.89050E+05	203.23	-1.58053E+05	3.7526
2250.0	20.836	2.90092E+05	203.70	-1.68226E+05	3.9053
2300.0	20.839	2.91133E+05	204.15	-1.78423E+05	4.0520
2350.0	20.843	2.92176E+05	204.60	-1.88642E+05	4.1929
2400.0	20.847	2.93218E+05	205.04	-1.98883E+05	4.3285
2450.0	20.852	2.94260E+05	205.47	-2.09146E+05	4.4589
2500.0	20.857	2.95303E+05	205.89	-2.19430E+05	4.5846
2550.0	20.862	2.96346E+05	206.31	-2.29735E+05	4.7058
2600.0	20.868	2.97389E+05	206.71	-2.40060E+05	4.8227
2650.0	20.874	2.98433E+05	207.11	-2.50406E+05	4.9357
2700.0	20.881	2.99477E+05	207.50	-2.60771E+05	5.0448
2750.0	20.888	3.00521E+05	207.88	-2.71156E+05	5.1503
2800.0	20.895	3.01565E+05	208.26	-2.81559E+05	5.2524
2850.0	20.903	3.02610E+05	208.63	-2.91981E+05	5.3513
2900.0	20.911	3.03656E+05	208.99	-3.02422E+05	5.4471
2950.0	20.920	3.04701E+05	209.35	-3.12881E+05	5.5399
3000.0	20.930	3.05748E+05	209.70	-3.23357E+05	5.6300

O2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.376	0.00000E+00	205.15	-61165.	10.716
300.00	29.384	54.353	205.33	-61544.	10.716
350.00	29.694	1530.6	209.88	-71927.	10.734
400.00	30.123	3025.7	213.87	-82523.	10.776
450.00	30.603	4543.7	217.45	-93307.	10.831
500.00	31.101	6086.3	220.70	-1.04262E+05	10.892
550.00	31.597	7653.8	223.68	-1.15373E+05	10.957
600.00	32.077	9245.7	226.45	-1.26627E+05	11.024
650.00	32.535	10861.	229.04	-1.38015E+05	11.091
700.00	32.967	12499.	231.47	-1.49528E+05	11.158
750.00	33.367	14157.	233.76	-1.61160E+05	11.224
800.00	33.735	15835.	235.92	-1.72902E+05	11.289
850.00	34.068	17530.	237.98	-1.84750E+05	11.353
900.00	34.366	19241.	239.93	-1.96698E+05	11.416
950.00	34.617	20966.	241.80	-2.08742E+05	11.477
1000.0	34.847	22703.	243.58	-2.20876E+05	11.537
1050.0	35.061	24450.	245.28	-2.33098E+05	11.596
1100.0	35.260	26208.	246.92	-2.45404E+05	11.653
1150.0	35.449	27976.	248.49	-2.57789E+05	11.709
1200.0	35.627	29753.	250.00	-2.70252E+05	11.763
1250.0	35.797	31539.	251.46	-2.82789E+05	11.817
1300.0	35.960	33333.	252.87	-2.95397E+05	11.869
1350.0	36.116	35135.	254.23	-3.08075E+05	11.920
1400.0	36.268	36944.	255.55	-3.20819E+05	11.970
1450.0	36.414	38761.	256.82	-3.33629E+05	12.018
1500.0	36.557	40586.	258.06	-3.46501E+05	12.066
1550.0	36.695	42417.	259.26	-3.59434E+05	12.113
1600.0	36.831	44255.	260.43	-3.72426E+05	12.158
1650.0	36.963	46100.	261.56	-3.85476E+05	12.203
1700.0	37.093	47951.	262.67	-3.98582E+05	12.247
1750.0	37.220	49809.	263.74	-4.11742E+05	12.290
1800.0	37.345	51673.	264.79	-4.24956E+05	12.332
1850.0	37.468	53544.	265.82	-4.38221E+05	12.373
1900.0	37.589	55420.	266.82	-4.51537E+05	12.413
1950.0	37.709	57302.	267.80	-4.64903E+05	12.453
2000.0	37.826	59191.	268.75	-4.78316E+05	12.492
2050.0	37.942	61085.	269.69	-4.91778E+05	12.530
2100.0	38.057	62985.	270.60	-5.05285E+05	12.568
2150.0	38.171	64891.	271.50	-5.18838E+05	12.605
2200.0	38.283	66802.	272.38	-5.32435E+05	12.641
2250.0	38.394	68719.	273.24	-5.46076E+05	12.677
2300.0	38.504	70642.	274.09	-5.59759E+05	12.712
2350.0	38.613	72569.	274.92	-5.73484E+05	12.747
2400.0	38.720	74503.	275.73	-5.87250E+05	12.781
2450.0	38.827	76441.	276.53	-6.01057E+05	12.814
2500.0	38.933	78385.	277.32	-6.14903E+05	12.847
2550.0	39.038	80335.	278.09	-6.28788E+05	12.880
2600.0	39.142	82289.	278.85	-6.42712E+05	12.912
2650.0	39.245	84249.	279.59	-6.56673E+05	12.943
2700.0	39.347	86214.	280.33	-6.70671E+05	12.975
2750.0	39.449	88184.	281.05	-6.84705E+05	13.005
2800.0	39.550	90159.	281.76	-6.98775E+05	13.035
2850.0	39.650	92139.	282.46	-7.12881E+05	13.065
2900.0	39.749	94124.	283.15	-7.27022E+05	13.095
2950.0	39.847	96113.	283.83	-7.41196E+05	13.124
3000.0	39.945	98108.	284.50	-7.55405E+05	13.152

O3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	39.362	1.41800E+05	239.01	70541.	-12.358
300.00	39.461	1.41873E+05	239.25	70098.	-12.205
350.00	41.913	1.43909E+05	245.52	57977.	-8.6523
400.00	44.020	1.46059E+05	251.26	45555.	-5.9487
450.00	45.870	1.48307E+05	256.55	32858.	-3.8140
500.00	47.508	1.50642E+05	261.47	19906.	-2.0795
550.00	48.958	1.53054E+05	266.07	6716.3	-0.63784
600.00	50.237	1.55535E+05	270.39	-6696.2	0.58294
650.00	51.355	1.58075E+05	274.45	-20318.	1.6327
700.00	52.317	1.60668E+05	278.29	-34138.	2.5473
750.00	53.163	1.63306E+05	281.93	-48144.	3.3530
800.00	53.874	1.65982E+05	285.39	-62328.	4.0695
850.00	54.484	1.68691E+05	288.67	-76680.	4.7121
900.00	55.020	1.71429E+05	291.80	-91192.	5.2925
950.00	55.498	1.74192E+05	294.79	-1.05858E+05	5.8203
1000.0	55.934	1.76978E+05	297.65	-1.20669E+05	6.3030
1050.0	56.338	1.79785E+05	300.39	-1.35621E+05	6.7466
1100.0	56.719	1.82612E+05	303.02	-1.50706E+05	7.1563
1150.0	57.083	1.85457E+05	305.55	-1.65921E+05	7.5362
1200.0	57.435	1.88320E+05	307.98	-1.81259E+05	7.8898
1250.0	57.781	1.91200E+05	310.33	-1.96717E+05	8.2202
1300.0	58.121	1.94098E+05	312.61	-2.12291E+05	8.5297
1350.0	58.477	1.97013E+05	314.81	-2.27977E+05	8.8207
1400.0	58.844	1.99946E+05	316.94	-2.43771E+05	9.0950
1450.0	59.238	2.02898E+05	319.01	-2.59670E+05	9.3541
1500.0	59.671	2.05870E+05	321.03	-2.75671E+05	9.5995
1550.0	60.153	2.08866E+05	322.99	-2.91772E+05	9.8324
1600.0	60.694	2.11886E+05	324.91	-3.07969E+05	10.054
1650.0	61.302	2.14936E+05	326.79	-3.24262E+05	10.265
1700.0	61.983	2.18018E+05	328.63	-3.40648E+05	10.467
1750.0	62.742	2.21136E+05	330.43	-3.57124E+05	10.659
1800.0	63.585	2.24293E+05	332.21	-3.73690E+05	10.844
1850.0	64.516	2.27496E+05	333.97	-3.90345E+05	11.021
1900.0	65.538	2.30747E+05	335.70	-4.07087E+05	11.191
1950.0	66.655	2.34051E+05	337.42	-4.23915E+05	11.355
2000.0	67.869	2.37414E+05	339.12	-4.40829E+05	11.513
2050.0	69.183	2.40840E+05	340.81	-4.57827E+05	11.665
2100.0	70.600	2.44334E+05	342.50	-4.74910E+05	11.812
2150.0	72.054	2.47899E+05	344.17	-4.92076E+05	11.955
2200.0	73.644	2.51541E+05	345.85	-5.09327E+05	12.093
2250.0	75.343	2.55266E+05	347.52	-5.26661E+05	12.226
2300.0	77.128	2.59077E+05	349.20	-5.44079E+05	12.356
2350.0	78.978	2.62979E+05	350.88	-5.61581E+05	12.482
2400.0	80.875	2.66976E+05	352.56	-5.79167E+05	12.605
2450.0	82.801	2.71067E+05	354.25	-5.96837E+05	12.724
2500.0	84.742	2.75256E+05	355.94	-6.14592E+05	12.841
2550.0	86.682	2.79542E+05	357.64	-6.32431E+05	12.955
2600.0	88.610	2.83924E+05	359.34	-6.50356E+05	13.065
2650.0	90.515	2.88402E+05	361.04	-6.68365E+05	13.174
2700.0	92.386	2.92975E+05	362.75	-6.86460E+05	13.280
2750.0	94.214	2.97640E+05	364.47	-7.04641E+05	13.384
2800.0	95.992	3.02396E+05	366.18	-7.22907E+05	13.486
2850.0	97.724	3.07239E+05	367.89	-7.41259E+05	13.585
2900.0	99.336	3.12166E+05	369.61	-7.59696E+05	13.683
2950.0	100.83	3.17171E+05	371.32	-7.78219E+05	13.779
3000.0	102.20	3.22247E+05	373.02	-7.96828E+05	13.874

Os

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.707	0.00000E+00	32.635	-9730.1	1.7046
300.00	24.714	45.714	32.788	-9790.6	1.7047
350.00	24.904	1286.2	36.612	-11528.	1.7204
400.00	25.094	2536.1	39.950	-13444.	1.7555
450.00	25.285	3795.6	42.916	-15517.	1.8011
500.00	25.475	5064.6	45.590	-17731.	1.8522
550.00	25.666	6343.1	48.027	-20072.	1.9062
600.00	25.856	7631.2	50.269	-22530.	1.9614
650.00	26.047	8928.7	52.346	-25096.	2.0167
700.00	26.237	10236.	54.283	-27762.	2.0716
750.00	26.427	11552.	56.100	-30522.	2.1257
800.00	26.618	12879.	57.811	-33370.	2.1788
850.00	26.808	14214.	59.431	-36302.	2.2308
900.00	26.999	15559.	60.968	-39312.	2.2816
950.00	27.189	16914.	62.433	-42397.	2.3311
1000.0	27.380	18278.	63.833	-45554.	2.3795
1050.0	27.570	19652.	65.173	-48780.	2.4266
1100.0	27.760	21035.	66.460	-52071.	2.4726
1150.0	27.951	22428.	67.698	-55425.	2.5174
1200.0	28.141	23830.	68.892	-58840.	2.5612
1250.0	28.332	25242.	70.045	-62313.	2.6039
1300.0	28.522	26664.	71.159	-65844.	2.6456
1350.0	28.713	28094.	72.239	-69429.	2.6863
1400.0	28.903	29535.	73.287	-73067.	2.7261
1450.0	29.093	30985.	74.305	-76757.	2.7650
1500.0	29.284	32444.	75.294	-80497.	2.8031
1550.0	29.474	33913.	76.258	-84286.	2.8403
1600.0	29.665	35392.	77.196	-88122.	2.8768
1650.0	29.855	36880.	78.112	-92005.	2.9126
1700.0	30.046	38377.	79.006	-95933.	2.9476
1750.0	30.236	39884.	79.880	-99906.	2.9819
1800.0	30.426	41401.	80.734	-1.03921E+05	3.0156
1850.0	30.617	42927.	81.571	-1.07979E+05	3.0487
1900.0	30.807	44462.	82.390	-1.12078E+05	3.0812
1950.0	30.998	46008.	83.192	-1.16217E+05	3.1130
2000.0	31.188	47562.	83.979	-1.20397E+05	3.1444
2050.0	31.379	49126.	84.752	-1.24615E+05	3.1751
2100.0	31.569	50700.	85.510	-1.28872E+05	3.2054
2150.0	31.759	52283.	86.255	-1.33166E+05	3.2352
2200.0	31.950	53876.	86.988	-1.37497E+05	3.2645
2250.0	32.140	55478.	87.708	-1.41864E+05	3.2934
2300.0	32.331	57090.	88.416	-1.46268E+05	3.3218
2350.0	32.521	58711.	89.114	-1.50706E+05	3.3497
2400.0	32.712	60342.	89.800	-1.55179E+05	3.3773
2450.0	32.902	61982.	90.477	-1.59686E+05	3.4045
2500.0	33.092	63632.	91.143	-1.64226E+05	3.4312
2550.0	33.283	65292.	91.801	-1.68800E+05	3.4576
2600.0	33.473	66961.	92.449	-1.73406E+05	3.4837
2650.0	33.664	68639.	93.088	-1.78045E+05	3.5094
2700.0	33.854	70327.	93.719	-1.82715E+05	3.5347
2750.0	34.045	72024.	94.342	-1.87416E+05	3.5598
2800.0	34.235	73731.	94.957	-1.92149E+05	3.5845
2850.0	34.425	75448.	95.565	-1.96912E+05	3.6089
2900.0	34.616	77174.	96.165	-2.01705E+05	3.6330
2950.0	34.806	78909.	96.759	-2.06528E+05	3.6568
3000.0	34.997	80655.	97.345	-2.11381E+05	3.6804

P

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	23.825	0.00000E+00	41.090	-12251.	2.1463
300.00	23.891	44.138	41.238	-12327.	2.1463
317.30	24.347	461.78	42.591	-13052.	2.1486
317.30	26.326	1120.8	44.668	-13052.	2.1486
350.00	26.326	1981.7	47.250	-14556.	2.1723
400.00	26.326	3298.0	50.765	-17008.	2.2210
450.00	26.326	4614.3	53.866	-19626.	2.2780
500.00	26.326	5930.6	56.640	-22389.	2.3389
550.00	26.326	7246.9	59.149	-25285.	2.4013
600.00	26.326	8563.2	61.440	-28301.	2.4637
650.00	26.326	9879.5	63.547	-31426.	2.5254
700.00	26.326	11196.	65.498	-34653.	2.5858
750.00	26.326	12512.	67.314	-37974.	2.6446
800.00	26.326	13828.	69.013	-41382.	2.7019
850.00	26.326	15145.	70.609	-44873.	2.7575
900.00	26.326	16461.	72.114	-48442.	2.8114
950.00	26.326	17777.	73.537	-52083.	2.8637
1000.0	26.326	19094.	74.888	-55794.	2.9143
1050.0	26.326	20410.	76.172	-59571.	2.9634
1100.0	26.326	21726.	77.397	-63410.	3.0110
1150.0	26.326	23042.	78.567	-67310.	3.0572
1200.0	26.326	24359.	79.687	-71266.	3.1021
1250.0	26.326	25675.	80.762	-75278.	3.1456
1300.0	26.326	26991.	81.795	-79342.	3.1879
1350.0	26.326	28308.	82.788	-83456.	3.2290
1400.0	26.326	29624.	83.746	-87620.	3.2691
1450.0	26.326	30940.	84.669	-91830.	3.3080
1500.0	26.326	32257.	85.562	-96086.	3.3459
1550.0	26.326	33573.	86.425	-1.00386E+05	3.3829
1600.0	26.326	34889.	87.261	-1.04728E+05	3.4189
1650.0	26.326	36205.	88.071	-1.09112E+05	3.4541
1700.0	26.326	37522.	88.857	-1.13535E+05	3.4884
1750.0	26.326	38838.	89.620	-1.17997E+05	3.5219
1800.0	26.326	40154.	90.362	-1.22497E+05	3.5547
1850.0	26.326	41471.	91.083	-1.27033E+05	3.5867
1900.0	26.326	42787.	91.785	-1.31605E+05	3.6180
1950.0	26.326	44103.	92.469	-1.36211E+05	3.6486
2000.0	26.326	45420.	93.135	-1.40851E+05	3.6786
2050.0	26.326	46736.	93.786	-1.45525E+05	3.7079
2100.0	26.326	48052.	94.420	-1.50230E+05	3.7367
2150.0	26.326	49368.	95.039	-1.54966E+05	3.7648
2200.0	26.326	50685.	95.645	-1.59733E+05	3.7925
2250.0	26.326	52001.	96.236	-1.64531E+05	3.8195
2300.0	26.326	53317.	96.815	-1.69357E+05	3.8461
2350.0	26.326	54634.	97.381	-1.74212E+05	3.8722
2400.0	26.326	55950.	97.935	-1.79095E+05	3.8978
2450.0	26.326	57266.	98.478	-1.84005E+05	3.9229
2500.0	26.326	58583.	99.010	-1.88942E+05	3.9476
2550.0	26.326	59899.	99.531	-1.93906E+05	3.9719
2600.0	26.326	61215.	100.04	-1.98895E+05	3.9958
2650.0	26.326	62531.	100.54	-2.03910E+05	4.0192
2700.0	26.326	63848.	101.04	-2.08950E+05	4.0423
2750.0	26.326	65164.	101.52	-2.14013E+05	4.0650
2800.0	26.326	66480.	101.99	-2.19101E+05	4.0873
2850.0	26.326	67797.	102.46	-2.24213E+05	4.1093
2900.0	26.326	69113.	102.92	-2.29347E+05	4.1309
2950.0	26.326	70429.	103.37	-2.34504E+05	4.1522
3000.0	26.326	71746.	103.81	-2.39684E+05	4.1732

P<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.775	3.16500E+05	163.20	2.67843E+05	-46.924
300.00	20.777	3.16538E+05	163.33	2.67541E+05	-46.582
350.00	20.804	3.17578E+05	166.53	2.59292E+05	-38.696
400.00	20.815	3.18619E+05	169.31	2.50895E+05	-32.763
450.00	20.816	3.19659E+05	171.76	2.42367E+05	-28.132
500.00	20.812	3.20700E+05	173.95	2.33723E+05	-24.416
550.00	20.805	3.21741E+05	175.94	2.24975E+05	-21.366
600.00	20.798	3.22781E+05	177.75	2.16132E+05	-18.815
650.00	20.790	3.23820E+05	179.41	2.07203E+05	-16.651
700.00	20.782	3.24860E+05	180.95	1.98193E+05	-14.789
750.00	20.775	3.25898E+05	182.39	1.89109E+05	-13.170
800.00	20.769	3.26937E+05	183.73	1.79956E+05	-11.750
850.00	20.765	3.27975E+05	184.99	1.70738E+05	-10.492
900.00	20.762	3.29014E+05	186.17	1.61459E+05	-9.3706
950.00	20.760	3.30052E+05	187.29	1.52122E+05	-8.3640
1000.0	20.760	3.31090E+05	188.36	1.42730E+05	-7.4553
1050.0	20.761	3.32128E+05	189.37	1.33287E+05	-6.6305
1100.0	20.765	3.33166E+05	190.34	1.23794E+05	-5.8783
1150.0	20.770	3.34204E+05	191.26	1.14253E+05	-5.1894
1200.0	20.777	3.35243E+05	192.15	1.04668E+05	-4.5560
1250.0	20.785	3.36282E+05	192.99	95040.	-3.9714
1300.0	20.796	3.37321E+05	193.81	85369.	-3.4301
1350.0	20.808	3.38361E+05	194.59	75659.	-2.9274
1400.0	20.822	3.39402E+05	195.35	65910.	-2.4591
1450.0	20.838	3.40444E+05	196.08	56124.	-2.0218
1500.0	20.856	3.41486E+05	196.79	46303.	-1.6124
1550.0	20.876	3.42529E+05	197.47	36446.	-1.2282
1600.0	20.898	3.43574E+05	198.14	26556.	-0.86693
1650.0	20.921	3.44619E+05	198.78	16633.	-0.52653
1700.0	20.947	3.45666E+05	199.40	6677.9	-0.20518
1750.0	20.974	3.46714E+05	200.01	-3307.6	9.8E-02
1800.0	21.003	3.47763E+05	200.60	-13323.	0.38662
1850.0	21.035	3.48814E+05	201.18	-23368.	0.65977
1900.0	21.069	3.49867E+05	201.74	-33441.	0.91933
1950.0	21.101	3.50921E+05	202.29	-43542.	1.1663
2000.0	21.147	3.51977E+05	202.82	-53669.	1.4017
2050.0	21.205	3.53036E+05	203.35	-63824.	1.6262
2100.0	21.273	3.54098E+05	203.86	-74004.	1.8407
2150.0	21.351	3.55163E+05	204.36	-84209.	2.0458
2200.0	21.437	3.56233E+05	204.85	-94440.	2.2422
2250.0	21.532	3.57307E+05	205.33	-1.04694E+05	2.4305
2300.0	21.633	3.58386E+05	205.81	-1.14973E+05	2.6110
2350.0	21.741	3.59471E+05	206.27	-1.25275E+05	2.7845
2400.0	21.855	3.60560E+05	206.73	-1.35600E+05	2.9512
2450.0	21.973	3.61656E+05	207.19	-1.45948E+05	3.1116
2500.0	22.097	3.62758E+05	207.63	-1.56319E+05	3.2660
2550.0	22.225	3.63866E+05	208.07	-1.66711E+05	3.4149
2600.0	22.357	3.64980E+05	208.50	-1.77125E+05	3.5584
2650.0	22.493	3.66102E+05	208.93	-1.87561E+05	3.6970
2700.0	22.632	3.67230E+05	209.35	-1.98018E+05	3.8308
2750.0	22.774	3.68365E+05	209.77	-2.08496E+05	3.9602
2800.0	22.918	3.69507E+05	210.18	-2.18995E+05	4.0853
2850.0	23.065	3.70657E+05	210.59	-2.29514E+05	4.2064
2900.0	23.215	3.71814E+05	210.99	-2.40054E+05	4.3237
2950.0	23.366	3.72978E+05	211.39	-2.50613E+05	4.4374
3000.0	23.519	3.74150E+05	211.78	-2.61192E+05	4.5476

PBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	76.042	-1.45896E+05	348.24	-2.49725E+05	43.750
300.00	76.121	-1.45755E+05	348.71	-2.50369E+05	43.592
350.00	77.829	-1.41903E+05	360.59	-2.68108E+05	40.012
400.00	78.963	-1.37982E+05	371.06	-2.86405E+05	37.400
450.00	79.762	-1.34013E+05	380.41	-3.05195E+05	35.425
500.00	80.350	-1.30009E+05	388.84	-3.24430E+05	33.892
550.00	80.799	-1.25980E+05	396.52	-3.44067E+05	32.676
600.00	81.152	-1.21931E+05	403.57	-3.64072E+05	31.694
650.00	81.435	-1.17866E+05	410.08	-3.84415E+05	30.891
700.00	81.666	-1.13788E+05	416.12	-4.05072E+05	30.226
750.00	81.858	-1.09700E+05	421.76	-4.26020E+05	29.670
800.00	82.018	-1.05603E+05	427.05	-4.47242E+05	29.201
850.00	82.152	-1.01499E+05	432.02	-4.68720E+05	28.803
900.00	82.265	-97388.	436.72	-4.90440E+05	28.464
950.00	82.361	-93272.	441.17	-5.12388E+05	28.172
1000.0	82.440	-89152.	445.40	-5.34553E+05	27.921
1050.0	82.507	-85029.	449.43	-5.56925E+05	27.705
1100.0	82.561	-80902.	453.26	-5.79493E+05	27.517
1150.0	82.605	-76773.	456.94	-6.02248E+05	27.354
1200.0	82.638	-72642.	460.45	-6.25184E+05	27.213
1250.0	82.678	-68509.	463.83	-6.48291E+05	27.090
1300.0	82.713	-64374.	467.07	-6.71564E+05	26.983
1350.0	82.745	-60237.	470.19	-6.94996E+05	26.890
1400.0	82.773	-56099.	473.20	-7.18582E+05	26.810
1450.0	82.798	-51960.	476.11	-7.42315E+05	26.740
1500.0	82.821	-47820.	478.91	-7.66191E+05	26.680
1550.0	82.842	-43678.	481.63	-7.90205E+05	26.629
1600.0	82.860	-39535.	484.26	-8.14352E+05	26.585
1650.0	82.877	-35392.	486.81	-8.38629E+05	26.548
1700.0	82.893	-31248.	489.28	-8.63032E+05	26.517
1750.0	82.907	-27103.	491.69	-8.87557E+05	26.491
1800.0	82.920	-22957.	494.02	-9.12200E+05	26.471
1850.0	82.932	-18811.	496.30	-9.36958E+05	26.454
1900.0	82.943	-14664.	498.51	-9.61828E+05	26.442
1950.0	82.954	-10516.	500.66	-9.86808E+05	26.433
2000.0	82.963	-6368.5	502.76	-1.01189E+06	26.427
2050.0	82.972	-2220.1	504.81	-1.03708E+06	26.425
2100.0	82.980	1928.7	506.81	-1.06237E+06	26.424
2150.0	82.987	6077.8	508.76	-1.08776E+06	26.427
2200.0	82.995	10227.	510.67	-1.11325E+06	26.431
2250.0	83.001	14377.	512.54	-1.13883E+06	26.438
2300.0	83.007	18528.	514.36	-1.16450E+06	26.446
2350.0	83.013	22678.	516.15	-1.19027E+06	26.456
2400.0	83.019	26829.	517.89	-1.21612E+06	26.467
2450.0	83.024	30980.	519.61	-1.24205E+06	26.480
2500.0	83.028	35131.	521.28	-1.26808E+06	26.494
2550.0	83.033	39283.	522.93	-1.29418E+06	26.510
2600.0	83.037	43434.	524.54	-1.32037E+06	26.526
2650.0	83.041	47586.	526.12	-1.34664E+06	26.543
2700.0	83.045	51739.	527.67	-1.37298E+06	26.561
2750.0	83.049	55891.	529.20	-1.39940E+06	26.580
2800.0	83.052	60043.	530.69	-1.42590E+06	26.600
2850.0	83.055	64196.	532.16	-1.45247E+06	26.620
2900.0	83.059	68349.	533.61	-1.47912E+06	26.641
2950.0	83.061	72502.	535.03	-1.50583E+06	26.663
3000.0	83.064	76655.	536.42	-1.53262E+06	26.685

Pb

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.836	0.00000E+00	64.800	-19320.	3.3847
300.00	26.851	49.661	64.966	-19440.	3.3847
350.00	27.265	1402.5	69.136	-22795.	3.4019
400.00	27.686	2776.3	72.804	-26345.	3.4403
450.00	28.114	4171.2	76.090	-30069.	3.4903
500.00	28.549	5587.8	79.074	-33949.	3.5466
550.00	28.992	7026.2	81.816	-37973.	3.6062
600.00	29.442	8487.1	84.358	-42128.	3.6674
600.61	29.447	8505.0	84.388	-42179.	3.6682
600.61	30.634	13279.	92.336	-42179.	3.6682
650.00	30.481	14788.	94.751	-46800.	3.7608
700.00	30.327	16308.	97.004	-51595.	3.8500
750.00	30.172	17821.	99.092	-56498.	3.9348
800.00	30.018	19326.	101.03	-61502.	4.0155
850.00	29.863	20823.	102.85	-66599.	4.0926
900.00	29.708	22312.	104.55	-71785.	4.1662
950.00	29.554	23793.	106.15	-77053.	4.2365
1000.0	29.399	25267.	107.67	-82398.	4.3039
1050.0	29.245	26733.	109.10	-87818.	4.3686
1100.0	29.090	28192.	110.45	-93307.	4.4307
1150.0	28.935	29642.	111.74	-98862.	4.4903
1200.0	28.781	31085.	112.97	-1.04480E+05	4.5478
1250.0	28.703	32522.	114.14	-1.10158E+05	4.6031
1300.0	28.656	33956.	115.27	-1.15894E+05	4.6565
1350.0	28.634	35388.	116.35	-1.21684E+05	4.7081
1400.0	28.634	36820.	117.39	-1.27528E+05	4.7580
1450.0	28.652	38252.	118.40	-1.33423E+05	4.8063
1500.0	28.685	39685.	119.37	-1.39367E+05	4.8531
1550.0	28.731	41121.	120.31	-1.45359E+05	4.8984
1600.0	28.789	42559.	121.22	-1.51398E+05	4.9425
1650.0	28.856	44000.	122.11	-1.57481E+05	4.9853
1700.0	28.931	45444.	122.97	-1.63608E+05	5.0269
1750.0	29.012	46893.	123.81	-1.69778E+05	5.0675
1800.0	29.099	48346.	124.63	-1.75989E+05	5.1069
1850.0	29.191	49803.	125.43	-1.82241E+05	5.1454
1900.0	29.287	51265.	126.21	-1.88532E+05	5.1830
1950.0	29.387	52732.	126.97	-1.94861E+05	5.2196
2000.0	29.489	54204.	127.72	-2.01228E+05	5.2554

Pb<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.782	1.95200E+05	175.37	1.42912E+05	-25.037
300.00	20.783	1.95238E+05	175.50	1.42588E+05	-24.826
350.00	20.801	1.96278E+05	178.71	1.33730E+05	-19.958
400.00	20.803	1.97318E+05	181.49	1.24724E+05	-16.287
450.00	20.798	1.98358E+05	183.94	1.15587E+05	-13.417
500.00	20.791	1.99398E+05	186.13	1.06335E+05	-11.108
550.00	20.784	2.00437E+05	188.11	96978.	-9.2100
600.00	20.777	2.01476E+05	189.92	87527.	-7.6197
650.00	20.773	2.02515E+05	191.58	77989.	-6.2671
700.00	20.772	2.03554E+05	193.12	68371.	-5.1018
750.00	20.773	2.04592E+05	194.55	58679.	-4.0867
800.00	20.778	2.05631E+05	195.89	48917.	-3.1939
850.00	20.787	2.06670E+05	197.15	39091.	-2.4022
900.00	20.799	2.07710E+05	198.34	29203.	-1.6949
950.00	20.816	2.08750E+05	199.47	19258.	-1.0588
1000.0	20.836	2.09792E+05	200.53	9257.7	-0.48356
1050.0	20.860	2.10834E+05	201.55	-794.62	3.9E-02
1100.0	20.888	2.11878E+05	202.52	-10897.	0.51743
1150.0	20.923	2.12923E+05	203.45	-21046.	0.95592
1200.0	20.976	2.13970E+05	204.34	-31241.	1.3599
1250.0	21.050	2.15021E+05	205.20	-41480.	1.7333
1300.0	21.144	2.16076E+05	206.03	-51761.	2.0797
1350.0	21.259	2.17136E+05	206.83	-62082.	2.4020
1400.0	21.394	2.18202E+05	207.60	-72443.	2.7028
1450.0	21.550	2.19275E+05	208.36	-82842.	2.9842
1500.0	21.727	2.20357E+05	209.09	-93278.	3.2482
1550.0	21.925	2.21448E+05	209.81	-1.03751E+05	3.4963
1600.0	22.145	2.22550E+05	210.51	-1.14259E+05	3.7301
1650.0	22.386	2.23663E+05	211.19	-1.24801E+05	3.9508
1700.0	22.649	2.24789E+05	211.86	-1.35378E+05	4.1595
1750.0	22.933	2.25929E+05	212.52	-1.45987E+05	4.3574
1800.0	23.238	2.27083E+05	213.17	-1.56630E+05	4.5452
1850.0	23.566	2.28253E+05	213.81	-1.67305E+05	4.7237
1900.0	23.914	2.29440E+05	214.45	-1.78011E+05	4.8937
1950.0	24.285	2.30645E+05	215.07	-1.88749E+05	5.0559
2000.0	24.678	2.31869E+05	215.69	-1.99518E+05	5.2108
2050.0	25.077	2.33112E+05	216.31	-2.10318E+05	5.3588
2100.0	25.495	2.34377E+05	216.92	-2.21149E+05	5.5006
2150.0	25.926	2.35662E+05	217.52	-2.32010E+05	5.6366
2200.0	26.368	2.36969E+05	218.12	-2.42901E+05	5.7671
2250.0	26.817	2.38299E+05	218.72	-2.53822E+05	5.8924
2300.0	27.272	2.39651E+05	219.31	-2.64773E+05	6.0130
2350.0	27.729	2.41026E+05	219.91	-2.75754E+05	6.1292
2400.0	28.186	2.42424E+05	220.49	-2.86764E+05	6.2411
2450.0	28.642	2.43845E+05	221.08	-2.97803E+05	6.3491
2500.0	29.094	2.45288E+05	221.66	-3.08872E+05	6.4534
2550.0	29.542	2.46754E+05	222.24	-3.19970E+05	6.5541
2600.0	29.982	2.48242E+05	222.82	-3.31096E+05	6.6516
2650.0	30.416	2.49752E+05	223.40	-3.42252E+05	6.7460
2700.0	30.840	2.51284E+05	223.97	-3.53436E+05	6.8375
2750.0	31.254	2.52836E+05	224.54	-3.64649E+05	6.9261
2800.0	31.657	2.54409E+05	225.11	-3.75890E+05	7.0121
2850.0	32.048	2.56002E+05	225.67	-3.87159E+05	7.0957
2900.0	32.427	2.57613E+05	226.23	-3.98457E+05	7.1768
2950.0	32.792	2.59244E+05	226.79	-4.09782E+05	7.2557
3000.0	33.143	2.60892E+05	227.34	-4.21136E+05	7.3324

PbCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.212	8820.0	261.30	-69087.	12.103
300.00	36.230	8887.0	261.53	-69571.	12.113
350.00	36.607	10709.	267.14	-82791.	12.356
400.00	36.855	12546.	272.05	-96273.	12.572
450.00	37.028	14393.	276.40	-1.09986E+05	12.767
500.00	37.156	16248.	280.31	-1.23906E+05	12.944
550.00	37.257	18108.	283.85	-1.38011E+05	13.107
600.00	37.339	19973.	287.10	-1.52286E+05	13.257
650.00	37.409	21842.	290.09	-1.66717E+05	13.397
700.00	37.471	23714.	292.86	-1.81291E+05	13.528
750.00	37.529	25589.	295.45	-1.96000E+05	13.650
800.00	37.584	27467.	297.88	-2.10834E+05	13.766
850.00	37.637	29347.	300.16	-2.25785E+05	13.875
900.00	37.689	31230.	302.31	-2.40847E+05	13.978
950.00	37.742	33116.	304.35	-2.56014E+05	14.076
1000.0	37.796	35005.	306.28	-2.71280E+05	14.170
1050.0	37.851	36896.	308.13	-2.86641E+05	14.259
1100.0	37.907	38790.	309.89	-3.02092E+05	14.345
1150.0	37.966	40686.	311.58	-3.17629E+05	14.427
1200.0	38.027	42586.	313.20	-3.33249E+05	14.506
1250.0	38.089	44489.	314.75	-3.48947E+05	14.581
1300.0	38.155	46395.	316.24	-3.64722E+05	14.654
1350.0	38.222	48305.	317.69	-3.80571E+05	14.725
1400.0	38.293	50218.	319.08	-3.96490E+05	14.793
1450.0	38.366	52134.	320.42	-4.12478E+05	14.859
1500.0	38.442	54054.	321.72	-4.28532E+05	14.922
1550.0	38.521	55978.	322.99	-4.44650E+05	14.984
1600.0	38.602	57906.	324.21	-4.60830E+05	15.044
1650.0	38.687	59839.	325.40	-4.77070E+05	15.102
1700.0	38.775	61775.	326.56	-4.93369E+05	15.159
1750.0	38.865	63716.	327.68	-5.09725E+05	15.214
1800.0	38.959	65662.	328.78	-5.26137E+05	15.268
1850.0	39.055	67612.	329.85	-5.42602E+05	15.320
1900.0	39.155	69567.	330.89	-5.59121E+05	15.371
1950.0	39.257	71528.	331.91	-5.75691E+05	15.421
2000.0	39.363	73493.	332.90	-5.92311E+05	15.469
2050.0	39.472	75464.	333.88	-6.08981E+05	15.517
2100.0	39.584	77440.	334.83	-6.25698E+05	15.563
2150.0	39.699	79422.	335.76	-6.42463E+05	15.608
2200.0	39.817	81410.	336.67	-6.59274E+05	15.653
2250.0	39.939	83404.	337.57	-6.76130E+05	15.696
2300.0	40.063	85404.	338.45	-6.93031E+05	15.739
2350.0	40.191	87411.	339.31	-7.09975E+05	15.781
2400.0	40.321	89423.	340.16	-7.26962E+05	15.822
2450.0	40.455	91443.	340.99	-7.43991E+05	15.862
2500.0	40.592	93469.	341.81	-7.61061E+05	15.901
2550.0	40.733	95502.	342.62	-7.78172E+05	15.940
2600.0	40.876	97542.	343.41	-7.95322E+05	15.978
2650.0	41.023	99590.	344.19	-8.12512E+05	16.015
2700.0	41.172	1.01645E+05	344.96	-8.29741E+05	16.052
2750.0	41.325	1.03707E+05	345.71	-8.47008E+05	16.088
2800.0	41.479	1.05777E+05	346.46	-8.64312E+05	16.124
2850.0	41.626	1.07855E+05	347.20	-8.81654E+05	16.158
2900.0	41.769	1.09940E+05	347.92	-8.99032E+05	16.193
2950.0	41.908	1.12032E+05	348.64	-9.16446E+05	16.227
3000.0	42.043	1.14130E+05	349.34	-9.33895E+05	16.260

PbCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	55.278	-1.75548E+05	315.62	-2.69649E+05	47.240
300.00	55.313	-1.75446E+05	315.96	-2.70233E+05	47.051
350.00	56.067	-1.72660E+05	324.55	-2.86251E+05	42.720
400.00	56.556	-1.69843E+05	332.07	-3.02670E+05	39.524
450.00	56.892	-1.67007E+05	338.75	-3.19443E+05	37.079
500.00	57.133	-1.64156E+05	344.76	-3.36534E+05	35.157
550.00	57.312	-1.61294E+05	350.21	-3.53910E+05	33.611
600.00	57.448	-1.58425E+05	355.20	-3.71547E+05	32.345
650.00	57.554	-1.55550E+05	359.81	-3.89424E+05	31.294
700.00	57.638	-1.52670E+05	364.07	-4.07522E+05	30.409
750.00	57.707	-1.49787E+05	368.05	-4.25826E+05	29.656
800.00	57.763	-1.46900E+05	371.78	-4.44323E+05	29.011
850.00	57.810	-1.44010E+05	375.28	-4.63000E+05	28.452
900.00	57.849	-1.41119E+05	378.59	-4.81848E+05	27.965
950.00	57.883	-1.38226E+05	381.72	-5.00856E+05	27.538
1000.0	57.911	-1.35331E+05	384.69	-5.20017E+05	27.162
1050.0	57.936	-1.32435E+05	387.51	-5.39322E+05	26.829
1100.0	57.958	-1.29537E+05	390.21	-5.58766E+05	26.533
1150.0	57.977	-1.26639E+05	392.78	-5.78341E+05	26.268
1200.0	57.994	-1.23739E+05	395.25	-5.98043E+05	26.031
1250.0	58.009	-1.20839E+05	397.62	-6.17865E+05	25.819
1300.0	58.022	-1.17939E+05	399.90	-6.37803E+05	25.627
1350.0	58.035	-1.15037E+05	402.09	-6.57853E+05	25.453
1400.0	58.045	-1.12135E+05	404.20	-6.78010E+05	25.296
1450.0	58.055	-1.09233E+05	406.23	-6.98271E+05	25.154
1500.0	58.064	-1.06330E+05	408.20	-7.18632E+05	25.024
1550.0	58.072	-1.03426E+05	410.11	-7.39090E+05	24.907
1600.0	58.080	-1.00522E+05	411.95	-7.59642E+05	24.799
1650.0	58.087	-97618.	413.74	-7.80284E+05	24.701
1700.0	58.093	-94714.	415.47	-8.01015E+05	24.612
1750.0	58.099	-91809.	417.16	-8.21831E+05	24.530
1800.0	58.105	-88904.	418.79	-8.42730E+05	24.455
1850.0	58.110	-85998.	420.38	-8.63709E+05	24.386
1900.0	58.114	-83093.	421.93	-8.84767E+05	24.323
1950.0	58.119	-80187.	423.44	-9.05902E+05	24.266
2000.0	58.123	-77281.	424.92	-9.27111E+05	24.213
2050.0	58.127	-74375.	426.35	-9.48393E+05	24.165
2100.0	58.130	-71468.	427.75	-9.69746E+05	24.120
2150.0	58.134	-68562.	429.12	-9.91167E+05	24.080
2200.0	58.137	-65655.	430.46	-1.01266E+06	24.043
2250.0	58.140	-62748.	431.76	-1.03421E+06	24.009
2300.0	58.143	-59841.	433.04	-1.05583E+06	23.978
2350.0	58.146	-56934.	434.29	-1.07752E+06	23.950
2400.0	58.148	-54026.	435.51	-1.09926E+06	23.924
2450.0	58.151	-51119.	436.71	-1.12107E+06	23.901
2500.0	58.153	-48211.	437.89	-1.14293E+06	23.880
2550.0	58.155	-45304.	439.04	-1.16486E+06	23.860
2600.0	58.157	-42396.	440.17	-1.18684E+06	23.843
2650.0	58.159	-39488.	441.28	-1.20887E+06	23.828
2700.0	58.161	-36580.	442.36	-1.23096E+06	23.814
2750.0	58.163	-33672.	443.43	-1.25311E+06	23.801
2800.0	58.165	-30764.	444.48	-1.27531E+06	23.791
2850.0	58.166	-27855.	445.51	-1.29756E+06	23.781
2900.0	58.168	-24947.	446.52	-1.31986E+06	23.773
2950.0	58.169	-22038.	447.51	-1.34221E+06	23.765
3000.0	58.171	-19130.	448.49	-1.36461E+06	23.759

PbBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.915	64822.	272.74	-16496.	2.8899
300.00	36.925	64890.	272.97	-17001.	2.9600
350.00	37.132	66742.	278.68	-30795.	4.5958
400.00	37.269	68602.	283.65	-44856.	5.8574
450.00	37.367	70468.	288.04	-59150.	6.8658
500.00	37.441	72339.	291.98	-73653.	7.6942
550.00	37.501	74212.	295.55	-88342.	8.3899
600.00	37.553	76089.	298.82	-1.03203E+05	8.9844
650.00	37.599	77967.	301.83	-1.18220E+05	9.5000
700.00	37.643	79848.	304.61	-1.33382E+05	9.9528
750.00	37.685	81732.	307.21	-1.48678E+05	10.355
800.00	37.727	83617.	309.65	-1.64101E+05	10.714
850.00	37.769	85504.	311.94	-1.79641E+05	11.039
900.00	37.813	87394.	314.10	-1.95292E+05	11.334
950.00	37.858	89286.	316.14	-2.11048E+05	11.604
1000.0	37.905	91180.	318.08	-2.26904E+05	11.852
1050.0	37.954	93076.	319.93	-2.42855E+05	12.081
1100.0	38.005	94975.	321.70	-2.58896E+05	12.294
1150.0	38.058	96877.	323.39	-2.75024E+05	12.492
1200.0	38.114	98781.	325.01	-2.91234E+05	12.677
1250.0	38.173	1.00688E+05	326.57	-3.07524E+05	12.850
1300.0	38.234	1.02598E+05	328.07	-3.23890E+05	13.014
1350.0	38.299	1.04512E+05	329.51	-3.40330E+05	13.168
1400.0	38.365	1.06428E+05	330.91	-3.56841E+05	13.314
1450.0	38.435	1.08348E+05	332.25	-3.73420E+05	13.452
1500.0	38.508	1.10272E+05	333.56	-3.90065E+05	13.583
1550.0	38.584	1.12199E+05	334.82	-4.06775E+05	13.708
1600.0	38.662	1.14130E+05	336.05	-4.23547E+05	13.827
1650.0	38.744	1.16065E+05	337.24	-4.40379E+05	13.941
1700.0	38.828	1.18005E+05	338.40	-4.57270E+05	14.050
1750.0	38.916	1.19948E+05	339.52	-4.74219E+05	14.154
1800.0	39.006	1.21896E+05	340.62	-4.91222E+05	14.255
1850.0	39.100	1.23849E+05	341.69	-5.08280E+05	14.351
1900.0	39.196	1.25806E+05	342.74	-5.25391E+05	14.444
1950.0	39.296	1.27769E+05	343.75	-5.42553E+05	14.533
2000.0	39.399	1.29736E+05	344.75	-5.59766E+05	14.619
2050.0	39.504	1.31708E+05	345.73	-5.77028E+05	14.702
2100.0	39.613	1.33686E+05	346.68	-5.94338E+05	14.783
2150.0	39.725	1.35670E+05	347.61	-6.11696E+05	14.861
2200.0	39.840	1.37659E+05	348.53	-6.29099E+05	14.936
2250.0	39.958	1.39654E+05	349.42	-6.46548E+05	15.009
2300.0	40.079	1.41655E+05	350.30	-6.64041E+05	15.080
2350.0	40.203	1.43662E+05	351.17	-6.81578E+05	15.149
2400.0	40.331	1.45675E+05	352.01	-6.99158E+05	15.216
2450.0	40.461	1.47695E+05	352.85	-7.16779E+05	15.282
2500.0	40.595	1.49721E+05	353.67	-7.34442E+05	15.345
2550.0	40.731	1.51755E+05	354.47	-7.52145E+05	15.407
2600.0	40.868	1.53795E+05	355.26	-7.69889E+05	15.467
2650.0	41.009	1.55842E+05	356.04	-7.87672E+05	15.526
2700.0	41.138	1.57895E+05	356.81	-8.05493E+05	15.583
2750.0	41.258	1.59955E+05	357.57	-8.23352E+05	15.639
2800.0	41.369	1.62021E+05	358.31	-8.41249E+05	15.693
2850.0	41.470	1.64092E+05	359.04	-8.59183E+05	15.747
2900.0	41.564	1.66168E+05	359.77	-8.77154E+05	15.799
2950.0	41.649	1.68248E+05	360.48	-8.95160E+05	15.850
3000.0	41.727	1.70333E+05	361.18	-9.13201E+05	15.900

PbBr2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.580	-2.77399E+05	161.13	-3.25440E+05	57.014
300.00	79.578	-2.77252E+05	161.62	-3.25739E+05	56.715
350.00	80.069	-2.73265E+05	173.91	-3.34135E+05	49.866
400.00	81.256	-2.69234E+05	184.68	-3.43105E+05	44.804
450.00	82.845	-2.65132E+05	194.34	-3.52584E+05	40.926
500.00	84.682	-2.60945E+05	203.16	-3.62525E+05	37.872
550.00	86.680	-2.56661E+05	211.32	-3.72889E+05	35.413
600.00	88.784	-2.52275E+05	218.95	-3.83648E+05	33.399
644.00	90.699	-2.48327E+05	225.30	-3.93423E+05	31.910
644.00	112.13	-2.31884E+05	250.84	-3.93423E+05	31.910
650.00	112.13	-2.31211E+05	251.88	-3.94931E+05	31.736
700.00	112.13	-2.25604E+05	260.19	-4.07735E+05	30.425
750.00	112.13	-2.19998E+05	267.92	-4.20940E+05	29.316
800.00	112.13	-2.14391E+05	275.16	-4.34519E+05	28.370
850.00	112.13	-2.08785E+05	281.96	-4.48449E+05	27.558
900.00	112.13	-2.03178E+05	288.37	-4.62709E+05	26.854
950.00	112.13	-1.97572E+05	294.43	-4.77280E+05	26.242
1000.0	112.13	-1.91965E+05	300.18	-4.92146E+05	25.706
1050.0	112.13	-1.86358E+05	305.65	-5.07293E+05	25.236
1100.0	112.13	-1.80752E+05	310.87	-5.22707E+05	24.821
1150.0	112.13	-1.75145E+05	315.85	-5.38376E+05	24.453
1200.0	112.13	-1.69539E+05	320.63	-5.54289E+05	24.127
1250.0	112.13	-1.63932E+05	325.20	-5.70436E+05	23.837
1300.0	112.13	-1.58326E+05	329.60	-5.86806E+05	23.578
1350.0	112.13	-1.52719E+05	333.83	-6.03393E+05	23.346
1400.0	112.13	-1.47113E+05	337.91	-6.20187E+05	23.139
1450.0	112.13	-1.41506E+05	341.85	-6.37181E+05	22.953
1500.0	112.13	-1.35899E+05	345.65	-6.54369E+05	22.787
1550.0	112.13	-1.30293E+05	349.32	-6.71744E+05	22.637
1600.0	112.13	-1.24686E+05	352.88	-6.89300E+05	22.503
1650.0	112.13	-1.19080E+05	356.33	-7.07031E+05	22.382
1700.0	112.13	-1.13473E+05	359.68	-7.24931E+05	22.274
1750.0	112.13	-1.07867E+05	362.93	-7.42997E+05	22.177
1800.0	112.13	-1.02260E+05	366.09	-7.61223E+05	22.090
1850.0	112.13	-96653.	369.16	-7.79605E+05	22.012
1900.0	112.13	-91047.	372.15	-7.98138E+05	21.942
1950.0	112.13	-85440.	375.07	-8.16819E+05	21.880
2000.0	112.13	-79834.	377.90	-8.35643E+05	21.824

PbBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.916	-1.04391E+05	339.39	-2.05579E+05	36.016
300.00	56.932	-1.04285E+05	339.74	-2.06207E+05	35.903
350.00	57.266	-1.01430E+05	348.54	-2.23419E+05	33.343
400.00	57.482	-98561.	356.20	-2.41042E+05	31.476
450.00	57.631	-95683.	362.98	-2.59025E+05	30.066
500.00	57.737	-92798.	369.06	-2.77329E+05	28.972
550.00	57.816	-89910.	374.57	-2.95922E+05	28.104
600.00	57.876	-87017.	379.60	-3.14778E+05	27.403
650.00	57.923	-84122.	384.24	-3.33875E+05	26.830
700.00	57.960	-81225.	388.53	-3.53195E+05	26.355
750.00	57.990	-78326.	392.53	-3.72723E+05	25.958
800.00	58.015	-75426.	396.27	-3.92444E+05	25.623
850.00	58.035	-72525.	399.79	-4.12346E+05	25.339
900.00	58.053	-69623.	403.11	-4.32420E+05	25.096
950.00	58.067	-66720.	406.25	-4.52654E+05	24.888
1000.0	58.080	-63816.	409.23	-4.73042E+05	24.709
1050.0	58.090	-60912.	412.06	-4.93574E+05	24.553
1100.0	58.100	-58007.	414.76	-5.14246E+05	24.419
1150.0	58.108	-55102.	417.35	-5.35049E+05	24.302
1200.0	58.115	-52196.	419.82	-5.55978E+05	24.200
1250.0	58.122	-49290.	422.19	-5.77029E+05	24.112
1300.0	58.127	-46384.	424.47	-5.98196E+05	24.035
1350.0	58.132	-43477.	426.66	-6.19475E+05	23.968
1400.0	58.137	-40571.	428.78	-6.40861E+05	23.910
1450.0	58.141	-37664.	430.82	-6.62351E+05	23.860
1500.0	58.145	-34757.	432.79	-6.83942E+05	23.816
1550.0	58.148	-31849.	434.70	-7.05629E+05	23.779
1600.0	58.151	-28942.	436.54	-7.27410E+05	23.747
1650.0	58.154	-26034.	438.33	-7.49282E+05	23.720
1700.0	58.157	-23126.	440.07	-7.71243E+05	23.697
1750.0	58.159	-20219.	441.75	-7.93288E+05	23.678
1800.0	58.161	-17311.	443.39	-8.15417E+05	23.662
1850.0	58.163	-14402.	444.99	-8.37627E+05	23.650
1900.0	58.165	-11494.	446.54	-8.59915E+05	23.640
1950.0	58.167	-8585.9	448.05	-8.82280E+05	23.633
2000.0	58.169	-5677.5	449.52	-9.04719E+05	23.628
2050.0	58.170	-2769.0	450.96	-9.27231E+05	23.626
2100.0	58.172	139.54	452.36	-9.49815E+05	23.625
2150.0	58.173	3048.2	453.73	-9.72467E+05	23.626
2200.0	58.174	5956.8	455.07	-9.95187E+05	23.628
2250.0	58.175	8865.6	456.37	-1.01797E+06	23.632
2300.0	58.177	11774.	457.65	-1.04082E+06	23.637
2350.0	58.178	14683.	458.90	-1.06374E+06	23.644
2400.0	58.179	17592.	460.13	-1.08671E+06	23.651
2450.0	58.180	20501.	461.33	-1.10975E+06	23.660
2500.0	58.180	23410.	462.50	-1.13285E+06	23.669
2550.0	58.181	26319.	463.65	-1.15600E+06	23.679
2600.0	58.182	29228.	464.78	-1.17921E+06	23.690
2650.0	58.183	32137.	465.89	-1.20248E+06	23.702
2700.0	58.183	35047.	466.98	-1.22580E+06	23.714
2750.0	58.184	37956.	468.05	-1.24918E+06	23.727
2800.0	58.185	40865.	469.10	-1.27260E+06	23.740
2850.0	58.185	43774.	470.13	-1.29608E+06	23.754
2900.0	58.186	46683.	471.14	-1.31962E+06	23.768
2950.0	58.187	49593.	472.13	-1.34320E+06	23.783
3000.0	58.187	52502.	473.11	-1.36683E+06	23.798

PbBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	104.45	-1.82434E+05	427.72	-3.09958E+05	54.302
300.00	104.50	-1.82241E+05	428.36	-3.10750E+05	54.105
350.00	105.44	-1.76990E+05	444.55	-3.32582E+05	49.634
400.00	106.05	-1.71702E+05	458.67	-3.55170E+05	46.379
450.00	106.47	-1.66388E+05	471.19	-3.78423E+05	43.925
500.00	106.78	-1.61057E+05	482.42	-4.02268E+05	42.024
550.00	107.00	-1.55712E+05	492.61	-4.26647E+05	40.519
600.00	107.17	-1.50358E+05	501.93	-4.51514E+05	39.307
650.00	107.30	-1.44996E+05	510.51	-4.76828E+05	38.317
700.00	107.41	-1.39628E+05	518.47	-5.02555E+05	37.500
750.00	107.49	-1.34256E+05	525.88	-5.28666E+05	36.819
800.00	107.56	-1.28879E+05	532.82	-5.55135E+05	36.246
850.00	107.62	-1.23500E+05	539.34	-5.81941E+05	35.761
900.00	107.67	-1.18118E+05	545.49	-6.09063E+05	35.348
950.00	107.71	-1.12733E+05	551.32	-6.36485E+05	34.995
1000.0	107.74	-1.07347E+05	556.84	-6.64190E+05	34.693
1050.0	107.77	-1.01959E+05	562.10	-6.92164E+05	34.432
1100.0	107.80	-96569.	567.11	-7.20396E+05	34.208
1150.0	107.82	-91179.	571.91	-7.48872E+05	34.014
1200.0	107.84	-85787.	576.50	-7.77583E+05	33.846
1250.0	107.86	-80394.	580.90	-8.06519E+05	33.702
1300.0	107.88	-75001.	585.13	-8.35670E+05	33.577
1350.0	107.89	-69607.	589.20	-8.65029E+05	33.469
1400.0	107.91	-64212.	593.13	-8.94588E+05	33.377
1450.0	107.92	-58816.	596.91	-9.24339E+05	33.297
1500.0	107.93	-53420.	600.57	-9.54277E+05	33.230
1550.0	107.94	-48023.	604.11	-9.84395E+05	33.173
1600.0	107.95	-42626.	607.54	-1.01469E+06	33.125
1650.0	107.96	-37228.	610.86	-1.04515E+06	33.086
1700.0	107.96	-31830.	614.08	-1.07577E+06	33.054
1750.0	107.97	-26432.	617.21	-1.10655E+06	33.028
1800.0	107.98	-21033.	620.25	-1.13749E+06	33.008
1850.0	107.98	-15634.	623.21	-1.16858E+06	32.994
1900.0	107.99	-10235.	626.09	-1.19981E+06	32.984
1950.0	107.99	-4835.5	628.90	-1.23119E+06	32.979
2000.0	108.00	564.28	631.63	-1.26270E+06	32.977
2050.0	108.00	5964.3	634.30	-1.29435E+06	32.980
2100.0	108.01	11364.	636.90	-1.32613E+06	32.985
2150.0	108.01	16765.	639.44	-1.35804E+06	32.993
2200.0	108.01	22165.	641.93	-1.39007E+06	33.004
2250.0	108.02	27566.	644.35	-1.42223E+06	33.017
2300.0	108.02	32967.	646.73	-1.45451E+06	33.032
2350.0	108.02	38368.	649.05	-1.48690E+06	33.049
2400.0	108.03	43770.	651.32	-1.51941E+06	33.068
2450.0	108.03	49171.	653.55	-1.55203E+06	33.089
2500.0	108.03	54572.	655.73	-1.58476E+06	33.111
2550.0	108.03	59974.	657.87	-1.61760E+06	33.134
2600.0	108.04	65376.	659.97	-1.65055E+06	33.159
2650.0	108.04	70778.	662.03	-1.68360E+06	33.185
2700.0	108.04	76180.	664.05	-1.71675E+06	33.212
2750.0	108.04	81582.	666.03	-1.75001E+06	33.239
2800.0	108.04	86984.	667.98	-1.78336E+06	33.268
2850.0	108.05	92386.	669.89	-1.81680E+06	33.297
2900.0	108.05	97788.	671.77	-1.85034E+06	33.327
2950.0	108.05	1.03191E+05	673.62	-1.88398E+06	33.358
3000.0	108.05	1.08593E+05	675.43	-1.91771E+06	33.389

PbCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	87.517	-6.99146E+05	130.96	-7.38192E+05	129.32
300.00	87.738	-6.98984E+05	131.50	-7.38435E+05	128.57
350.00	93.722	-6.94448E+05	145.48	-7.45364E+05	111.24
400.00	99.705	-6.89612E+05	158.38	-7.52964E+05	98.325
450.00	105.69	-6.84477E+05	170.47	-7.61189E+05	88.354
500.00	111.67	-6.79043E+05	181.91	-7.70001E+05	80.439
550.00	117.65	-6.73310E+05	192.84	-7.79371E+05	74.017
600.00	123.64	-6.67278E+05	203.33	-7.89277E+05	68.711
650.00	129.62	-6.60947E+05	213.46	-7.99699E+05	64.263
700.00	135.60	-6.54316E+05	223.29	-8.10619E+05	60.488
750.00	141.59	-6.47386E+05	232.85	-8.22023E+05	57.249
800.00	147.57	-6.40157E+05	242.18	-8.33900E+05	54.447

Pd

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.193	0.00000E+00	37.823	-11277.	1.9756
300.00	25.227	46.639	37.979	-11347.	1.9756
350.00	25.883	1326.1	41.922	-13347.	1.9918
400.00	26.249	2630.2	45.404	-15532.	2.0282
450.00	26.469	3948.5	48.510	-17881.	2.0755
500.00	26.620	5275.9	51.307	-20377.	2.1288
550.00	26.747	6610.2	53.850	-23007.	2.1850
600.00	26.876	7950.7	56.183	-25759.	2.2425
650.00	27.022	9298.0	58.340	-28623.	2.3001
700.00	27.198	10653.	60.348	-31590.	2.3572
750.00	27.409	12018.	62.232	-34655.	2.4136
800.00	27.663	13395.	64.009	-37812.	2.4688
850.00	27.961	14785.	65.694	-41055.	2.5229
900.00	28.304	16192.	67.302	-44380.	2.5757
950.00	28.634	17615.	68.841	-47784.	2.6273
1000.0	28.999	19056.	70.319	-51263.	2.6776
1050.0	29.393	20516.	71.743	-54815.	2.7268
1100.0	29.808	21996.	73.120	-58437.	2.7749
1150.0	30.240	23497.	74.455	-62126.	2.8218
1200.0	30.685	25020.	75.751	-65881.	2.8677
1250.0	31.141	26565.	77.013	-69701.	2.9126
1300.0	31.605	28134.	78.243	-73582.	2.9565
1350.0	32.075	29726.	79.445	-77524.	2.9995
1400.0	32.549	31342.	80.620	-81526.	3.0417
1450.0	33.026	32981.	81.770	-85586.	3.0831
1500.0	33.505	34644.	82.898	-89703.	3.1237
1550.0	33.985	36331.	84.004	-93875.	3.1635
1600.0	34.465	38043.	85.091	-98103.	3.2027
1650.0	34.944	39778.	86.159	-1.02384E+05	3.2411
1700.0	35.422	41537.	87.209	-1.06719E+05	3.2790
1750.0	35.899	43320.	88.243	-1.11105E+05	3.3162
1800.0	36.373	45127.	89.261	-1.15543E+05	3.3529
1828.0	36.637	46149.	89.824	-1.18050E+05	3.3732
1828.0	41.170	62885.	98.980	-1.18050E+05	3.3732
1850.0	41.170	63791.	99.472	-1.20233E+05	3.3947
1900.0	41.170	65849.	100.57	-1.25234E+05	3.4428
1950.0	41.170	67908.	101.64	-1.30289E+05	3.4900
2000.0	41.170	69966.	102.68	-1.35397E+05	3.5361
2050.0	41.170	72025.	103.70	-1.40557E+05	3.5813
2100.0	41.170	74083.	104.69	-1.45767E+05	3.6257
2150.0	41.170	76142.	105.66	-1.51026E+05	3.6691
2200.0	41.170	78200.	106.61	-1.56332E+05	3.7117
2250.0	41.170	80259.	107.53	-1.61686E+05	3.7535
2300.0	41.170	82317.	108.44	-1.67085E+05	3.7945
2350.0	41.170	84376.	109.32	-1.72529E+05	3.8348
2400.0	41.170	86434.	110.19	-1.78017E+05	3.8743
2450.0	41.170	88493.	111.04	-1.83548E+05	3.9132
2500.0	41.170	90551.	111.87	-1.89120E+05	3.9514
2550.0	41.170	92610.	112.68	-1.94734E+05	3.9889
2600.0	41.170	94668.	113.48	-2.00389E+05	4.0258
2650.0	41.170	96727.	114.27	-2.06082E+05	4.0620
2700.0	41.170	98785.	115.04	-2.11815E+05	4.0977
2750.0	41.170	1.00844E+05	115.79	-2.17586E+05	4.1328
2800.0	41.170	1.02902E+05	116.53	-2.23394E+05	4.1674
2850.0	41.170	1.04961E+05	117.26	-2.29239E+05	4.2014
2900.0	41.170	1.07019E+05	117.98	-2.35120E+05	4.2349
2950.0	41.170	1.09078E+05	118.68	-2.41037E+05	4.2678
3000.0	41.170	1.11136E+05	119.37	-2.46988E+05	4.3003

PdCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.635	1.21545E+05	313.70	28016.	-4.9081
300.00	57.693	1.21652E+05	314.06	27435.	-4.7767
350.00	58.926	1.24570E+05	323.05	11502.	-1.7166
400.00	59.727	1.27537E+05	330.97	-4852.3	0.63363
450.00	60.275	1.30538E+05	338.04	-21581.	2.5050
500.00	60.668	1.33562E+05	344.41	-38645.	4.0371
550.00	60.958	1.36603E+05	350.21	-56013.	5.3195
600.00	61.179	1.39657E+05	355.53	-73658.	6.4123
650.00	61.351	1.42720E+05	360.43	-91559.	7.3576
700.00	61.488	1.45792E+05	364.98	-1.09695E+05	8.1853
750.00	61.598	1.48869E+05	369.23	-1.28052E+05	8.9181
800.00	61.688	1.51951E+05	373.21	-1.46613E+05	9.5726
850.00	61.762	1.55037E+05	376.95	-1.65368E+05	10.162
900.00	61.825	1.58127E+05	380.48	-1.84305E+05	10.696
950.00	61.878	1.61220E+05	383.82	-2.03413E+05	11.184
1000.0	61.923	1.64315E+05	387.00	-2.22684E+05	11.632
1050.0	61.962	1.67412E+05	390.02	-2.42110E+05	12.044
1100.0	61.996	1.70511E+05	392.90	-2.61684E+05	12.426
1150.0	62.025	1.73611E+05	395.66	-2.81399E+05	12.781
1200.0	62.051	1.76713E+05	398.30	-3.01248E+05	13.113
1250.0	62.074	1.79816E+05	400.83	-3.21227E+05	13.423
1300.0	62.094	1.82921E+05	403.27	-3.41330E+05	13.714
1350.0	62.112	1.86026E+05	405.61	-3.61553E+05	13.989
1400.0	62.128	1.89132E+05	407.87	-3.81890E+05	14.248
1450.0	62.143	1.92239E+05	410.05	-4.02339E+05	14.493
1500.0	62.156	1.95346E+05	412.16	-4.22894E+05	14.726
1550.0	62.167	1.98454E+05	414.20	-4.43553E+05	14.947
1600.0	62.178	2.01563E+05	416.17	-4.64313E+05	15.158

Pr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.447	0.00000E+00	73.931	-22043.	3.8617
300.00	27.485	50.812	74.101	-22179.	3.8617
350.00	28.094	1442.9	78.391	-25994.	3.8793
400.00	28.409	2855.5	82.164	-30010.	3.9188
450.00	28.869	4286.3	85.534	-34204.	3.9702
500.00	29.706	5748.8	88.615	-38558.	4.0281
550.00	30.591	7256.1	91.487	-43062.	4.0896
600.00	31.512	8808.5	94.188	-47704.	4.1529
650.00	32.470	10408.	96.748	-52478.	4.2171
700.00	33.465	12056.	99.190	-57377.	4.2814
750.00	34.497	13755.	101.53	-62396.	4.3455
800.00	35.690	15506.	103.79	-67529.	4.4091
850.00	36.718	17316.	105.99	-72774.	4.4720
900.00	37.949	19182.	108.12	-78127.	4.5343
950.00	39.245	21111.	110.21	-83585.	4.5957
1000.0	40.501	23105.	112.25	-89147.	4.6564
1050.0	41.639	25160.	114.26	-94810.	4.7164
1068.0	42.008	25912.	114.97	-96873.	4.7378
1068.0	38.451	29080.	117.93	-96873.	4.7378
1100.0	38.451	30310.	119.07	-1.00665E+05	4.7801
1150.0	38.451	32233.	120.78	-1.06662E+05	4.8446
1200.0	38.451	34155.	122.41	-1.12742E+05	4.9074
1204.0	38.451	34309.	122.54	-1.13232E+05	4.9123
1204.0	42.970	41196.	128.26	-1.13232E+05	4.9123
1250.0	42.970	43173.	129.87	-1.19169E+05	4.9797
1300.0	42.970	45321.	131.56	-1.25705E+05	5.0508
1350.0	42.970	47470.	133.18	-1.32324E+05	5.1198
1400.0	42.970	49618.	134.74	-1.39022E+05	5.1868
1450.0	42.970	51767.	136.25	-1.45797E+05	5.2520
1500.0	42.970	53915.	137.71	-1.52646E+05	5.3155
1550.0	42.970	56064.	139.12	-1.59567E+05	5.3772
1600.0	42.970	58212.	140.48	-1.66557E+05	5.4374
1650.0	42.970	60360.	141.80	-1.73614E+05	5.4960
1700.0	42.970	62509.	143.09	-1.80737E+05	5.5532
1750.0	42.970	64657.	144.33	-1.87922E+05	5.6090
1800.0	42.970	66806.	145.54	-1.95169E+05	5.6635
1850.0	42.970	68954.	146.72	-2.02476E+05	5.7168
1900.0	42.970	71103.	147.87	-2.09841E+05	5.7688
1950.0	42.970	73251.	148.98	-2.17262E+05	5.8196
2000.0	42.970	75400.	150.07	-2.24738E+05	5.8694
2050.0	42.970	77548.	151.13	-2.32269E+05	5.9181
2100.0	42.970	79697.	152.17	-2.39851E+05	5.9658
2150.0	42.970	81845.	153.18	-2.47485E+05	6.0125
2200.0	42.970	83994.	154.16	-2.55168E+05	6.0583
2250.0	42.970	86142.	155.13	-2.62901E+05	6.1032
2300.0	42.970	88291.	156.07	-2.70681E+05	6.1472
2350.0	42.970	90439.	157.00	-2.78508E+05	6.1904
2400.0	42.970	92588.	157.90	-2.86381E+05	6.2328
2450.0	42.970	94736.	158.79	-2.94298E+05	6.2743
2500.0	42.970	96885.	159.66	-3.02259E+05	6.3152
2550.0	42.970	99033.	160.51	-3.10263E+05	6.3553
2600.0	42.970	1.01182E+05	161.34	-3.18310E+05	6.3948
2650.0	42.970	1.03330E+05	162.16	-3.26397E+05	6.4335
2700.0	42.970	1.05479E+05	162.96	-3.34526E+05	6.4716
2750.0	42.970	1.07627E+05	163.75	-3.42694E+05	6.5091
2800.0	42.970	1.09776E+05	164.53	-3.50901E+05	6.5460
2850.0	42.970	1.11924E+05	165.29	-3.59146E+05	6.5822
2900.0	42.970	1.14073E+05	166.04	-3.67429E+05	6.6179
2950.0	42.970	1.16221E+05	166.77	-3.75749E+05	6.6531
3000.0	42.970	1.18370E+05	167.49	-3.84106E+05	6.6877

Pr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	21.357	3.55813E+05	189.81	2.99221E+05	-52.421
300.00	21.375	3.55853E+05	189.94	2.98870E+05	-52.037
350.00	21.934	3.56935E+05	193.28	2.89288E+05	-43.173
400.00	22.556	3.58047E+05	196.25	2.79549E+05	-36.504
450.00	23.196	3.59191E+05	198.94	2.69668E+05	-31.301
500.00	23.831	3.60366E+05	201.42	2.59658E+05	-27.126
550.00	24.448	3.61574E+05	203.72	2.49529E+05	-23.698
600.00	25.039	3.62811E+05	205.87	2.39289E+05	-20.831
650.00	25.598	3.64077E+05	207.90	2.28944E+05	-18.398
700.00	26.123	3.65370E+05	209.81	2.18501E+05	-16.304
750.00	26.618	3.66689E+05	211.63	2.07965E+05	-14.484
800.00	27.086	3.68031E+05	213.36	1.97339E+05	-12.885
850.00	27.544	3.69397E+05	215.02	1.86629E+05	-11.469
900.00	28.005	3.70786E+05	216.61	1.75839E+05	-10.205
950.00	28.479	3.72198E+05	218.13	1.64970E+05	-9.0704
1000.0	28.974	3.73634E+05	219.61	1.54026E+05	-8.0453
1050.0	29.495	3.75096E+05	221.03	1.43010E+05	-7.1142
1100.0	30.046	3.76584E+05	222.42	1.31923E+05	-6.2643
1150.0	30.631	3.78101E+05	223.77	1.20768E+05	-5.4853
1200.0	31.253	3.79648E+05	225.08	1.09547E+05	-4.7683
1250.0	31.914	3.81227E+05	226.37	98260.	-4.1060
1300.0	32.615	3.82840E+05	227.64	86910.	-3.4920
1350.0	33.359	3.84489E+05	228.88	75497.	-2.9211
1400.0	34.146	3.86176E+05	230.11	64022.	-2.3886
1450.0	34.977	3.87904E+05	231.32	52486.	-1.8907
1500.0	35.854	3.89675E+05	232.52	40890.	-1.4239
1550.0	36.740	3.91489E+05	233.71	29234.	-0.98515
1600.0	37.688	3.93350E+05	234.89	17519.	-0.57191
1650.0	38.681	3.95259E+05	236.07	5744.6	-0.18186
1700.0	39.704	3.97219E+05	237.24	-6088.1	0.18706
1750.0	40.745	3.99230E+05	238.41	-17979.	0.53664
1800.0	41.792	4.01293E+05	239.57	-29929.	0.86848
1850.0	42.836	4.03409E+05	240.73	-41936.	1.1840
1900.0	43.870	4.05577E+05	241.88	-54001.	1.4846
1950.0	44.885	4.07796E+05	243.04	-66124.	1.7712
2000.0	45.876	4.10065E+05	244.18	-78305.	2.0451
2050.0	46.837	4.12383E+05	245.33	-90543.	2.3070
2100.0	47.764	4.14748E+05	246.47	-1.02838E+05	2.5579
2150.0	48.651	4.17158E+05	247.60	-1.15189E+05	2.7985
2200.0	49.496	4.19612E+05	248.73	-1.27598E+05	3.0295
2250.0	50.302	4.22107E+05	249.85	-1.40062E+05	3.2515
2300.0	51.033	4.24641E+05	250.97	-1.52583E+05	3.4652
2350.0	51.693	4.27210E+05	252.07	-1.65159E+05	3.6710
2400.0	52.282	4.29809E+05	253.17	-1.77790E+05	3.8694
2450.0	52.804	4.32437E+05	254.25	-1.90476E+05	4.0609
2500.0	53.258	4.35089E+05	255.32	-2.03215E+05	4.2458
2550.0	53.648	4.37761E+05	256.38	-2.16007E+05	4.4246
2600.0	53.975	4.40452E+05	257.42	-2.28853E+05	4.5976
2650.0	54.239	4.43158E+05	258.46	-2.41750E+05	4.7651
2700.0	54.442	4.45875E+05	259.47	-2.54698E+05	4.9273
2750.0	54.585	4.48601E+05	260.47	-2.67697E+05	5.0846
2800.0	54.668	4.51333E+05	261.46	-2.80745E+05	5.2372
2850.0	54.694	4.54067E+05	262.42	-2.93842E+05	5.3854
2900.0	54.661	4.56801E+05	263.38	-3.06987E+05	5.5293
2950.0	54.574	4.59532E+05	264.31	-3.20179E+05	5.6692
3000.0	54.442	4.62258E+05	265.23	-3.33418E+05	5.8052

PrBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.043	-5.94546E+05	401.15	-7.14150E+05	125.11
300.00	80.082	-5.94398E+05	401.65	-7.14893E+05	124.47
350.00	80.954	-5.90371E+05	414.06	-7.35293E+05	109.73
400.00	81.612	-5.86306E+05	424.92	-7.56273E+05	98.757
450.00	82.178	-5.82211E+05	434.56	-7.77765E+05	90.278
500.00	82.714	-5.78089E+05	443.25	-7.99714E+05	83.543
550.00	83.256	-5.73940E+05	451.16	-8.22077E+05	78.072
600.00	83.827	-5.69763E+05	458.43	-8.44819E+05	73.546
650.00	84.388	-5.65558E+05	465.16	-8.67911E+05	69.744
700.00	84.935	-5.61324E+05	471.43	-8.91327E+05	66.510
750.00	85.463	-5.57064E+05	477.31	-9.15047E+05	63.728
800.00	85.968	-5.52779E+05	482.84	-9.39053E+05	61.312
850.00	86.449	-5.48468E+05	488.07	-9.63327E+05	59.197
900.00	86.904	-5.44134E+05	493.02	-9.87855E+05	57.332
950.00	87.331	-5.39778E+05	497.73	-1.01262E+06	55.677
1000.0	87.729	-5.35401E+05	502.22	-1.03762E+06	54.199
1050.0	88.098	-5.31006E+05	506.51	-1.06284E+06	52.872
1100.0	88.437	-5.26592E+05	510.62	-1.08827E+06	51.676
1150.0	88.745	-5.22163E+05	514.56	-1.11390E+06	50.594
1200.0	89.023	-5.17718E+05	518.34	-1.13973E+06	49.610
1250.0	89.270	-5.13261E+05	521.98	-1.16573E+06	48.712
1300.0	89.485	-5.08792E+05	525.48	-1.19192E+06	47.891
1350.0	89.669	-5.04313E+05	528.87	-1.21828E+06	47.137
1400.0	89.821	-4.99825E+05	532.13	-1.24481E+06	46.443
1450.0	89.961	-4.95331E+05	535.28	-1.27149E+06	45.803
1500.0	90.072	-4.90830E+05	538.34	-1.29833E+06	45.211
1550.0	90.158	-4.86324E+05	541.29	-1.32532E+06	44.662
1600.0	90.220	-4.81814E+05	544.15	-1.35246E+06	44.152
1650.0	90.261	-4.77302E+05	546.93	-1.37974E+06	43.678
1700.0	90.284	-4.72788E+05	549.63	-1.40715E+06	43.235
1750.0	90.288	-4.68274E+05	552.24	-1.43470E+06	42.822
1800.0	90.277	-4.63760E+05	554.79	-1.46238E+06	42.436
1850.0	90.250	-4.59247E+05	557.26	-1.49018E+06	42.074
1900.0	90.210	-4.54735E+05	559.67	-1.51810E+06	41.734
1950.0	90.156	-4.50226E+05	562.01	-1.54614E+06	41.415
2000.0	90.089	-4.45720E+05	564.29	-1.57430E+06	41.115

Pt

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.865	0.00000E+00	41.631	-12412.	2.1745
300.00	25.876	47.860	41.791	-12489.	2.1746
350.00	26.175	1349.2	45.803	-14682.	2.1911
400.00	26.459	2665.1	49.316	-17061.	2.2279
450.00	26.733	3994.9	52.449	-19607.	2.2759
500.00	27.002	5338.3	55.279	-22301.	2.3297
550.00	27.268	6695.1	57.865	-25131.	2.3867
600.00	27.531	8065.1	60.249	-28084.	2.4449
650.00	27.794	9448.2	62.463	-31153.	2.5034
700.00	28.055	10844.	64.533	-34328.	2.5616
750.00	28.317	12254.	66.477	-37604.	2.6189
800.00	28.578	13676.	68.313	-40974.	2.6753
850.00	28.839	15112.	70.053	-44434.	2.7305
900.00	29.100	16560.	71.709	-47978.	2.7845
950.00	29.362	18022.	73.289	-51603.	2.8373
1000.0	29.623	19496.	74.802	-55306.	2.8888
1050.0	29.886	20984.	76.254	-59083.	2.9391
1100.0	30.148	22485.	77.650	-62931.	2.9882
1150.0	30.411	23999.	78.996	-66847.	3.0362
1200.0	30.675	25526.	80.296	-70829.	3.0830
1250.0	30.939	27066.	81.554	-74876.	3.1288
1300.0	31.200	28620.	82.772	-78984.	3.1735
1350.0	31.467	30186.	83.955	-83152.	3.2173
1400.0	31.755	31767.	85.104	-87379.	3.2601
1450.0	32.066	33362.	86.224	-91662.	3.3019
1500.0	32.398	34974.	87.316	-96001.	3.3430
1550.0	32.752	36602.	88.384	-1.00394E+05	3.3832
1600.0	33.127	38249.	89.430	-1.04839E+05	3.4226
1650.0	33.522	39915.	90.456	-1.09336E+05	3.4612
1700.0	33.939	41602.	91.462	-1.13884E+05	3.4991
1750.0	34.376	43310.	92.452	-1.18482E+05	3.5364
1800.0	34.834	45040.	93.427	-1.23129E+05	3.5730
1850.0	35.312	46793.	94.388	-1.27825E+05	3.6090
1900.0	35.811	48571.	95.336	-1.32568E+05	3.6445
1950.0	36.330	50375.	96.273	-1.37358E+05	3.6793
2000.0	36.869	52205.	97.200	-1.42195E+05	3.7137
2041.5	37.332	53744.	97.962	-1.46245E+05	3.7418
2041.5	36.500	75919.	108.82	-1.46245E+05	3.7418
2050.0	36.500	76229.	108.98	-1.47170E+05	3.7498
2100.0	36.500	78054.	109.86	-1.52641E+05	3.7966
2150.0	36.500	79879.	110.71	-1.58155E+05	3.8423
2200.0	36.500	81704.	111.55	-1.63712E+05	3.8869
2250.0	36.500	83529.	112.37	-1.69310E+05	3.9305
2300.0	36.500	85354.	113.18	-1.74949E+05	3.9731
2350.0	36.500	87179.	113.96	-1.80628E+05	4.0148
2400.0	36.500	89004.	114.73	-1.86345E+05	4.0556
2450.0	36.500	90829.	115.48	-1.92100E+05	4.0955
2500.0	36.500	92654.	116.22	-1.97893E+05	4.1346
2550.0	36.500	94479.	116.94	-2.03722E+05	4.1730
2600.0	36.500	96304.	117.65	-2.09587E+05	4.2105
2650.0	36.500	98129.	118.35	-2.15487E+05	4.2474
2700.0	36.500	99954.	119.03	-2.21421E+05	4.2835
2750.0	36.500	1.01779E+05	119.70	-2.27389E+05	4.3190
2800.0	36.500	1.03604E+05	120.36	-2.33391E+05	4.3538
2850.0	36.500	1.05429E+05	121.00	-2.39425E+05	4.3881
2900.0	36.500	1.07254E+05	121.64	-2.45491E+05	4.4217
2950.0	36.500	1.09079E+05	122.26	-2.51588E+05	4.4547
3000.0	36.500	1.10904E+05	122.87	-2.57717E+05	4.4871

PtCl2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.411	-1.10876E+05	129.70	-1.49547E+05	26.199
300.00	75.479	-1.10736E+05	130.17	-1.49788E+05	26.080
350.00	77.320	-1.06916E+05	141.94	-1.56597E+05	23.370
400.00	79.161	-1.03004E+05	152.39	-1.63960E+05	21.410
450.00	81.002	-99000.	161.82	-1.71819E+05	19.944
500.00	82.843	-94904.	170.45	-1.80129E+05	18.817
550.00	84.684	-90716.	178.43	-1.88853E+05	17.935
600.00	86.525	-86436.	185.88	-1.97963E+05	17.234
650.00	88.366	-82063.	192.88	-2.07433E+05	16.669
700.00	90.207	-77599.	199.49	-2.17244E+05	16.211

PtBr2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.897	-80333.	154.81	-1.26489E+05	22.160
300.00	75.940	-80192.	155.28	-1.26776E+05	22.073
350.00	77.090	-76367.	167.07	-1.34841E+05	20.123
400.00	78.241	-72483.	177.44	-1.43459E+05	18.733
450.00	79.391	-68543.	186.72	-1.52567E+05	17.709
500.00	80.542	-64544.	195.15	-1.62117E+05	16.936
550.00	81.693	-60488.	202.88	-1.72070E+05	16.341
600.00	82.843	-56375.	210.03	-1.82395E+05	15.878
650.00	83.994	-52204.	216.71	-1.93065E+05	15.515
700.00	85.144	-47976.	222.98	-2.04059E+05	15.227
750.00	86.295	-43690.	228.89	-2.15357E+05	14.998
800.00	87.446	-39346.	234.50	-2.26943E+05	14.817
850.00	88.596	-34945.	239.83	-2.38802E+05	14.675
900.00	89.747	-30486.	244.93	-2.50922E+05	14.563
950.00	90.897	-25970.	249.81	-2.63292E+05	14.476
1000.0	92.048	-21397.	254.50	-2.75900E+05	14.411

PtBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	100.37	-1.27612E+05	179.91	-1.81253E+05	31.754
300.00	100.42	-1.27426E+05	180.53	-1.81586E+05	31.616
350.00	101.67	-1.22374E+05	196.11	-1.91011E+05	28.506
400.00	102.93	-1.17259E+05	209.76	-2.01165E+05	26.269
450.00	104.18	-1.12081E+05	221.96	-2.11964E+05	24.603
500.00	105.44	-1.06841E+05	233.00	-2.23342E+05	23.332
550.00	106.69	-1.01538E+05	243.11	-2.35248E+05	22.341
600.00	107.95	-96172.	252.45	-2.47640E+05	21.558
650.00	109.20	-90743.	261.14	-2.60482E+05	20.932
700.00	110.46	-85252.	269.28	-2.73745E+05	20.427
750.00	111.71	-79697.	276.94	-2.87402E+05	20.016
800.00	112.97	-74080.	284.19	-3.01432E+05	19.681
850.00	114.22	-68400.	291.08	-3.15815E+05	19.407
900.00	115.48	-62658.	297.64	-3.30534E+05	19.183
950.00	116.73	-56853.	303.92	-3.45574E+05	19.000
1000.0	117.99	-50985.	309.94	-3.60921E+05	18.852

PtBr4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	146.44	-1.40582E+05	251.04	-2.15430E+05	37.741
300.00	146.44	-1.40311E+05	251.95	-2.15895E+05	37.590
350.00	146.44	-1.32989E+05	274.52	-2.29071E+05	34.186
400.00	146.44	-1.25667E+05	294.07	-2.43297E+05	31.771
450.00	146.44	-1.18345E+05	311.32	-2.58440E+05	29.998
500.00	146.44	-1.11023E+05	326.75	-2.74399E+05	28.666

Pu

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	31.489	0.00000E+00	54.461	-16238.	2.8447
300.00	31.572	58.331	54.656	-16338.	2.8447
350.00	33.813	1692.9	59.691	-19199.	2.8652
397.61	35.947	3353.6	64.137	-22148.	2.9095
397.61	32.609	7059.6	73.457	-22148.	2.9095
400.00	32.640	7137.5	73.653	-22324.	2.9151
450.00	33.293	8785.9	77.535	-26105.	3.0301
487.90	33.788	10057.	80.247	-29095.	3.1149
487.90	33.225	10535.	81.227	-29096.	3.1149
500.00	33.503	10939.	82.044	-30083.	3.1427
550.00	34.651	12643.	85.291	-34267.	3.2544
593.06	35.639	14156.	87.940	-37998.	3.3466
593.06	34.887	14869.	89.142	-37998.	3.3466
600.00	34.962	15111.	89.548	-38618.	3.3619
650.00	35.503	16873.	92.368	-43166.	3.4688
700.00	36.043	18662.	95.019	-47852.	3.5706
736.40	36.436	19981.	96.856	-51344.	3.6419
736.40	35.560	20064.	96.969	-51344.	3.6419
750.00	35.560	20548.	97.620	-52667.	3.6680
755.67	35.560	20749.	97.888	-53221.	3.6788
755.67	33.720	22590.	100.32	-53222.	3.6788
800.00	33.720	24085.	102.25	-57712.	3.7681
850.00	33.720	25771.	104.29	-62876.	3.8638
900.00	33.720	27457.	106.22	-68139.	3.9546
913.00	33.720	27895.	106.70	-69523.	3.9774
913.00	42.248	30719.	109.79	-69523.	3.9775
950.00	42.248	32283.	111.47	-73617.	4.0476
1000.0	42.248	34395.	113.64	-79245.	4.1392
1050.0	42.248	36507.	115.70	-84979.	4.2274
1100.0	42.248	38620.	117.67	-90813.	4.3123
1150.0	42.248	40732.	119.54	-96744.	4.3941
1200.0	42.248	42845.	121.34	-1.02766E+05	4.4732
1250.0	42.248	44957.	123.07	-1.08877E+05	4.5496
1300.0	42.248	47069.	124.72	-1.15072E+05	4.6235
1350.0	42.248	49182.	126.32	-1.21348E+05	4.6951
1400.0	42.248	51294.	127.86	-1.27703E+05	4.7645
1450.0	42.248	53407.	129.34	-1.34133E+05	4.8319
1500.0	42.248	55519.	130.77	-1.40636E+05	4.8973
1550.0	42.248	57631.	132.16	-1.47209E+05	4.9608
1600.0	42.248	59744.	133.50	-1.53851E+05	5.0226
1650.0	42.248	61856.	134.80	-1.60558E+05	5.0827
1700.0	42.248	63969.	136.06	-1.67330E+05	5.1413
1750.0	42.248	66081.	137.28	-1.74163E+05	5.1984
1800.0	42.248	68193.	138.47	-1.81057E+05	5.2540
1850.0	42.248	70306.	139.63	-1.88010E+05	5.3083
1900.0	42.248	72418.	140.76	-1.95020E+05	5.3613
1950.0	42.248	74531.	141.85	-2.02085E+05	5.4131
2000.0	42.248	76643.	142.92	-2.09205E+05	5.4637
2050.0	42.248	78755.	143.97	-2.16377E+05	5.5132
2100.0	42.248	80868.	144.99	-2.23601E+05	5.5616
2150.0	42.248	82980.	145.98	-2.30875E+05	5.6090
2200.0	42.248	85093.	146.95	-2.38199E+05	5.6554
2250.0	42.248	87205.	147.90	-2.45570E+05	5.7009
2300.0	42.248	89317.	148.83	-2.52988E+05	5.7454
2350.0	42.248	91430.	149.74	-2.60453E+05	5.7891
2400.0	42.248	93542.	150.63	-2.67962E+05	5.8319
2450.0	42.248	95655.	151.50	-2.75515E+05	5.8739
2500.0	42.248	97767.	152.35	-2.83111E+05	5.9151
2550.0	42.248	99879.	153.19	-2.90750E+05	5.9556
2600.0	42.248	1.01992E+05	154.01	-2.98430E+05	5.9954
2650.0	42.248	1.04104E+05	154.81	-3.06150E+05	6.0344
2700.0	42.248	1.06217E+05	155.60	-3.13911E+05	6.0728
2750.0	42.248	1.08329E+05	156.38	-3.21710E+05	6.1105

Pu<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.856	3.48000E+05	177.16	2.95179E+05	-51.713
300.00	20.856	3.48039E+05	177.29	2.94851E+05	-51.337
350.00	20.999	3.49084E+05	180.52	2.85904E+05	-42.668
400.00	21.351	3.50142E+05	183.34	2.76806E+05	-36.146
450.00	21.878	3.51222E+05	185.88	2.67574E+05	-31.058
500.00	22.562	3.52332E+05	188.22	2.58221E+05	-26.975
550.00	23.421	3.53481E+05	190.41	2.48754E+05	-23.624
600.00	24.380	3.54676E+05	192.49	2.39181E+05	-20.822
650.00	25.399	3.55920E+05	194.48	2.29507E+05	-18.443
700.00	26.453	3.57217E+05	196.40	2.19734E+05	-16.396
750.00	27.524	3.58566E+05	198.27	2.09867E+05	-14.616
800.00	28.599	3.59969E+05	200.08	1.99908E+05	-13.052
850.00	29.670	3.61426E+05	201.84	1.89860E+05	-11.667
900.00	30.730	3.62936E+05	203.57	1.79725E+05	-10.431
950.00	31.774	3.64499E+05	205.26	1.69504E+05	-9.3198
1000.0	32.799	3.66113E+05	206.91	1.59200E+05	-8.3155
1050.0	33.779	3.67777E+05	208.54	1.48813E+05	-7.4029
1100.0	34.770	3.69491E+05	210.13	1.38347E+05	-6.5694
1150.0	35.764	3.71254E+05	211.70	1.27801E+05	-5.8047
1200.0	36.753	3.73067E+05	213.24	1.17177E+05	-5.1005
1250.0	37.732	3.74930E+05	214.76	1.06477E+05	-4.4493
1300.0	38.695	3.76840E+05	216.26	95701.	-3.8452
1350.0	39.639	3.78799E+05	217.74	84851.	-3.2830
1400.0	40.561	3.80804E+05	219.20	73928.	-2.7582
1450.0	41.457	3.82855E+05	220.64	62932.	-2.2670
1500.0	42.326	3.84949E+05	222.06	51864.	-1.8060
1550.0	43.165	3.87087E+05	223.46	40726.	-1.3724
1600.0	43.974	3.89265E+05	224.84	29519.	-0.96367
1650.0	44.750	3.91483E+05	226.21	18243.	-0.57749
1700.0	45.492	3.93740E+05	227.55	6898.4	-0.21196
1750.0	46.200	3.96032E+05	228.88	-4512.6	0.13469
1800.0	46.873	3.98359E+05	230.19	-15990.	0.46399
1850.0	47.510	4.00719E+05	231.49	-27532.	0.77733
1900.0	48.109	4.03109E+05	232.76	-39138.	1.0759
1950.0	48.672	4.05529E+05	234.02	-50808.	1.3609
2000.0	49.196	4.07976E+05	235.26	-62539.	1.6333
2050.0	49.682	4.10448E+05	236.48	-74333.	1.8940
2100.0	50.140	4.12944E+05	237.68	-86187.	2.1437
2150.0	50.573	4.15462E+05	238.87	-98101.	2.3833
2200.0	50.986	4.18001E+05	240.03	-1.10073E+05	2.6134
2250.0	51.379	4.20560E+05	241.18	-1.22104E+05	2.8346
2300.0	51.758	4.23138E+05	242.32	-1.34191E+05	3.0475
2350.0	52.123	4.25735E+05	243.43	-1.46335E+05	3.2526
2400.0	52.477	4.28351E+05	244.54	-1.58535E+05	3.4503
2450.0	52.822	4.30983E+05	245.62	-1.70789E+05	3.6412
2500.0	53.159	4.33633E+05	246.69	-1.83097E+05	3.8255
2550.0	53.490	4.36299E+05	247.75	-1.95458E+05	4.0037
2600.0	53.817	4.38982E+05	248.79	-2.07871E+05	4.1761
2650.0	54.141	4.41680E+05	249.82	-2.20336E+05	4.3430
2700.0	54.462	4.44396E+05	250.83	-2.32853E+05	4.5047
2750.0	54.782	4.47127E+05	251.83	-2.45419E+05	4.6615
2800.0	55.103	4.49874E+05	252.82	-2.58036E+05	4.8136
2850.0	55.424	4.52637E+05	253.80	-2.70702E+05	4.9613
2900.0	55.746	4.55416E+05	254.77	-2.83416E+05	5.1047
2950.0	56.071	4.58212E+05	255.73	-2.96178E+05	5.2442
3000.0	56.399	4.61023E+05	256.67	-3.08988E+05	5.3798

PuBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	104.75	-8.31779E+05	191.21	-8.88788E+05	155.71
300.00	104.81	-8.31585E+05	191.86	-8.89143E+05	154.81
350.00	106.38	-8.26306E+05	208.13	-8.99152E+05	134.19
400.00	107.95	-8.20948E+05	222.44	-9.09923E+05	118.82
450.00	109.52	-8.15511E+05	235.24	-9.21371E+05	106.95
500.00	111.09	-8.09996E+05	246.86	-9.33428E+05	97.512
550.00	112.65	-8.04402E+05	257.52	-9.46041E+05	89.845
600.00	114.22	-7.98731E+05	267.39	-9.59167E+05	83.501
650.00	115.79	-7.92980E+05	276.60	-9.72769E+05	78.171
700.00	117.36	-7.87151E+05	285.24	-9.86817E+05	73.635
750.00	118.93	-7.81244E+05	293.39	-1.00128E+06	69.734
800.00	120.50	-7.75258E+05	301.11	-1.01615E+06	66.346
850.00	122.07	-7.69194E+05	308.47	-1.03139E+06	63.380
900.00	123.64	-7.63051E+05	315.49	-1.04699E+06	60.764
950.00	125.21	-7.56830E+05	322.21	-1.06293E+06	58.443
954.00	125.33	-7.56329E+05	322.74	-1.06422E+06	58.268
954.00	133.89	-6.97753E+05	384.14	-1.06422E+06	58.268
1000.0	133.89	-6.91594E+05	390.45	-1.08204E+06	56.519
1050.0	133.89	-6.84900E+05	396.98	-1.10173E+06	54.807
1100.0	133.89	-6.78206E+05	403.21	-1.12173E+06	53.265
1150.0	133.89	-6.71511E+05	409.16	-1.14204E+06	51.872
1200.0	133.89	-6.64817E+05	414.86	-1.16264E+06	50.607
1250.0	133.89	-6.58122E+05	420.32	-1.18353E+06	49.456
1300.0	133.89	-6.51428E+05	425.57	-1.20467E+06	48.403
1350.0	133.89	-6.44734E+05	430.63	-1.22608E+06	47.439
1400.0	133.89	-6.38039E+05	435.50	-1.24773E+06	46.552
1450.0	133.89	-6.31345E+05	440.19	-1.26963E+06	45.736
1500.0	133.89	-6.24650E+05	444.73	-1.29175E+06	44.982
1550.0	133.89	-6.17956E+05	449.12	-1.31410E+06	44.284
1600.0	133.89	-6.11262E+05	453.37	-1.33666E+06	43.636
1650.0	133.89	-6.04567E+05	457.49	-1.35943E+06	43.035
1700.0	133.89	-5.97873E+05	461.49	-1.38241E+06	42.475

Rb

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	31.107	0.00000E+00	76.776	-22891.	4.0103
300.00	31.253	57.682	76.969	-23033.	4.0103
312.47	32.346	453.99	78.263	-24001.	4.0120
312.47	31.781	2646.4	85.279	-24001.	4.0120
350.00	31.295	3829.5	88.855	-27270.	4.0697
400.00	30.876	5382.9	93.005	-31819.	4.1550
450.00	30.623	6919.8	96.625	-36562.	4.2439
500.00	30.478	8446.9	99.844	-41475.	4.3327
550.00	30.409	9968.9	102.74	-46541.	4.4200
600.00	30.396	11489.	105.39	-51745.	4.5047
650.00	30.426	13009.	107.82	-57076.	4.5866
700.00	30.492	14532.	110.08	-62524.	4.6655
750.00	30.588	16059.	112.19	-68082.	4.7415
800.00	30.710	17591.	114.17	-73741.	4.8147
850.00	30.856	19130.	116.03	-79496.	4.8851
900.00	31.009	20677.	117.80	-85343.	4.9530
950.00	31.266	22234.	119.48	-91275.	5.0185
1000.0	31.528	23804.	121.09	-97290.	5.0818
1050.0	31.821	25387.	122.64	-1.03383E+05	5.1429
1100.0	32.165	26987.	124.13	-1.09553E+05	5.2021
1150.0	32.576	28605.	125.57	-1.15795E+05	5.2594
1200.0	33.067	30246.	126.96	-1.22108E+05	5.3151
1250.0	33.648	31913.	128.32	-1.28491E+05	5.3692
1300.0	34.328	33612.	129.66	-1.34940E+05	5.4218
1350.0	35.113	35348.	130.97	-1.41456E+05	5.4731
1400.0	36.008	37125.	132.26	-1.48037E+05	5.5232
1450.0	37.018	38951.	133.54	-1.54682E+05	5.5721
1500.0	38.148	40829.	134.81	-1.61390E+05	5.6200
1550.0	39.400	42767.	136.08	-1.68163E+05	5.6669
1600.0	40.768	44771.	137.36	-1.74999E+05	5.7130
1650.0	42.301	46847.	138.63	-1.81899E+05	5.7583
1700.0	43.980	49004.	139.92	-1.88862E+05	5.8029
1750.0	45.818	51248.	141.22	-1.95891E+05	5.8469
1800.0	47.825	53588.	142.54	-2.02985E+05	5.8903
1850.0	50.011	56034.	143.88	-2.10145E+05	5.9333
1900.0	52.385	58593.	145.25	-2.17373E+05	5.9759
1950.0	54.954	61275.	146.64	-2.24670E+05	6.0181
2000.0	57.723	64091.	148.06	-2.32038E+05	6.0601

Rb<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.776	80900.	170.09	30187.	-5.2885
300.00	20.777	80938.	170.22	29872.	-5.2010
350.00	20.802	81978.	173.43	21279.	-3.1756
400.00	20.811	83018.	176.20	12536.	-1.6370
450.00	20.813	84059.	178.66	3663.7	-0.42526
500.00	20.810	85100.	180.85	-5324.9	0.55627
550.00	20.805	86140.	182.83	-14418.	1.3692
600.00	20.799	87180.	184.64	-23605.	2.0550
650.00	20.792	88220.	186.31	-32880.	2.6422
700.00	20.786	89259.	187.85	-42234.	3.1514
750.00	20.779	90298.	189.28	-51662.	3.5980
800.00	20.774	91337.	190.62	-61160.	3.9933
850.00	20.769	92376.	191.88	-70723.	4.3460
900.00	20.766	93414.	193.07	-80347.	4.6631
950.00	20.763	94452.	194.19	-90029.	4.9500
1000.0	20.762	95491.	195.26	-99765.	5.2111
1050.0	20.762	96529.	196.27	-1.09554E+05	5.4499
1100.0	20.763	97567.	197.23	-1.19392E+05	5.6693
1150.0	20.765	98605.	198.16	-1.29277E+05	5.8718
1200.0	20.769	99643.	199.04	-1.39207E+05	6.0594
1250.0	20.774	1.00682E+05	199.89	-1.49180E+05	6.2337
1300.0	20.780	1.01721E+05	200.70	-1.59195E+05	6.3964
1350.0	20.788	1.02760E+05	201.49	-1.69250E+05	6.5485
1400.0	20.797	1.03799E+05	202.24	-1.79344E+05	6.6912
1450.0	20.807	1.04840E+05	202.97	-1.89474E+05	6.8254
1500.0	20.819	1.05880E+05	203.68	-1.99641E+05	6.9519
1550.0	20.832	1.06921E+05	204.36	-2.09842E+05	7.0714
1600.0	20.846	1.07963E+05	205.02	-2.20077E+05	7.1846
1650.0	20.862	1.09006E+05	205.67	-2.30344E+05	7.2919
1700.0	20.879	1.10050E+05	206.29	-2.40643E+05	7.3939
1750.0	20.898	1.11094E+05	206.90	-2.50973E+05	7.4909
1800.0	20.918	1.12139E+05	207.48	-2.61332E+05	7.5835
1850.0	20.940	1.13186E+05	208.06	-2.71721E+05	7.6718
1900.0	20.963	1.14233E+05	208.62	-2.82138E+05	7.7563
1950.0	20.987	1.15282E+05	209.16	-2.92582E+05	7.8372
2000.0	21.014	1.16332E+05	209.69	-3.03054E+05	7.9147
2050.0	21.045	1.17384E+05	210.21	-3.13551E+05	7.9892
2100.0	21.086	1.18437E+05	210.72	-3.24075E+05	8.0607
2150.0	21.135	1.19492E+05	211.22	-3.34623E+05	8.1295
2200.0	21.194	1.20551E+05	211.70	-3.45196E+05	8.1958
2250.0	21.262	1.21612E+05	212.18	-3.55793E+05	8.2597
2300.0	21.338	1.22677E+05	212.65	-3.66414E+05	8.3213
2350.0	21.422	1.23746E+05	213.11	-3.77058E+05	8.3808
2400.0	21.515	1.24819E+05	213.56	-3.87725E+05	8.4384
2450.0	21.616	1.25897E+05	214.00	-3.98414E+05	8.4941
2500.0	21.726	1.26981E+05	214.44	-4.09125E+05	8.5480
2550.0	21.843	1.28070E+05	214.87	-4.19858E+05	8.6002
2600.0	21.968	1.29165E+05	215.30	-4.30612E+05	8.6509
2650.0	22.102	1.30267E+05	215.72	-4.41388E+05	8.7001
2700.0	22.243	1.31376E+05	216.13	-4.52184E+05	8.7478
2750.0	22.392	1.32492E+05	216.54	-4.63001E+05	8.7942
2800.0	22.548	1.33615E+05	216.95	-4.73838E+05	8.8393
2850.0	22.713	1.34747E+05	217.35	-4.84696E+05	8.8833
2900.0	22.885	1.35886E+05	217.74	-4.95573E+05	8.9260
2950.0	23.064	1.37035E+05	218.14	-5.06470E+05	8.9677
3000.0	23.251	1.38193E+05	218.53	-5.17387E+05	9.0083

RbCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.807	-2.23323E+05	249.69	-2.97768E+05	52.166
300.00	36.821	-2.23255E+05	249.92	-2.98230E+05	51.925
350.00	37.121	-2.21406E+05	255.62	-3.10872E+05	46.394
400.00	37.324	-2.19544E+05	260.59	-3.23780E+05	42.280
450.00	37.471	-2.17674E+05	264.99	-3.36921E+05	39.108
500.00	37.584	-2.15798E+05	268.95	-3.50271E+05	36.592
550.00	37.675	-2.13916E+05	272.53	-3.63810E+05	34.551
600.00	37.752	-2.12031E+05	275.82	-3.77520E+05	32.865
650.00	37.820	-2.10141E+05	278.84	-3.91387E+05	31.451
700.00	37.881	-2.08249E+05	281.64	-4.05400E+05	30.251
750.00	37.939	-2.06353E+05	284.26	-4.19548E+05	29.219
800.00	37.994	-2.04455E+05	286.71	-4.33823E+05	28.325
850.00	38.047	-2.02554E+05	289.02	-4.48217E+05	27.543
900.00	38.099	-2.00650E+05	291.19	-4.62722E+05	26.855
950.00	38.152	-1.98744E+05	293.25	-4.77334E+05	26.245
1000.0	38.204	-1.96835E+05	295.21	-4.92046E+05	25.701
1050.0	38.257	-1.94924E+05	297.08	-5.06854E+05	25.214
1100.0	38.311	-1.93009E+05	298.86	-5.21752E+05	24.775
1150.0	38.366	-1.91092E+05	300.56	-5.36738E+05	24.379
1200.0	38.422	-1.89173E+05	302.20	-5.51807E+05	24.019
1250.0	38.479	-1.87250E+05	303.77	-5.66957E+05	23.691
1300.0	38.538	-1.85325E+05	305.28	-5.82183E+05	23.392
1350.0	38.598	-1.83396E+05	306.73	-5.97483E+05	23.117
1400.0	38.660	-1.81465E+05	308.14	-6.12855E+05	22.865
1450.0	38.724	-1.79530E+05	309.49	-6.28296E+05	22.633
1500.0	38.789	-1.77593E+05	310.81	-6.43804E+05	22.419
1550.0	38.855	-1.75651E+05	312.08	-6.59376E+05	22.220
1600.0	38.924	-1.73707E+05	313.32	-6.75011E+05	22.036
1650.0	38.994	-1.71759E+05	314.51	-6.90707E+05	21.865
1700.0	39.067	-1.69807E+05	315.68	-7.06462E+05	21.706
1750.0	39.141	-1.67852E+05	316.81	-7.22274E+05	21.558
1800.0	39.216	-1.65893E+05	317.92	-7.38143E+05	21.420
1850.0	39.294	-1.63931E+05	318.99	-7.54065E+05	21.290
1900.0	39.374	-1.61964E+05	320.04	-7.70041E+05	21.169
1950.0	39.455	-1.59993E+05	321.06	-7.86069E+05	21.056
2000.0	39.539	-1.58018E+05	322.06	-8.02147E+05	20.949
2050.0	39.624	-1.56039E+05	323.04	-8.18275E+05	20.849
2100.0	39.711	-1.54056E+05	324.00	-8.34451E+05	20.755
2150.0	39.800	-1.52068E+05	324.93	-8.50675E+05	20.667
2200.0	39.892	-1.50076E+05	325.85	-8.66944E+05	20.583
2250.0	39.985	-1.48079E+05	326.75	-8.83259E+05	20.505
2300.0	40.080	-1.46077E+05	327.63	-8.99619E+05	20.430
2350.0	40.177	-1.44071E+05	328.49	-9.16022E+05	20.360
2400.0	40.275	-1.42060E+05	329.34	-9.32467E+05	20.294
2450.0	40.376	-1.40043E+05	330.17	-9.48955E+05	20.231
2500.0	40.479	-1.38022E+05	330.98	-9.65484E+05	20.172
2550.0	40.584	-1.35995E+05	331.79	-9.82053E+05	20.116
2600.0	40.691	-1.33964E+05	332.58	-9.98662E+05	20.063
2650.0	40.799	-1.31926E+05	333.35	-1.01531E+06	20.012
2700.0	40.910	-1.29884E+05	334.12	-1.03200E+06	19.965
2750.0	41.023	-1.27835E+05	334.87	-1.04872E+06	19.919
2800.0	41.137	-1.25781E+05	335.61	-1.06548E+06	19.876
2850.0	41.254	-1.23722E+05	336.34	-1.08228E+06	19.836
2900.0	41.373	-1.21656E+05	337.06	-1.09912E+06	19.797
2950.0	41.493	-1.19584E+05	337.76	-1.11599E+06	19.760
3000.0	41.616	-1.17506E+05	338.46	-1.13289E+06	19.725

RbBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.185	-1.91511E+05	261.13	-2.69366E+05	47.191
300.00	37.195	-1.91442E+05	261.36	-2.69850E+05	46.984
350.00	37.408	-1.89577E+05	267.11	-2.83065E+05	42.244
400.00	37.553	-1.87703E+05	272.11	-2.96548E+05	38.724
450.00	37.660	-1.85822E+05	276.54	-3.10267E+05	36.014
500.00	37.744	-1.83937E+05	280.52	-3.24195E+05	33.868
550.00	37.814	-1.82048E+05	284.12	-3.38312E+05	32.129
600.00	37.874	-1.80156E+05	287.41	-3.52601E+05	30.696
650.00	37.929	-1.78261E+05	290.44	-3.67049E+05	29.496
700.00	37.980	-1.76363E+05	293.26	-3.81642E+05	28.478
750.00	38.029	-1.74463E+05	295.88	-3.96371E+05	27.605
800.00	38.078	-1.72560E+05	298.33	-4.11227E+05	26.850
850.00	38.125	-1.70655E+05	300.64	-4.26202E+05	26.191
900.00	38.173	-1.68747E+05	302.82	-4.41289E+05	25.611
950.00	38.222	-1.66838E+05	304.89	-4.56483E+05	25.099
1000.0	38.271	-1.64925E+05	306.85	-4.71777E+05	24.642
1050.0	38.322	-1.63010E+05	308.72	-4.87166E+05	24.235
1100.0	38.374	-1.61093E+05	310.50	-5.02647E+05	23.868
1150.0	38.427	-1.59173E+05	312.21	-5.18215E+05	23.537
1200.0	38.482	-1.57250E+05	313.85	-5.33867E+05	23.238
1250.0	38.539	-1.55325E+05	315.42	-5.49599E+05	22.966
1300.0	38.597	-1.53396E+05	316.93	-5.65408E+05	22.718
1350.0	38.658	-1.51465E+05	318.39	-5.81291E+05	22.491
1400.0	38.720	-1.49530E+05	319.80	-5.97246E+05	22.283
1450.0	38.783	-1.47593E+05	321.16	-6.13270E+05	22.092
1500.0	38.849	-1.45652E+05	322.47	-6.29361E+05	21.916
1550.0	38.917	-1.43708E+05	323.75	-6.45517E+05	21.753
1600.0	38.987	-1.41760E+05	324.98	-6.61735E+05	21.603
1650.0	39.058	-1.39809E+05	326.19	-6.78015E+05	21.464
1700.0	39.132	-1.37855E+05	327.35	-6.94353E+05	21.334
1750.0	39.208	-1.35896E+05	328.49	-7.10749E+05	21.214
1800.0	39.286	-1.33934E+05	329.59	-7.27201E+05	21.102
1850.0	39.365	-1.31967E+05	330.67	-7.43708E+05	20.998
1900.0	39.447	-1.29997E+05	331.72	-7.60268E+05	20.901
1950.0	39.531	-1.28023E+05	332.75	-7.76880E+05	20.810
2000.0	39.617	-1.26044E+05	333.75	-7.93542E+05	20.725
2050.0	39.705	-1.24061E+05	334.73	-8.10254E+05	20.645
2100.0	39.795	-1.22073E+05	335.69	-8.27015E+05	20.570
2150.0	39.888	-1.20081E+05	336.62	-8.43823E+05	20.500
2200.0	39.982	-1.18085E+05	337.54	-8.60677E+05	20.435
2250.0	40.079	-1.16083E+05	338.44	-8.77577E+05	20.373
2300.0	40.177	-1.14077E+05	339.32	-8.94521E+05	20.315
2350.0	40.278	-1.12065E+05	340.19	-9.11509E+05	20.260
2400.0	40.381	-1.10049E+05	341.04	-9.28539E+05	20.209
2450.0	40.486	-1.08027E+05	341.87	-9.45612E+05	20.160
2500.0	40.593	-1.06000E+05	342.69	-9.62726E+05	20.115
2550.0	40.702	-1.03968E+05	343.50	-9.79881E+05	20.072
2600.0	40.813	-1.01930E+05	344.29	-9.97076E+05	20.031
2650.0	40.927	-99887.	345.07	-1.01431E+06	19.993
2700.0	41.042	-97837.	345.83	-1.03158E+06	19.957
2750.0	41.160	-95782.	346.59	-1.04889E+06	19.923
2800.0	41.280	-93721.	347.33	-1.06624E+06	19.890
2850.0	41.402	-91654.	348.06	-1.08363E+06	19.860
2900.0	41.526	-89581.	348.78	-1.10105E+06	19.831
2950.0	41.652	-87502.	349.49	-1.11850E+06	19.804
3000.0	41.780	-85416.	350.19	-1.13600E+06	19.779

Rb2CO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	117.60	-1.13260E+06	181.33	-1.18666E+06	207.89
300.00	117.89	-1.13238E+06	182.06	-1.18700E+06	206.67
350.00	125.71	-1.12629E+06	200.82	-1.19658E+06	178.58
400.00	133.53	-1.11981E+06	218.11	-1.20706E+06	157.62
450.00	141.35	-1.11294E+06	234.29	-1.21837E+06	141.42
500.00	149.17	-1.10568E+06	249.59	-1.23047E+06	128.54
550.00	156.99	-1.09802E+06	264.18	-1.24332E+06	118.08
576.00	161.06	-1.09389E+06	271.52	-1.25028E+06	113.38
576.00	152.38	-1.09259E+06	273.78	-1.25028E+06	113.38
600.00	154.03	-1.08891E+06	280.03	-1.25693E+06	109.42
650.00	157.47	-1.08112E+06	292.50	-1.27125E+06	102.16
700.00	160.91	-1.07316E+06	304.29	-1.28617E+06	95.973
750.00	164.36	-1.06503E+06	315.51	-1.30166E+06	90.654
800.00	167.80	-1.05673E+06	326.23	-1.31771E+06	86.035
850.00	171.24	-1.04825E+06	336.50	-1.33428E+06	81.993
900.00	174.69	-1.03960E+06	346.39	-1.35135E+06	78.429
950.00	178.13	-1.03078E+06	355.93	-1.36891E+06	75.266
1000.0	181.57	-1.02179E+06	365.15	-1.38694E+06	72.445
1050.0	185.01	-1.01263E+06	374.09	-1.40542E+06	69.914
1100.0	188.46	-1.00329E+06	382.78	-1.42435E+06	67.635
1146.0	191.62	-9.94548E+05	390.56	-1.44213E+06	65.731
1146.0	205.00	-9.64548E+05	416.74	-1.44213E+06	65.731
1150.0	205.00	-9.63728E+05	417.46	-1.44380E+06	65.578
1200.0	205.00	-9.53478E+05	426.18	-1.46490E+06	63.764
1250.0	205.00	-9.43228E+05	434.55	-1.48641E+06	62.112
1300.0	205.00	-9.32978E+05	442.59	-1.50834E+06	60.604
1350.0	205.00	-9.22728E+05	450.33	-1.53067E+06	59.224
1400.0	205.00	-9.12478E+05	457.78	-1.55337E+06	57.956
1450.0	205.00	-9.02228E+05	464.98	-1.57644E+06	56.788
1500.0	205.00	-8.91978E+05	471.93	-1.59987E+06	55.711
1550.0	205.00	-8.81728E+05	478.65	-1.62363E+06	54.715
1600.0	205.00	-8.71478E+05	485.16	-1.64773E+06	53.791
1650.0	205.00	-8.61228E+05	491.46	-1.67214E+06	52.934
1700.0	205.00	-8.50978E+05	497.58	-1.69687E+06	52.137
1750.0	205.00	-8.40728E+05	503.53	-1.72190E+06	51.395
1800.0	205.00	-8.30478E+05	509.30	-1.74722E+06	50.702
1850.0	205.00	-8.20228E+05	514.92	-1.77283E+06	50.054
1900.0	205.00	-8.09978E+05	520.38	-1.79871E+06	49.449
1950.0	205.00	-7.99728E+05	525.71	-1.82486E+06	48.881
2000.0	205.00	-7.89478E+05	530.90	-1.85128E+06	48.349
2050.0	205.00	-7.79228E+05	535.96	-1.87795E+06	47.850
2100.0	205.00	-7.68978E+05	540.90	-1.90487E+06	47.380
2150.0	205.00	-7.58728E+05	545.73	-1.93204E+06	46.938
2200.0	205.00	-7.48478E+05	550.44	-1.95944E+06	46.522
2250.0	205.00	-7.38228E+05	555.05	-1.98708E+06	46.130
2300.0	205.00	-7.27978E+05	559.55	-2.01495E+06	45.760
2350.0	205.00	-7.17728E+05	563.96	-2.04303E+06	45.410
2400.0	205.00	-7.07478E+05	568.28	-2.07134E+06	45.080
2450.0	205.00	-6.97228E+05	572.50	-2.09986E+06	44.768
2500.0	205.00	-6.86978E+05	576.64	-2.12859E+06	44.473
2550.0	205.00	-6.76728E+05	580.70	-2.15752E+06	44.194
2600.0	205.00	-6.66478E+05	584.68	-2.18666E+06	43.929
2650.0	205.00	-6.56228E+05	588.59	-2.21599E+06	43.679
2700.0	205.00	-6.45978E+05	592.42	-2.24552E+06	43.441
2750.0	205.00	-6.35728E+05	596.18	-2.27523E+06	43.216
2800.0	205.00	-6.25478E+05	599.88	-2.30513E+06	43.002
2850.0	205.00	-6.15228E+05	603.51	-2.33522E+06	42.799
2900.0	205.00	-6.04978E+05	607.07	-2.36548E+06	42.606
2950.0	205.00	-5.94728E+05	610.58	-2.39592E+06	42.423
3000.0	205.00	-5.84478E+05	614.02	-2.42654E+06	42.249

RbBO2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.244	-6.78978E+05	308.29	-7.70896E+05	135.05
300.00	59.355	-6.78868E+05	308.66	-7.71467E+05	134.32
350.00	62.018	-6.75831E+05	318.02	-7.87138E+05	117.47
400.00	64.182	-6.72675E+05	326.45	-8.03253E+05	104.89
450.00	66.022	-6.69419E+05	334.11	-8.19770E+05	95.154
500.00	67.630	-6.66076E+05	341.16	-8.36654E+05	87.402
550.00	69.059	-6.62658E+05	347.67	-8.53877E+05	81.092
600.00	70.339	-6.59173E+05	353.73	-8.71414E+05	75.861
650.00	71.490	-6.55627E+05	359.41	-8.89244E+05	71.459
700.00	72.526	-6.52026E+05	364.75	-9.07349E+05	67.706
750.00	73.456	-6.48376E+05	369.78	-9.25714E+05	64.471
800.00	74.284	-6.44682E+05	374.55	-9.44323E+05	61.656
850.00	75.017	-6.40949E+05	379.08	-9.63165E+05	59.187
900.00	75.653	-6.37182E+05	383.38	-9.82227E+05	57.006
950.00	76.298	-6.33383E+05	387.49	-1.00150E+06	55.065
1000.0	76.855	-6.29553E+05	391.42	-1.02097E+06	53.329
1050.0	77.339	-6.25698E+05	395.18	-1.04064E+06	51.768
1100.0	77.765	-6.21821E+05	398.79	-1.06049E+06	50.357
1150.0	78.141	-6.17923E+05	402.26	-1.08052E+06	49.077
1200.0	78.475	-6.14007E+05	405.59	-1.10071E+06	47.912
1250.0	78.775	-6.10076E+05	408.80	-1.12107E+06	46.846
1300.0	79.045	-6.06130E+05	411.89	-1.14159E+06	45.869
1350.0	79.289	-6.02172E+05	414.88	-1.16226E+06	44.969
1400.0	79.511	-5.98202E+05	417.77	-1.18308E+06	44.140
1450.0	79.714	-5.94221E+05	420.56	-1.20404E+06	43.373
1500.0	79.899	-5.90231E+05	423.27	-1.22513E+06	42.662
1550.0	80.071	-5.86231E+05	425.89	-1.24636E+06	42.001
1600.0	80.229	-5.82224E+05	428.43	-1.26772E+06	41.386
1650.0	80.375	-5.78209E+05	430.91	-1.28920E+06	40.812
1700.0	80.511	-5.74186E+05	433.31	-1.31081E+06	40.275
1750.0	80.638	-5.70158E+05	435.64	-1.33253E+06	39.773
1800.0	80.756	-5.66123E+05	437.92	-1.35437E+06	39.302
1850.0	80.867	-5.62082E+05	440.13	-1.37632E+06	38.859
1900.0	80.972	-5.58036E+05	442.29	-1.39838E+06	38.443
1950.0	81.070	-5.53985E+05	444.39	-1.42055E+06	38.051
2000.0	81.162	-5.49929E+05	446.45	-1.44282E+06	37.682
2050.0	81.249	-5.45869E+05	448.45	-1.46520E+06	37.333
2100.0	81.331	-5.41804E+05	450.41	-1.48767E+06	37.003
2150.0	81.409	-5.37736E+05	452.33	-1.51024E+06	36.691
2200.0	81.483	-5.33664E+05	454.20	-1.53290E+06	36.395
2250.0	81.553	-5.29588E+05	456.03	-1.55565E+06	36.114
2300.0	81.620	-5.25508E+05	457.82	-1.57850E+06	35.848
2350.0	81.683	-5.21426E+05	459.58	-1.60144E+06	35.595
2400.0	81.743	-5.17340E+05	461.30	-1.62446E+06	35.355
2450.0	81.800	-5.13252E+05	462.99	-1.64757E+06	35.126
2500.0	81.855	-5.09160E+05	464.64	-1.67076E+06	34.908
2550.0	81.906	-5.05066E+05	466.26	-1.69403E+06	34.700
2600.0	81.956	-5.00970E+05	467.85	-1.71738E+06	34.502
2650.0	82.003	-4.96871E+05	469.41	-1.74081E+06	34.313
2700.0	82.048	-4.92769E+05	470.95	-1.76432E+06	34.132
2750.0	82.091	-4.88666E+05	472.45	-1.78791E+06	33.959
2800.0	82.132	-4.84560E+05	473.93	-1.81157E+06	33.794
2850.0	82.171	-4.80453E+05	475.39	-1.83530E+06	33.636
2900.0	82.208	-4.76343E+05	476.81	-1.85911E+06	33.485
2950.0	82.243	-4.72232E+05	478.22	-1.88298E+06	33.340
3000.0	82.277	-4.68119E+05	479.60	-1.90693E+06	33.202

Re

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.016	0.00000E+00	36.482	-10877.	1.9056
300.00	25.033	46.296	36.637	-10945.	1.9056
350.00	25.443	1308.6	40.528	-12876.	1.9216
400.00	25.779	2589.4	43.948	-14990.	1.9574
450.00	26.070	3885.8	47.001	-17265.	2.0040
500.00	26.331	5195.9	49.762	-19685.	2.0564
550.00	26.569	6518.5	52.283	-22237.	2.1118
600.00	26.791	7852.6	54.604	-24910.	2.1685
650.00	26.999	9197.4	56.757	-27695.	2.2255
700.00	27.196	10552.	58.765	-30583.	2.2821
750.00	27.383	11917.	60.648	-33569.	2.3379
800.00	27.561	13290.	62.421	-36646.	2.3927
850.00	27.731	14673.	64.097	-39809.	2.4463
900.00	27.893	16063.	65.686	-43054.	2.4987
950.00	28.048	17462.	67.199	-46377.	2.5499
1000.0	28.195	18868.	68.641	-49773.	2.5998
1050.0	28.336	20281.	70.020	-53240.	2.6485
1100.0	28.471	21701.	71.341	-56774.	2.6959
1150.0	28.599	23128.	72.610	-60373.	2.7422
1200.0	28.720	24561.	73.830	-64034.	2.7873
1250.0	28.852	26001.	75.005	-67755.	2.8313
1300.0	28.976	27446.	76.139	-71534.	2.8742
1350.0	29.094	28898.	77.235	-75369.	2.9161
1400.0	29.208	30356.	78.295	-79257.	2.9570
1450.0	29.320	31819.	79.322	-83197.	2.9970
1500.0	29.430	33288.	80.318	-87189.	3.0361
1550.0	29.541	34762.	81.284	-91229.	3.0743
1600.0	29.654	36242.	82.224	-95317.	3.1117
1650.0	29.768	37727.	83.138	-99451.	3.1483
1700.0	29.885	39219.	84.029	-1.03630E+05	3.1841
1750.0	30.006	40716.	84.897	-1.07853E+05	3.2192
1800.0	30.131	42219.	85.744	-1.12119E+05	3.2535
1850.0	30.260	43729.	86.571	-1.16427E+05	3.2872
1900.0	30.395	45246.	87.380	-1.20776E+05	3.3203
1950.0	30.534	46769.	88.171	-1.25165E+05	3.3527
2000.0	30.679	48299.	88.946	-1.29593E+05	3.3845
2050.0	30.830	49837.	89.705	-1.34059E+05	3.4158
2100.0	30.987	51382.	90.450	-1.38563E+05	3.4465
2150.0	31.151	52936.	91.181	-1.43104E+05	3.4767
2200.0	31.321	54497.	91.899	-1.47681E+05	3.5063
2250.0	31.498	56068.	92.605	-1.52294E+05	3.5355
2300.0	31.681	57647.	93.299	-1.56941E+05	3.5642
2350.0	31.872	59236.	93.983	-1.61624E+05	3.5924
2400.0	32.069	60835.	94.656	-1.66340E+05	3.6202
2450.0	32.285	62443.	95.319	-1.71089E+05	3.6476
2500.0	32.510	64063.	95.974	-1.75871E+05	3.6745
2550.0	32.745	65695.	96.620	-1.80686E+05	3.7011
2600.0	32.991	67338.	97.258	-1.85533E+05	3.7273
2650.0	33.249	68994.	97.889	-1.90412E+05	3.7531
2700.0	33.519	70663.	98.513	-1.95322E+05	3.7786
2750.0	33.803	72346.	99.131	-2.00263E+05	3.8038
2800.0	34.101	74044.	99.742	-2.05235E+05	3.8286
2850.0	34.413	75756.	100.35	-2.10237E+05	3.8531
2900.0	34.741	77485.	100.95	-2.15270E+05	3.8773
2950.0	35.086	79231.	101.55	-2.20332E+05	3.9012
3000.0	35.446	80994.	102.14	-2.25424E+05	3.9249

ReBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	95.721	-1.64431E+05	184.10	-2.19319E+05	38.423
300.00	95.814	-1.64254E+05	184.69	-2.19661E+05	38.245
350.00	98.324	-1.59401E+05	199.65	-2.29277E+05	34.217
400.00	100.83	-1.54422E+05	212.94	-2.39598E+05	31.287
450.00	103.34	-1.49317E+05	224.96	-2.50550E+05	29.082
500.00	105.86	-1.44087E+05	235.98	-2.62077E+05	27.378
550.00	108.37	-1.38732E+05	246.19	-2.74134E+05	26.034
600.00	110.88	-1.33251E+05	255.72	-2.86685E+05	24.957
650.00	113.39	-1.27644E+05	264.70	-2.99697E+05	24.083
700.00	115.90	-1.21912E+05	273.19	-3.13146E+05	23.367
750.00	118.41	-1.16054E+05	281.27	-3.27010E+05	22.774
800.00	120.92	-1.10071E+05	289.00	-3.41268E+05	22.282

Rh

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.893	0.00000E+00	31.556	-9408.4	1.6483
300.00	24.922	46.079	31.710	-9466.9	1.6483
350.00	25.626	1310.4	35.607	-11152.	1.6643
400.00	26.220	2606.9	39.068	-13020.	1.7002
450.00	26.752	3931.4	42.188	-15053.	1.7473
500.00	27.247	5281.5	45.032	-17235.	1.8004
550.00	27.720	6655.8	47.651	-19553.	1.8569
600.00	28.180	8053.3	50.083	-21997.	1.9149
650.00	28.631	9473.6	52.357	-24558.	1.9735
700.00	29.078	10916.	54.495	-27230.	2.0319
750.00	29.523	12381.	56.516	-30006.	2.0897
800.00	29.967	13869.	58.436	-32880.	2.1468
850.00	30.413	15378.	60.266	-35848.	2.2029
900.00	30.860	16910.	62.017	-38905.	2.2579
950.00	31.310	18464.	63.697	-42048.	2.3119
1000.0	31.763	20041.	65.315	-45274.	2.3648
1050.0	32.219	21640.	66.876	-48579.	2.4166
1100.0	32.679	23263.	68.385	-51961.	2.4673
1150.0	33.142	24908.	69.848	-55417.	2.5170
1200.0	33.605	26577.	71.268	-58945.	2.5657
1250.0	34.115	28270.	72.650	-62543.	2.6135
1300.0	34.629	29989.	73.998	-66209.	2.6602
1350.0	35.153	31733.	75.315	-69942.	2.7062
1400.0	35.693	33504.	76.603	-73740.	2.7512
1450.0	36.251	35303.	77.865	-77602.	2.7955
1500.0	36.833	37130.	79.104	-81526.	2.8389
1550.0	37.439	38987.	80.322	-85512.	2.8817
1600.0	38.074	40874.	81.520	-89558.	2.9237
1650.0	38.739	42794.	82.702	-93664.	2.9651
1700.0	39.435	44749.	83.869	-97828.	3.0058
1750.0	40.165	46739.	85.022	-1.02050E+05	3.0460
1800.0	40.930	48766.	86.164	-1.06330E+05	3.0855
1850.0	41.730	50832.	87.297	-1.10667E+05	3.1246
1900.0	42.567	52939.	88.421	-1.15060E+05	3.1631
1950.0	43.442	55089.	89.537	-1.19509E+05	3.2012
2000.0	44.355	57284.	90.649	-1.24013E+05	3.2388
2050.0	45.308	59526.	91.756	-1.28573E+05	3.2760
2100.0	46.300	61816.	92.859	-1.33189E+05	3.3128
2150.0	47.332	64156.	93.961	-1.37859E+05	3.3492
2200.0	48.405	66550.	95.061	-1.42585E+05	3.3853
2237.0	49.225	68356.	95.875	-1.46117E+05	3.4118
2237.0	50.585	94949.	107.76	-1.46117E+05	3.4118
2250.0	50.585	95607.	108.06	-1.47520E+05	3.4246
2300.0	50.585	98136.	109.17	-1.52951E+05	3.4735
2350.0	50.585	1.00665E+05	110.26	-1.58436E+05	3.5216
2400.0	50.585	1.03194E+05	111.32	-1.63976E+05	3.5688
2450.0	50.585	1.05724E+05	112.36	-1.69568E+05	3.6151
2500.0	50.585	1.08253E+05	113.39	-1.75212E+05	3.6608

RhBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	101.16	-2.10874E+05	188.28	-2.67009E+05	46.778
300.00	101.21	-2.10686E+05	188.91	-2.67358E+05	46.550
350.00	102.53	-2.05593E+05	204.61	-2.77205E+05	41.370
400.00	103.85	-2.00434E+05	218.38	-2.87787E+05	37.580
450.00	105.16	-1.95208E+05	230.69	-2.99019E+05	34.708
500.00	106.48	-1.89917E+05	241.84	-3.10837E+05	32.472
550.00	107.80	-1.84560E+05	252.05	-3.23188E+05	30.693
600.00	109.12	-1.79137E+05	261.49	-3.36029E+05	29.253
650.00	110.44	-1.73648E+05	270.27	-3.49325E+05	28.071
700.00	111.75	-1.68093E+05	278.51	-3.63047E+05	27.090
750.00	113.07	-1.62473E+05	286.26	-3.77168E+05	26.268
800.00	114.39	-1.56786E+05	293.60	-3.91666E+05	25.573
850.00	115.71	-1.51034E+05	300.57	-4.06522E+05	24.981
900.00	117.03	-1.45215E+05	307.23	-4.21718E+05	24.475
950.00	118.34	-1.39331E+05	313.59	-4.37240E+05	24.041
1000.0	119.66	-1.33381E+05	319.69	-4.53073E+05	23.665

Ru

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	23.970	0.00000E+00	28.614	-8531.3	1.4946
300.00	23.999	44.372	28.762	-8584.3	1.4946
350.00	24.706	1262.7	32.517	-10118.	1.5100
400.00	25.290	2513.0	35.855	-11829.	1.5447
450.00	25.800	3790.4	38.864	-13698.	1.5900
500.00	26.262	5092.1	41.606	-15711.	1.6413
550.00	26.691	6416.1	44.130	-17855.	1.6957
600.00	27.096	7760.9	46.470	-20121.	1.7516
650.00	27.483	9125.4	48.654	-22500.	1.8081
700.00	27.854	10509.	50.704	-24984.	1.8643
750.00	28.213	11911.	52.638	-27568.	1.9200
800.00	28.561	13330.	54.470	-30246.	1.9748
850.00	28.900	14767.	56.212	-33014.	2.0287
900.00	29.231	16220.	57.873	-35866.	2.0816
950.00	29.553	17690.	59.463	-38800.	2.1333
1000.0	29.868	19175.	60.986	-41811.	2.1839
1050.0	30.176	20676.	62.451	-44898.	2.2335
1100.0	30.478	22193.	63.862	-48056.	2.2819
1150.0	30.773	23724.	65.223	-51283.	2.3293
1200.0	31.061	25270.	66.539	-54577.	2.3756
1250.0	31.344	26830.	67.813	-57936.	2.4210
1300.0	31.646	28405.	69.048	-61358.	2.4653
1350.0	31.967	29995.	70.248	-64840.	2.5088
1400.0	32.305	31602.	71.417	-68382.	2.5513
1450.0	32.664	33226.	72.557	-71982.	2.5930
1500.0	33.048	34868.	73.670	-75637.	2.6339
1550.0	33.459	36531.	74.761	-79348.	2.6739
1600.0	33.901	38215.	75.830	-83113.	2.7133
1650.0	34.374	39921.	76.880	-86931.	2.7519
1700.0	34.882	41653.	77.914	-90801.	2.7899
1750.0	35.424	43410.	78.933	-94722.	2.8272
1800.0	36.004	45196.	79.939	-98694.	2.8639
1850.0	36.621	47011.	80.933	-1.02716E+05	2.9001
1900.0	37.277	48859.	81.919	-1.06787E+05	2.9357
1950.0	37.972	50740.	82.896	-1.10907E+05	2.9708
2000.0	38.708	52656.	83.866	-1.15077E+05	3.0054
2050.0	39.485	54611.	84.832	-1.19294E+05	3.0396
2100.0	40.303	56606.	85.793	-1.23560E+05	3.0733
2150.0	41.164	58642.	86.751	-1.27873E+05	3.1066
2200.0	42.067	60723.	87.708	-1.32235E+05	3.1396
2250.0	43.013	62850.	88.664	-1.36644E+05	3.1722
2300.0	44.003	65025.	89.620	-1.41101E+05	3.2044
2350.0	45.036	67251.	90.577	-1.45606E+05	3.2364
2400.0	46.113	69529.	91.537	-1.50159E+05	3.2680
2450.0	47.235	71863.	92.499	-1.54760E+05	3.2994
2500.0	48.401	74253.	93.465	-1.59409E+05	3.3306
2550.0	49.612	76703.	94.435	-1.64106E+05	3.3615
2600.0	50.867	79215.	95.411	-1.68852E+05	3.3922
2607.0	51.047	79572.	95.548	-1.69521E+05	3.3965
2607.0	51.882	1.18161E+05	110.35	-1.69521E+05	3.3965
2650.0	51.882	1.20392E+05	111.20	-1.74284E+05	3.4353
2700.0	51.882	1.22986E+05	112.17	-1.79868E+05	3.4797
2750.0	51.882	1.25580E+05	113.12	-1.85501E+05	3.5234
2800.0	51.882	1.28174E+05	114.06	-1.91180E+05	3.5664
2850.0	51.882	1.30768E+05	114.97	-1.96906E+05	3.6088
2900.0	51.882	1.33362E+05	115.88	-2.02677E+05	3.6505
2950.0	51.882	1.35956E+05	116.76	-2.08493E+05	3.6916
3000.0	51.882	1.38550E+05	117.63	-2.14353E+05	3.7321

S

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	22.690	0.00000E+00	32.070	-9561.7	1.6751
300.00	22.737	42.020	32.211	-9621.1	1.6751
350.00	23.880	1208.5	35.804	-11323.	1.6898
368.30	24.237	1648.8	37.031	-11990.	1.7004
368.30	24.773	2049.8	38.119	-11990.	1.7004
388.36	25.180	2550.8	39.444	-12768.	1.7172
388.36	31.702	4271.8	43.875	-12768.	1.7172
400.00	32.502	4643.1	44.817	-13284.	1.7346
450.00	44.129	6717.6	49.685	-15641.	1.8155
500.00	38.026	8738.1	53.948	-18236.	1.9050
550.00	36.188	10590.	57.480	-21024.	1.9966
600.00	35.000	12368.	60.574	-23977.	2.0873
650.00	34.195	14096.	63.342	-27076.	2.1758
700.00	33.600	15791.	65.853	-30307.	2.2614
750.00	32.989	17454.	68.149	-33657.	2.3441
800.00	32.600	19093.	70.265	-37118.	2.4235
850.00	32.355	20717.	72.233	-40681.	2.4999
900.00	32.200	22330.	74.078	-44340.	2.5733
950.00	32.072	23937.	75.815	-48087.	2.6440
1000.0	32.008	25538.	77.458	-51920.	2.7119
1050.0	31.985	27138.	79.019	-55832.	2.7774
1100.0	31.986	28737.	80.507	-59820.	2.8406
1150.0	31.998	30337.	81.929	-63881.	2.9015
1200.0	32.010	31937.	83.291	-68012.	2.9604
1250.0	32.013	33538.	84.598	-72210.	3.0174
1300.0	32.000	35138.	85.853	-76471.	3.0726

S<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	23.683	2.77180E+05	167.83	2.27142E+05	-39.793
300.00	23.674	2.77224E+05	167.97	2.26832E+05	-39.494
350.00	23.426	2.78401E+05	171.60	2.18340E+05	-32.585
400.00	23.187	2.79567E+05	174.72	2.09680E+05	-27.381
450.00	22.961	2.80720E+05	177.43	2.00875E+05	-23.316
500.00	22.749	2.81863E+05	179.84	1.91942E+05	-20.052
550.00	22.552	2.82995E+05	182.00	1.82895E+05	-17.369
600.00	22.369	2.84118E+05	183.96	1.73745E+05	-15.125
650.00	22.203	2.85233E+05	185.74	1.64502E+05	-13.219
700.00	22.052	2.86339E+05	187.38	1.55173E+05	-11.579
750.00	21.918	2.87438E+05	188.90	1.45766E+05	-10.152
800.00	21.799	2.88531E+05	190.31	1.36286E+05	-8.8983
850.00	21.697	2.89618E+05	191.63	1.26737E+05	-7.7881
900.00	21.611	2.90701E+05	192.86	1.17124E+05	-6.7975
950.00	21.542	2.91780E+05	194.03	1.07452E+05	-5.9080
1000.0	21.490	2.92855E+05	195.13	97722.	-5.1044
1050.0	21.414	2.93928E+05	196.18	87939.	-4.3746
1100.0	21.353	2.94997E+05	197.17	78105.	-3.7088
1150.0	21.303	2.96063E+05	198.12	68223.	-3.0987
1200.0	21.264	2.97128E+05	199.03	58294.	-2.5374
1250.0	21.234	2.98190E+05	199.90	48321.	-2.0192
1300.0	21.211	2.99251E+05	200.73	38305.	-1.5391
1350.0	21.194	3.00311E+05	201.53	28248.	-1.0930
1400.0	21.183	3.01371E+05	202.30	18153.	-0.67726
1450.0	21.177	3.02430E+05	203.04	8019.0	-0.28887
1500.0	21.175	3.03488E+05	203.76	-2151.1	7.4E-02
1550.0	21.177	3.04547E+05	204.45	-12357.	0.41640
1600.0	21.182	3.05606E+05	205.13	-22596.	0.73767
1650.0	21.190	3.06665E+05	205.78	-32869.	1.0405
1700.0	21.200	3.07725E+05	206.41	-43174.	1.3265
1750.0	21.213	3.08785E+05	207.03	-53510.	1.5971
1800.0	21.229	3.09846E+05	207.62	-63876.	1.8536
1850.0	21.246	3.10908E+05	208.21	-74272.	2.0970
1900.0	21.265	3.11971E+05	208.77	-84696.	2.3284
1950.0	21.285	3.13035E+05	209.32	-95149.	2.5487
2000.0	21.308	3.14100E+05	209.86	-1.05629E+05	2.7587
2050.0	21.331	3.15166E+05	210.39	-1.16135E+05	2.9591
2100.0	21.356	3.16233E+05	210.90	-1.26667E+05	3.1506
2150.0	21.383	3.17301E+05	211.41	-1.37225E+05	3.3338
2200.0	21.410	3.18371E+05	211.90	-1.47808E+05	3.5093
2250.0	21.439	3.19442E+05	212.38	-1.58415E+05	3.6776
2300.0	21.468	3.20515E+05	212.85	-1.69046E+05	3.8391
2350.0	21.499	3.21589E+05	213.31	-1.79700E+05	3.9942
2400.0	21.530	3.22665E+05	213.77	-1.90377E+05	4.1433
2450.0	21.562	3.23742E+05	214.21	-2.01077E+05	4.2869
2500.0	21.595	3.24821E+05	214.65	-2.11798E+05	4.4252
2550.0	21.629	3.25902E+05	215.08	-2.22541E+05	4.5585
2600.0	21.664	3.26984E+05	215.50	-2.33306E+05	4.6871
2650.0	21.699	3.28068E+05	215.91	-2.44091E+05	4.8112
2700.0	21.735	3.29154E+05	216.31	-2.54896E+05	4.9311
2750.0	21.772	3.30242E+05	216.71	-2.65722E+05	5.0471
2800.0	21.810	3.31331E+05	217.11	-2.76568E+05	5.1593
2850.0	21.848	3.32423E+05	217.49	-2.87433E+05	5.2679
2900.0	21.886	3.33516E+05	217.87	-2.98317E+05	5.3731
2950.0	21.926	3.34611E+05	218.25	-3.09220E+05	5.4751
3000.0	21.965	3.35709E+05	218.62	-3.20142E+05	5.5740

S2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	32.491	1.28600E+05	228.16	60573.	-10.612
300.00	32.534	1.28660E+05	228.37	60151.	-10.473
350.00	33.489	1.30312E+05	233.46	48602.	-7.2533
400.00	34.172	1.32005E+05	237.98	36814.	-4.8074
450.00	34.694	1.33727E+05	242.03	24813.	-2.8801
500.00	35.115	1.35472E+05	245.71	12618.	-1.3181
550.00	35.468	1.37237E+05	249.07	246.88	-2.3E-02
600.00	35.772	1.39018E+05	252.17	-12285.	1.0695
650.00	36.041	1.40814E+05	255.05	-24967.	2.0063
700.00	36.282	1.42622E+05	257.73	-37787.	2.8196
750.00	36.502	1.44442E+05	260.24	-50736.	3.5335
800.00	36.703	1.46272E+05	262.60	-63808.	4.1661
850.00	36.890	1.48112E+05	264.83	-76994.	4.7314
900.00	37.064	1.49961E+05	266.94	-90289.	5.2401
950.00	37.226	1.51818E+05	268.95	-1.03687E+05	5.7010
1000.0	37.376	1.53683E+05	270.87	-1.17183E+05	6.1208
1050.0	37.564	1.55557E+05	272.69	-1.30772E+05	6.5054
1100.0	37.745	1.57439E+05	274.45	-1.44451E+05	6.8592
1150.0	37.919	1.59331E+05	276.13	-1.58215E+05	7.1862
1200.0	38.088	1.61231E+05	277.74	-1.72063E+05	7.4895
1250.0	38.251	1.63140E+05	279.30	-1.85989E+05	7.7719
1300.0	38.409	1.65056E+05	280.81	-1.99992E+05	8.0356
1350.0	38.563	1.66980E+05	282.26	-2.14069E+05	8.2826
1400.0	38.712	1.68912E+05	283.66	-2.28217E+05	8.5147
1450.0	38.858	1.70852E+05	285.02	-2.42434E+05	8.7332
1500.0	38.999	1.72798E+05	286.34	-2.56719E+05	8.9395
1550.0	39.136	1.74751E+05	287.63	-2.71068E+05	9.1347
1600.0	39.270	1.76712E+05	288.87	-2.85481E+05	9.3198
1650.0	39.401	1.78678E+05	290.08	-2.99955E+05	9.4955
1700.0	39.528	1.80652E+05	291.26	-3.14488E+05	9.6628
1750.0	39.651	1.82631E+05	292.41	-3.29080E+05	9.8223
1800.0	39.771	1.84617E+05	293.53	-3.43728E+05	9.9745
1850.0	39.888	1.86608E+05	294.62	-3.58432E+05	10.120
1900.0	40.002	1.88605E+05	295.68	-3.73190E+05	10.259
1950.0	40.112	1.90608E+05	296.72	-3.88000E+05	10.393
2000.0	40.220	1.92617E+05	297.74	-4.02861E+05	10.521
2050.0	40.324	1.94630E+05	298.73	-4.17773E+05	10.645
2100.0	40.426	1.96649E+05	299.71	-4.32734E+05	10.763
2150.0	40.524	1.98673E+05	300.66	-4.47744E+05	10.878
2200.0	40.619	2.00701E+05	301.59	-4.62800E+05	10.988
2250.0	40.711	2.02735E+05	302.51	-4.77902E+05	11.094
2300.0	40.801	2.04772E+05	303.40	-4.93050E+05	11.197
2350.0	40.887	2.06815E+05	304.28	-5.08242E+05	11.297
2400.0	40.971	2.08861E+05	305.14	-5.23478E+05	11.393
2450.0	41.051	2.10912E+05	305.99	-5.38756E+05	11.486
2500.0	41.129	2.12966E+05	306.82	-5.54076E+05	11.576
2550.0	41.204	2.15024E+05	307.63	-5.69438E+05	11.664
2600.0	41.276	2.17086E+05	308.43	-5.84839E+05	11.749
2650.0	41.345	2.19152E+05	309.22	-6.00281E+05	11.832
2700.0	41.411	2.21221E+05	309.99	-6.15761E+05	11.912
2750.0	41.475	2.23293E+05	310.75	-6.31280E+05	11.990
2800.0	41.535	2.25368E+05	311.50	-6.46836E+05	12.067
2850.0	41.593	2.27447E+05	312.24	-6.62430E+05	12.141
2900.0	41.648	2.29528E+05	312.96	-6.78060E+05	12.213
2950.0	41.700	2.31611E+05	313.67	-6.93726E+05	12.283
3000.0	41.749	2.33697E+05	314.37	-7.09427E+05	12.352

S3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	48.945	1.44738E+05	276.29	62362.	-10.925
300.00	49.034	1.44829E+05	276.59	61851.	-10.769
350.00	50.970	1.47332E+05	284.31	47825.	-7.1373
400.00	52.313	1.49916E+05	291.20	33434.	-4.3659
450.00	53.303	1.52557E+05	297.43	18716.	-2.1724
500.00	54.066	1.55242E+05	303.08	3700.8	-0.38661
550.00	54.674	1.57961E+05	308.27	-11585.	1.1002
600.00	55.170	1.60708E+05	313.05	-27119.	2.3609
650.00	55.581	1.63477E+05	317.48	-42884.	3.4461
700.00	55.924	1.66265E+05	321.61	-58862.	4.3922
750.00	56.213	1.69069E+05	325.48	-75040.	5.2261
800.00	56.456	1.71885E+05	329.11	-91406.	5.9680
850.00	56.657	1.74713E+05	332.54	-1.07948E+05	6.6335
900.00	56.823	1.77551E+05	335.79	-1.24657E+05	7.2347
950.00	56.956	1.80395E+05	338.86	-1.41524E+05	7.7813
1000.0	57.058	1.83246E+05	341.79	-1.58541E+05	8.2811
1050.0	57.162	1.86101E+05	344.57	-1.75700E+05	8.7404
1100.0	57.253	1.88962E+05	347.23	-1.92996E+05	9.1644
1150.0	57.332	1.91826E+05	349.78	-2.10422E+05	9.5574
1200.0	57.402	1.94695E+05	352.22	-2.27972E+05	9.9231
1250.0	57.463	1.97566E+05	354.57	-2.45642E+05	10.265
1300.0	57.518	2.00441E+05	356.82	-2.63427E+05	10.584
1350.0	57.566	2.03318E+05	358.99	-2.81323E+05	10.885
1400.0	57.610	2.06198E+05	361.09	-2.99326E+05	11.168
1450.0	57.649	2.09079E+05	363.11	-3.17431E+05	11.435
1500.0	57.684	2.11962E+05	365.07	-3.35635E+05	11.688
1550.0	57.716	2.14847E+05	366.96	-3.53936E+05	11.927
1600.0	57.745	2.17734E+05	368.79	-3.72330E+05	12.155
1650.0	57.772	2.20622E+05	370.57	-3.90814E+05	12.372
1700.0	57.796	2.23511E+05	372.29	-4.09386E+05	12.579
1750.0	57.819	2.26401E+05	373.97	-4.28043E+05	12.776
1800.0	57.839	2.29293E+05	375.60	-4.46782E+05	12.965
1850.0	57.858	2.32185E+05	377.18	-4.65602E+05	13.146
1900.0	57.875	2.35079E+05	378.73	-4.84500E+05	13.319
1950.0	57.891	2.37973E+05	380.23	-5.03474E+05	13.486
2000.0	57.906	2.40868E+05	381.69	-5.22522E+05	13.647
2050.0	57.920	2.43763E+05	383.12	-5.41642E+05	13.801
2100.0	57.933	2.46660E+05	384.52	-5.60834E+05	13.950
2150.0	57.945	2.49557E+05	385.88	-5.80094E+05	14.093
2200.0	57.957	2.52454E+05	387.22	-5.99422E+05	14.232
2250.0	57.967	2.55352E+05	388.52	-6.18815E+05	14.366
2300.0	57.977	2.58251E+05	389.79	-6.38273E+05	14.495
2350.0	57.986	2.61150E+05	391.04	-6.57794E+05	14.621
2400.0	57.995	2.64050E+05	392.26	-6.77377E+05	14.742
2450.0	58.003	2.66950E+05	393.46	-6.97020E+05	14.860
2500.0	58.011	2.69850E+05	394.63	-7.16722E+05	14.975
2550.0	58.018	2.72751E+05	395.78	-7.36482E+05	15.086
2600.0	58.025	2.75652E+05	396.90	-7.56299E+05	15.194
2650.0	58.032	2.78553E+05	398.01	-7.76172E+05	15.299
2700.0	58.038	2.81455E+05	399.09	-7.96100E+05	15.401
2750.0	58.044	2.84357E+05	400.16	-8.16081E+05	15.501
2800.0	58.049	2.87259E+05	401.21	-8.36116E+05	15.598
2850.0	58.055	2.90162E+05	402.23	-8.56202E+05	15.692
2900.0	58.060	2.93065E+05	403.24	-8.76339E+05	15.784
2950.0	58.064	2.95968E+05	404.24	-8.96526E+05	15.874
3000.0	58.069	2.98871E+05	405.21	-9.16762E+05	15.962

S4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	65.918	1.35632E+05	293.56	48108.	-8.4281
300.00	66.081	1.35754E+05	293.97	47565.	-8.2815
350.00	69.677	1.39154E+05	304.44	32600.	-4.8652
400.00	72.184	1.42704E+05	313.92	17137.	-2.2378
450.00	74.038	1.46362E+05	322.53	1222.6	-0.14192
500.00	75.471	1.50101E+05	330.41	-15104.	1.5778
550.00	76.613	1.53904E+05	337.66	-31808.	3.0208
600.00	77.544	1.57759E+05	344.37	-48860.	4.2536
650.00	78.311	1.61656E+05	350.60	-66236.	5.3227
700.00	78.949	1.65588E+05	356.43	-83914.	6.2616
750.00	79.479	1.69549E+05	361.90	-1.01874E+05	7.0949
800.00	79.916	1.73534E+05	367.04	-1.20098E+05	7.8414
850.00	80.272	1.77539E+05	371.90	-1.38573E+05	8.5154
900.00	80.553	1.81560E+05	376.49	-1.57283E+05	9.1283
950.00	80.813	1.85594E+05	380.86	-1.76218E+05	9.6889
1000.0	81.036	1.89641E+05	385.01	-1.95365E+05	10.205
1050.0	81.228	1.93697E+05	388.96	-2.14715E+05	10.681
1100.0	81.394	1.97763E+05	392.75	-2.34259E+05	11.124
1150.0	81.539	2.01836E+05	396.37	-2.53988E+05	11.536
1200.0	81.667	2.05917E+05	399.84	-2.73893E+05	11.922
1250.0	81.780	2.10003E+05	403.18	-2.93969E+05	12.284
1300.0	81.880	2.14094E+05	406.39	-3.14209E+05	12.625
1350.0	81.970	2.18191E+05	409.48	-3.34606E+05	12.946
1400.0	82.050	2.22291E+05	412.46	-3.55155E+05	13.251
1450.0	82.122	2.26395E+05	415.34	-3.75851E+05	13.539
1500.0	82.187	2.30503E+05	418.13	-3.96688E+05	13.814
1550.0	82.246	2.34614E+05	420.82	-4.17662E+05	14.075
1600.0	82.300	2.38728E+05	423.44	-4.38769E+05	14.324
1650.0	82.349	2.42844E+05	425.97	-4.60004E+05	14.562
1700.0	82.393	2.46963E+05	428.43	-4.81364E+05	14.790
1750.0	82.434	2.51083E+05	430.82	-5.02846E+05	15.009
1800.0	82.472	2.55206E+05	433.14	-5.24445E+05	15.219
1850.0	82.507	2.59330E+05	435.40	-5.46159E+05	15.420
1900.0	82.539	2.63457E+05	437.60	-5.67984E+05	15.615
1950.0	82.569	2.67584E+05	439.74	-5.89918E+05	15.802
2000.0	82.597	2.71713E+05	441.84	-6.11957E+05	15.982
2050.0	82.622	2.75844E+05	443.88	-6.34100E+05	16.157
2100.0	82.646	2.79976E+05	445.87	-6.56344E+05	16.325
2150.0	82.669	2.84109E+05	447.81	-6.78686E+05	16.488
2200.0	82.690	2.88243E+05	449.71	-7.01124E+05	16.646
2250.0	82.709	2.92378E+05	451.57	-7.23657E+05	16.800
2300.0	82.728	2.96513E+05	453.39	-7.46281E+05	16.948
2350.0	82.745	3.00650E+05	455.17	-7.68995E+05	17.092
2400.0	82.761	3.04788E+05	456.91	-7.91797E+05	17.233
2450.0	82.776	3.08926E+05	458.62	-8.14685E+05	17.369
2500.0	82.791	3.13066E+05	460.29	-8.37658E+05	17.501
2550.0	82.804	3.17205E+05	461.93	-8.60714E+05	17.631
2600.0	82.817	3.21346E+05	463.54	-8.83851E+05	17.756
2650.0	82.830	3.25487E+05	465.11	-9.07067E+05	17.879
2700.0	82.841	3.29629E+05	466.66	-9.30362E+05	17.998
2750.0	82.852	3.33771E+05	468.18	-9.53733E+05	18.115
2800.0	82.862	3.37914E+05	469.68	-9.77179E+05	18.229
2850.0	82.872	3.42057E+05	471.14	-1.00070E+06	18.340
2900.0	82.882	3.46201E+05	472.58	-1.02429E+06	18.449
2950.0	82.891	3.50346E+05	474.00	-1.04796E+06	18.555
3000.0	82.899	3.54490E+05	475.39	-1.07169E+06	18.659

S5<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	87.876	1.32993E+05	354.08	27425.	-4.8046
300.00	88.031	1.33156E+05	354.62	26769.	-4.6608
350.00	91.778	1.37654E+05	368.48	8685.0	-1.2961
400.00	94.883	1.42323E+05	380.95	-10056.	1.3131
450.00	97.541	1.47135E+05	392.28	-29391.	3.4115
500.00	99.857	1.52071E+05	402.68	-49269.	5.1469
550.00	101.89	1.57116E+05	412.29	-69646.	6.6142
600.00	103.67	1.62256E+05	421.24	-90487.	7.8774
650.00	105.23	1.67480E+05	429.60	-1.11760E+05	8.9809
700.00	106.57	1.72776E+05	437.45	-1.33438E+05	9.9570
750.00	107.72	1.78134E+05	444.84	-1.55497E+05	10.830
800.00	108.67	1.83544E+05	451.82	-1.77916E+05	11.616
850.00	109.43	1.88997E+05	458.44	-2.00674E+05	12.332
900.00	110.00	1.94484E+05	464.71	-2.23753E+05	12.986
950.00	110.32	1.99992E+05	470.66	-2.47139E+05	13.588
1000.0	110.52	2.05514E+05	476.33	-2.70815E+05	14.146
1050.0	110.64	2.11043E+05	481.72	-2.94767E+05	14.664
1100.0	110.68	2.16576E+05	486.87	-3.18983E+05	15.147
1150.0	110.67	2.22110E+05	491.79	-3.43451E+05	15.600
1200.0	110.61	2.27642E+05	496.50	-3.68159E+05	16.025
1250.0	110.51	2.33170E+05	501.01	-3.93098E+05	16.426
1300.0	110.38	2.38693E+05	505.35	-4.18258E+05	16.805
1350.0	110.24	2.44209E+05	509.51	-4.43630E+05	17.165
1400.0	110.07	2.49716E+05	513.52	-4.69206E+05	17.506
1450.0	109.89	2.55215E+05	517.38	-4.94979E+05	17.831
1500.0	109.70	2.60705E+05	521.10	-5.20941E+05	18.140
1550.0	109.50	2.66185E+05	524.69	-5.47086E+05	18.436
1600.0	109.29	2.71654E+05	528.16	-5.73408E+05	18.719
1650.0	109.09	2.77114E+05	531.52	-5.99901E+05	18.991
1700.0	108.88	2.82563E+05	534.78	-6.26559E+05	19.251
1750.0	108.67	2.88002E+05	537.93	-6.53377E+05	19.502
1800.0	108.47	2.93430E+05	540.99	-6.80350E+05	19.743
1850.0	108.27	2.98849E+05	543.96	-7.07474E+05	19.975
1900.0	108.07	3.04257E+05	546.84	-7.34745E+05	20.199
1950.0	107.88	3.09656E+05	549.65	-7.62157E+05	20.415
2000.0	107.69	3.15045E+05	552.38	-7.89708E+05	20.625
2050.0	107.51	3.20425E+05	555.03	-8.17394E+05	20.827
2100.0	107.34	3.25796E+05	557.62	-8.45210E+05	21.023
2150.0	107.17	3.31159E+05	560.15	-8.73155E+05	21.213
2200.0	107.02	3.36514E+05	562.61	-9.01224E+05	21.397
2250.0	106.87	3.41861E+05	565.01	-9.29415E+05	21.576
2300.0	106.73	3.47201E+05	567.36	-9.57724E+05	21.750
2350.0	106.60	3.52534E+05	569.65	-9.86150E+05	21.919
2400.0	106.48	3.57861E+05	571.90	-1.01469E+06	22.084
2450.0	106.37	3.63182E+05	574.09	-1.04334E+06	22.244
2500.0	106.27	3.68498E+05	576.24	-1.07210E+06	22.400
2550.0	106.18	3.73809E+05	578.34	-1.10096E+06	22.552
2600.0	106.10	3.79116E+05	580.40	-1.12993E+06	22.700
2650.0	106.03	3.84419E+05	582.42	-1.15900E+06	22.845
2700.0	105.97	3.89719E+05	584.40	-1.18817E+06	22.986
2750.0	105.93	3.95017E+05	586.35	-1.21744E+06	23.124
2800.0	105.89	4.00312E+05	588.26	-1.24681E+06	23.259
2850.0	105.82	4.05605E+05	590.13	-1.27627E+06	23.391
2900.0	105.75	4.10894E+05	591.97	-1.30582E+06	23.520
2950.0	105.69	4.16180E+05	593.78	-1.33546E+06	23.646
3000.0	105.63	4.21463E+05	595.55	-1.36520E+06	23.770

S6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	113.13	1.01315E+05	357.80	-5364.3	0.93977
300.00	113.35	1.01524E+05	358.50	-6026.8	1.0493
350.00	118.07	1.07319E+05	376.36	-24407.	3.6424
400.00	121.19	1.13305E+05	392.34	-43632.	5.6975
450.00	123.38	1.19422E+05	406.75	-63615.	7.3840
500.00	125.01	1.25634E+05	419.84	-84284.	8.8049
550.00	126.26	1.31917E+05	431.81	-1.05580E+05	10.027
600.00	127.28	1.38256E+05	442.84	-1.27450E+05	11.095
650.00	128.12	1.44642E+05	453.07	-1.49851E+05	12.042
700.00	128.84	1.51066E+05	462.59	-1.72745E+05	12.890
750.00	129.48	1.57524E+05	471.50	-1.96099E+05	13.657
800.00	130.05	1.64013E+05	479.87	-2.19886E+05	14.357
850.00	130.58	1.70529E+05	487.77	-2.44079E+05	14.999
900.00	131.08	1.77071E+05	495.25	-2.68656E+05	15.592
950.00	131.56	1.83637E+05	502.35	-2.93598E+05	16.143
1000.0	132.02	1.90226E+05	509.11	-3.18886E+05	16.656
1050.0	132.47	1.96839E+05	515.56	-3.44504E+05	17.138
1100.0	132.91	2.03473E+05	521.74	-3.70437E+05	17.590
1150.0	133.35	2.10130E+05	527.65	-3.96673E+05	18.017
1200.0	133.79	2.16808E+05	533.34	-4.23199E+05	18.421
1250.0	134.23	2.23508E+05	538.81	-4.50003E+05	18.804
1300.0	134.67	2.30231E+05	544.08	-4.77077E+05	19.169
1350.0	135.12	2.36976E+05	549.17	-5.04409E+05	19.516
1400.0	135.57	2.43743E+05	554.10	-5.31991E+05	19.848
1450.0	136.04	2.50533E+05	558.86	-5.59816E+05	20.166
1500.0	136.50	2.57347E+05	563.48	-5.87875E+05	20.471
1550.0	136.98	2.64184E+05	567.96	-6.16161E+05	20.764
1600.0	137.46	2.71045E+05	572.32	-6.44669E+05	21.046
1650.0	137.97	2.77931E+05	576.56	-6.73392E+05	21.317
1700.0	138.42	2.84841E+05	580.68	-7.02323E+05	21.579
1750.0	138.82	2.91772E+05	584.70	-7.31458E+05	21.832
1800.0	139.17	2.98722E+05	588.62	-7.60792E+05	22.077
1850.0	139.47	3.05688E+05	592.44	-7.90319E+05	22.314
1900.0	139.74	3.12669E+05	596.16	-8.20034E+05	22.544
1950.0	139.98	3.19662E+05	599.79	-8.49933E+05	22.767
2000.0	140.18	3.26666E+05	603.34	-8.80012E+05	22.983
2050.0	140.36	3.33680E+05	606.80	-9.10265E+05	23.193
2100.0	140.51	3.40702E+05	610.19	-9.40690E+05	23.398
2150.0	140.64	3.47731E+05	613.49	-9.71283E+05	23.597
2200.0	140.75	3.54766E+05	616.73	-1.00204E+06	23.791
2250.0	140.85	3.61806E+05	619.89	-1.03295E+06	23.980
2300.0	140.92	3.68850E+05	622.99	-1.06403E+06	24.164
2350.0	140.98	3.75898E+05	626.02	-1.09525E+06	24.344
2400.0	141.02	3.82948E+05	628.99	-1.12663E+06	24.520
2450.0	141.06	3.90000E+05	631.90	-1.15815E+06	24.691
2500.0	141.08	3.97053E+05	634.75	-1.18982E+06	24.859
2550.0	141.08	4.04107E+05	637.54	-1.22162E+06	25.023
2600.0	141.08	4.11162E+05	640.28	-1.25357E+06	25.184
2650.0	141.07	4.18216E+05	642.97	-1.28565E+06	25.341
2700.0	141.05	4.25269E+05	645.61	-1.31787E+06	25.495
2750.0	141.03	4.32321E+05	648.19	-1.35021E+06	25.646
2800.0	140.99	4.39372E+05	650.73	-1.38268E+06	25.794
2850.0	140.95	4.46420E+05	653.23	-1.41528E+06	25.939
2900.0	140.91	4.53467E+05	655.68	-1.44801E+06	26.081
2950.0	140.85	4.60511E+05	658.09	-1.48085E+06	26.220
3000.0	140.80	4.67552E+05	660.46	-1.51382E+06	26.357

S7<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	133.80	1.11890E+05	404.85	-8814.8	1.5443
300.00	134.07	1.12138E+05	405.67	-9564.6	1.6653
350.00	139.85	1.18996E+05	426.81	-30386.	4.5348
400.00	143.67	1.26090E+05	445.75	-52209.	6.8176
450.00	146.36	1.33345E+05	462.83	-74930.	8.6975
500.00	148.33	1.40714E+05	478.36	-98466.	10.286
550.00	149.83	1.48170E+05	492.57	-1.22745E+05	11.657
600.00	151.00	1.55692E+05	505.66	-1.47705E+05	12.859
650.00	151.95	1.63266E+05	517.79	-1.73295E+05	13.926
700.00	152.72	1.70884E+05	529.08	-1.99470E+05	14.884
750.00	153.37	1.78537E+05	539.64	-2.26190E+05	15.753
800.00	153.91	1.86219E+05	549.55	-2.53422E+05	16.546
850.00	154.38	1.93927E+05	558.90	-2.81136E+05	17.276
900.00	154.78	2.01656E+05	567.73	-3.09304E+05	17.951
950.00	155.12	2.09404E+05	576.11	-3.37902E+05	18.579
1000.0	155.42	2.17168E+05	584.08	-3.66908E+05	19.165
1050.0	155.68	2.24945E+05	591.66	-3.96303E+05	19.714
1100.0	155.91	2.32735E+05	598.91	-4.26069E+05	20.232
1150.0	156.10	2.40536E+05	605.85	-4.56189E+05	20.720
1200.0	156.27	2.48345E+05	612.49	-4.86649E+05	21.183
1250.0	156.42	2.56162E+05	618.88	-5.17434E+05	21.622
1300.0	156.54	2.63986E+05	625.01	-5.48532E+05	22.040
1350.0	156.64	2.71816E+05	630.92	-5.79932E+05	22.438
1400.0	156.72	2.79650E+05	636.62	-6.11621E+05	22.819
1450.0	156.78	2.87487E+05	642.12	-6.43590E+05	23.184
1500.0	156.82	2.95327E+05	647.44	-6.75830E+05	23.534
1550.0	156.90	3.03170E+05	652.58	-7.08331E+05	23.870
1600.0	156.96	3.11017E+05	657.56	-7.41086E+05	24.193
1650.0	157.02	3.18866E+05	662.39	-7.74085E+05	24.505
1700.0	157.08	3.26719E+05	667.08	-8.07323E+05	24.805
1750.0	157.13	3.34574E+05	671.64	-8.40791E+05	25.096
1800.0	157.17	3.42432E+05	676.06	-8.74484E+05	25.376
1850.0	157.22	3.50291E+05	680.37	-9.08396E+05	25.648
1900.0	157.26	3.58153E+05	684.56	-9.42520E+05	25.911
1950.0	157.29	3.66017E+05	688.65	-9.76850E+05	26.166
2000.0	157.33	3.73882E+05	692.63	-1.01138E+06	26.414
2050.0	157.36	3.81749E+05	696.52	-1.04611E+06	26.655
2100.0	157.39	3.89618E+05	700.31	-1.08103E+06	26.889
2150.0	157.41	3.97488E+05	704.01	-1.11614E+06	27.116
2200.0	157.44	4.05359E+05	707.63	-1.15143E+06	27.338
2250.0	157.46	4.13231E+05	711.17	-1.18690E+06	27.554
2300.0	157.48	4.21105E+05	714.63	-1.22255E+06	27.764
2350.0	157.50	4.28980E+05	718.02	-1.25837E+06	27.970
2400.0	157.52	4.36855E+05	721.34	-1.29435E+06	28.170
2450.0	157.54	4.44732E+05	724.58	-1.33050E+06	28.366
2500.0	157.56	4.52609E+05	727.77	-1.36681E+06	28.557
2550.0	157.57	4.60488E+05	730.89	-1.40327E+06	28.744
2600.0	157.59	4.68367E+05	733.95	-1.43989E+06	28.927
2650.0	157.60	4.76247E+05	736.95	-1.47667E+06	29.106
2700.0	157.62	4.84127E+05	739.89	-1.51359E+06	29.281
2750.0	157.63	4.92008E+05	742.79	-1.55066E+06	29.453
2800.0	157.64	4.99890E+05	745.63	-1.58787E+06	29.621
2850.0	157.65	5.07772E+05	748.42	-1.62522E+06	29.786
2900.0	157.66	5.15655E+05	751.16	-1.66271E+06	29.948
2950.0	157.67	5.23539E+05	753.85	-1.70033E+06	30.106
3000.0	157.68	5.31423E+05	756.51	-1.73809E+06	30.262

S8<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	156.54	1.01277E+05	432.54	-27684.	4.8499
300.00	156.79	1.01567E+05	433.51	-28485.	4.9595
350.00	162.61	1.09560E+05	458.14	-50788.	7.5795
400.00	166.90	1.17803E+05	480.14	-74255.	9.6964
450.00	170.33	1.26236E+05	500.01	-98767.	11.464
500.00	173.24	1.34827E+05	518.11	-1.24226E+05	12.977
550.00	175.82	1.43555E+05	534.74	-1.50553E+05	14.298
600.00	178.20	1.52406E+05	550.14	-1.77680E+05	15.468
650.00	180.44	1.61373E+05	564.50	-2.05550E+05	16.518
700.00	182.59	1.70448E+05	577.95	-2.34114E+05	17.469
750.00	184.69	1.79631E+05	590.62	-2.63331E+05	18.340
800.00	186.76	1.88917E+05	602.60	-2.93164E+05	19.141
850.00	188.99	1.98312E+05	613.99	-3.23582E+05	19.884
900.00	190.85	2.07810E+05	624.85	-3.54555E+05	20.577
950.00	192.39	2.17392E+05	635.21	-3.86058E+05	21.226
1000.0	193.67	2.27044E+05	645.11	-4.18068E+05	21.837
1050.0	194.71	2.36755E+05	654.59	-4.50562E+05	22.414
1100.0	195.54	2.46512E+05	663.67	-4.83520E+05	22.960
1150.0	196.19	2.56306E+05	672.37	-5.16923E+05	23.479
1200.0	196.66	2.66128E+05	680.73	-5.50752E+05	23.973
1250.0	196.96	2.75969E+05	688.77	-5.84991E+05	24.445
1300.0	197.12	2.85822E+05	696.50	-6.19623E+05	24.896
1350.0	197.14	2.95679E+05	703.94	-6.54635E+05	25.329
1400.0	197.02	3.05533E+05	711.10	-6.90013E+05	25.744
1450.0	196.77	3.15378E+05	718.01	-7.25742E+05	26.143
1500.0	196.40	3.25208E+05	724.68	-7.61810E+05	26.528
1550.0	195.86	3.35015E+05	731.11	-7.98206E+05	26.899
1600.0	195.33	3.44794E+05	737.32	-8.34917E+05	27.257
1650.0	194.84	3.54548E+05	743.32	-8.71934E+05	27.602
1700.0	194.36	3.64278E+05	749.13	-9.09246E+05	27.937
1750.0	193.89	3.73984E+05	754.76	-9.46844E+05	28.261
1800.0	193.45	3.83668E+05	760.21	-9.84719E+05	28.575
1850.0	193.02	3.93329E+05	765.51	-1.02286E+06	28.880
1900.0	192.61	4.02970E+05	770.65	-1.06127E+06	29.176
1950.0	192.21	4.12590E+05	775.65	-1.09993E+06	29.463
2000.0	191.82	4.22191E+05	780.51	-1.13883E+06	29.742
2050.0	191.45	4.31773E+05	785.24	-1.17797E+06	30.014
2100.0	191.09	4.41337E+05	789.85	-1.21735E+06	30.279
2150.0	190.75	4.50883E+05	794.34	-1.25696E+06	30.537
2200.0	190.41	4.60412E+05	798.73	-1.29679E+06	30.789
2250.0	190.09	4.69924E+05	803.00	-1.33683E+06	31.034
2300.0	189.78	4.79421E+05	807.18	-1.37708E+06	31.274
2350.0	189.48	4.88902E+05	811.25	-1.41754E+06	31.508
2400.0	189.19	4.98369E+05	815.24	-1.45821E+06	31.736
2450.0	188.91	5.07821E+05	819.14	-1.49907E+06	31.960
2500.0	188.64	5.17260E+05	822.95	-1.54012E+06	32.178
2550.0	188.38	5.26685E+05	826.68	-1.58136E+06	32.392
2600.0	188.13	5.36098E+05	830.34	-1.62279E+06	32.601
2650.0	187.89	5.45498E+05	833.92	-1.66439E+06	32.806
2700.0	187.66	5.54887E+05	837.43	-1.70618E+06	33.007
2750.0	187.44	5.64264E+05	840.87	-1.74814E+06	33.204
2800.0	187.22	5.73630E+05	844.25	-1.79026E+06	33.397
2850.0	187.02	5.82986E+05	847.56	-1.83256E+06	33.586
2900.0	186.83	5.92333E+05	850.81	-1.87502E+06	33.772
2950.0	186.64	6.01669E+05	854.00	-1.91764E+06	33.954
3000.0	186.47	6.10997E+05	857.14	-1.96042E+06	34.133

SCL<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.543	1.56465E+05	237.33	85706.	-15.015
300.00	37.558	1.56534E+05	237.56	85267.	-14.846
350.00	37.853	1.58420E+05	243.37	73240.	-10.930
400.00	38.012	1.60317E+05	248.44	60942.	-7.9580
450.00	38.095	1.62220E+05	252.92	48406.	-5.6187
500.00	38.134	1.64126E+05	256.94	35658.	-3.7250
550.00	38.145	1.66033E+05	260.57	22719.	-2.1576
600.00	38.140	1.67940E+05	263.89	9605.8	-0.83624
650.00	38.125	1.69847E+05	266.94	-3666.1	0.29460
700.00	38.105	1.71753E+05	269.77	-17085.	1.2748
750.00	38.083	1.73658E+05	272.40	-30640.	2.1339
800.00	38.060	1.75561E+05	274.85	-44322.	2.8938
850.00	38.039	1.77464E+05	277.16	-58122.	3.5717
900.00	38.020	1.79365E+05	279.33	-72035.	4.1807
950.00	38.005	1.81266E+05	281.39	-86054.	4.7315
1000.0	37.994	1.83166E+05	283.34	-1.00172E+05	5.2323
1050.0	37.986	1.85065E+05	285.19	-1.14386E+05	5.6903
1100.0	37.984	1.86964E+05	286.96	-1.28690E+05	6.1108
1150.0	37.987	1.88864E+05	288.65	-1.43081E+05	6.4988
1200.0	37.995	1.90763E+05	290.26	-1.57554E+05	6.8580
1250.0	38.008	1.92663E+05	291.82	-1.72106E+05	7.1917
1300.0	38.027	1.94564E+05	293.31	-1.86734E+05	7.5029
1350.0	38.051	1.96466E+05	294.74	-2.01436E+05	7.7938
1400.0	38.065	1.98369E+05	296.13	-2.16208E+05	8.0666
1450.0	38.079	2.00272E+05	297.46	-2.31047E+05	8.3230
1500.0	38.091	2.02177E+05	298.75	-2.45953E+05	8.5646
1550.0	38.104	2.04082E+05	300.00	-2.60922E+05	8.7928
1600.0	38.116	2.05987E+05	301.21	-2.75953E+05	9.0087
1650.0	38.128	2.07893E+05	302.39	-2.91043E+05	9.2134
1700.0	38.140	2.09800E+05	303.52	-3.06191E+05	9.4079
1750.0	38.153	2.11707E+05	304.63	-3.21395E+05	9.5929
1800.0	38.165	2.13615E+05	305.70	-3.36653E+05	9.7692
1850.0	38.177	2.15524E+05	306.75	-3.51964E+05	9.9374
1900.0	38.189	2.17433E+05	307.77	-3.67328E+05	10.098
1950.0	38.201	2.19343E+05	308.76	-3.82741E+05	10.252
2000.0	38.214	2.21253E+05	309.73	-3.98203E+05	10.400
2050.0	38.226	2.23164E+05	310.67	-4.13713E+05	10.541
2100.0	38.239	2.25076E+05	311.59	-4.29270E+05	10.677
2150.0	38.252	2.26988E+05	312.49	-4.44872E+05	10.808
2200.0	38.266	2.28901E+05	313.37	-4.60519E+05	10.934
2250.0	38.279	2.30814E+05	314.23	-4.76209E+05	11.055
2300.0	38.293	2.32729E+05	315.07	-4.91942E+05	11.172
2350.0	38.307	2.34644E+05	315.90	-5.07716E+05	11.285
2400.0	38.321	2.36559E+05	316.70	-5.23531E+05	11.394
2450.0	38.336	2.38476E+05	317.49	-5.39387E+05	11.500
2500.0	38.351	2.40393E+05	318.27	-5.55281E+05	11.602
2550.0	38.366	2.42311E+05	319.03	-5.71213E+05	11.701
2600.0	38.382	2.44230E+05	319.77	-5.87183E+05	11.796
2650.0	38.398	2.46149E+05	320.51	-6.03190E+05	11.889
2700.0	38.414	2.48070E+05	321.22	-6.19234E+05	11.979
2750.0	38.431	2.49991E+05	321.93	-6.35313E+05	12.067
2800.0	38.448	2.51913E+05	322.62	-6.51426E+05	12.152
2850.0	38.465	2.53835E+05	323.30	-6.67574E+05	12.235
2900.0	38.483	2.55759E+05	323.97	-6.83756E+05	12.315
2950.0	38.501	2.57684E+05	324.63	-6.99971E+05	12.394
3000.0	38.520	2.59609E+05	325.28	-7.16219E+05	12.470

S2Cl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	72.768	-16736.	327.21	-1.14295E+05	20.024
300.00	72.881	-16601.	327.67	-1.14901E+05	20.006
350.00	75.367	-12891.	339.10	-1.31576E+05	19.636
400.00	77.093	-9077.1	349.28	-1.48790E+05	19.429
450.00	78.368	-5189.1	358.44	-1.66487E+05	19.325
500.00	79.356	-1245.0	366.75	-1.84620E+05	19.287
550.00	80.148	2743.3	374.35	-2.03150E+05	19.293
600.00	80.801	6767.5	381.35	-2.22045E+05	19.330
650.00	81.349	10822.	387.84	-2.41277E+05	19.389
700.00	81.815	14901.	393.89	-2.60822E+05	19.462
750.00	82.216	19002.	399.55	-2.80660E+05	19.546
800.00	82.562	23122.	404.87	-3.00771E+05	19.638
850.00	82.860	27257.	409.88	-3.21141E+05	19.734
900.00	83.117	31407.	414.62	-3.41755E+05	19.834
950.00	83.337	35569.	419.12	-3.62600E+05	19.937
1000.0	83.522	39740.	423.40	-3.83664E+05	20.040
1050.0	83.676	43920.	427.48	-4.04937E+05	20.144
1100.0	83.800	48107.	431.38	-4.26409E+05	20.248
1150.0	83.896	52300.	435.11	-4.48072E+05	20.352
1200.0	83.964	56496.	438.68	-4.69917E+05	20.454
1250.0	84.007	60696.	442.11	-4.91937E+05	20.556
1300.0	84.024	64897.	445.40	-5.14125E+05	20.657
1350.0	84.017	69098.	448.57	-5.36475E+05	20.757
1400.0	83.985	73298.	451.63	-5.58981E+05	20.855
1450.0	83.930	77496.	454.57	-5.81636E+05	20.952
1500.0	83.852	81691.	457.42	-6.04436E+05	21.048

S2Br2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.251	30962.	350.52	-73546.	12.885
300.00	75.341	31101.	350.98	-74195.	12.918
350.00	77.288	34920.	362.76	-92044.	13.737
400.00	78.599	38819.	373.17	-1.10447E+05	14.423
450.00	79.541	42774.	382.48	-1.29343E+05	15.013
500.00	80.253	46770.	390.90	-1.48681E+05	15.532
550.00	80.815	50797.	398.58	-1.68420E+05	15.995
600.00	81.275	54849.	405.63	-1.88528E+05	16.412
650.00	81.663	58923.	412.15	-2.08975E+05	16.793
700.00	81.998	63015.	418.21	-2.29735E+05	17.143
750.00	82.295	67122.	423.88	-2.50789E+05	17.466
800.00	82.563	71244.	429.20	-2.72118E+05	17.767
850.00	82.808	75378.	434.21	-2.93704E+05	18.048
900.00	83.035	79524.	438.95	-3.15535E+05	18.313
950.00	83.249	83681.	443.45	-3.37596E+05	18.562
1000.0	83.450	87849.	447.73	-3.59876E+05	18.798
1050.0	83.643	92026.	451.80	-3.82365E+05	19.021
1100.0	83.828	96213.	455.70	-4.05053E+05	19.234
1150.0	84.006	1.00409E+05	459.43	-4.27932E+05	19.437
1200.0	84.180	1.04614E+05	463.01	-4.50993E+05	19.631
1250.0	84.348	1.08827E+05	466.45	-4.74230E+05	19.816
1300.0	84.513	1.13048E+05	469.76	-4.97636E+05	19.995
1350.0	84.675	1.17278E+05	472.95	-5.21204E+05	20.166
1400.0	84.834	1.21516E+05	476.03	-5.44929E+05	20.331
1450.0	84.991	1.25762E+05	479.01	-5.68805E+05	20.490
1500.0	85.145	1.30015E+05	481.90	-5.92829E+05	20.644
1550.0	85.298	1.34276E+05	484.69	-6.16994E+05	20.792
1600.0	85.449	1.38545E+05	487.40	-6.41296E+05	20.936
1650.0	85.599	1.42821E+05	490.03	-6.65732E+05	21.075
1700.0	85.747	1.47105E+05	492.59	-6.90298E+05	21.210
1750.0	85.895	1.51396E+05	495.08	-7.14990E+05	21.341
1800.0	86.041	1.55694E+05	497.50	-7.39805E+05	21.468
1850.0	86.186	1.60000E+05	499.86	-7.64739E+05	21.592
1900.0	86.331	1.64313E+05	502.16	-7.89790E+05	21.712
1950.0	86.475	1.68633E+05	504.40	-8.14954E+05	21.830
2000.0	86.618	1.72960E+05	506.59	-8.40229E+05	21.944

SBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	52.897	-12552.	301.65	-1.02489E+05	17.955
300.00	52.959	-12454.	301.98	-1.03047E+05	17.942
350.00	54.286	-9770.4	310.25	-1.18357E+05	17.663
400.00	55.150	-7033.1	317.56	-1.34056E+05	17.505
450.00	55.746	-4259.8	324.09	-1.50100E+05	17.423
500.00	56.174	-1461.3	329.99	-1.66455E+05	17.389
550.00	56.493	1355.8	335.36	-1.83090E+05	17.388
600.00	56.738	4186.8	340.28	-1.99983E+05	17.410
650.00	56.930	7028.7	344.83	-2.17112E+05	17.447
700.00	57.085	9879.2	349.06	-2.34461E+05	17.495
750.00	57.211	12737.	353.00	-2.52013E+05	17.551
800.00	57.316	15600.	356.70	-2.69756E+05	17.613
850.00	57.404	18468.	360.17	-2.87679E+05	17.678
900.00	57.479	21340.	363.46	-3.05771E+05	17.746
950.00	57.545	24216.	366.57	-3.24022E+05	17.816
1000.0	57.602	27094.	369.52	-3.42425E+05	17.886
1050.0	57.652	29976.	372.33	-3.60971E+05	17.957
1100.0	57.696	32860.	375.01	-3.79655E+05	18.028
1150.0	57.736	35745.	377.58	-3.98471E+05	18.099
1200.0	57.773	38633.	380.04	-4.17412E+05	18.169
1250.0	57.805	41523.	382.40	-4.36473E+05	18.239
1300.0	57.836	44414.	384.66	-4.55650E+05	18.308
1350.0	57.863	47306.	386.85	-4.74938E+05	18.376
1400.0	57.889	50200.	388.95	-4.94333E+05	18.443
1450.0	57.913	53095.	390.98	-5.13832E+05	18.510
1500.0	57.936	55991.	392.95	-5.33430E+05	18.575
1550.0	57.957	58889.	394.85	-5.53126E+05	18.640
1600.0	57.977	61787.	396.69	-5.72914E+05	18.703
1650.0	57.996	64686.	398.47	-5.92793E+05	18.766
1700.0	58.014	67586.	400.20	-6.12761E+05	18.827
1750.0	58.031	70488.	401.89	-6.32813E+05	18.888
1800.0	58.048	73390.	403.52	-6.52948E+05	18.948
1850.0	58.064	76292.	405.11	-6.73164E+05	19.006
1900.0	58.079	79196.	406.66	-6.93459E+05	19.064
1950.0	58.094	82100.	408.17	-7.13830E+05	19.121
2000.0	58.109	85005.	409.64	-7.34275E+05	19.177

Sb

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.230	0.00000E+00	45.522	-13572.	2.3778
300.00	25.250	46.694	45.678	-13657.	2.3778
350.00	25.654	1320.0	49.603	-16041.	2.3939
400.00	25.940	2610.1	53.048	-18609.	2.4300
450.00	26.195	3913.5	56.118	-21340.	2.4770
500.00	26.464	5229.8	58.892	-24216.	2.5298
550.00	26.775	6560.6	61.428	-27225.	2.5855
600.00	27.143	7908.3	63.773	-30356.	2.6426
650.00	27.577	9276.0	65.962	-33600.	2.7000
700.00	28.084	10667.	68.024	-36950.	2.7571
750.00	28.669	12086.	69.981	-40400.	2.8136
800.00	29.334	13535.	71.852	-43946.	2.8693
850.00	30.081	15020.	73.653	-47584.	2.9241
900.00	30.913	16545.	75.395	-51311.	2.9779
903.78	30.980	16662.	75.525	-51596.	2.9819
903.78	31.380	36536.	97.515	-51596.	2.9820
950.00	31.380	37986.	99.080	-56140.	3.0867
1000.0	31.380	39555.	100.69	-61134.	3.1932
1050.0	31.380	41124.	102.22	-66207.	3.2935
1100.0	31.380	42693.	103.68	-71355.	3.3883
1150.0	31.380	44262.	105.08	-76574.	3.4780
1200.0	31.380	45831.	106.41	-81861.	3.5632
1250.0	31.380	47400.	107.69	-87214.	3.6444
1300.0	31.380	48969.	108.92	-92630.	3.7218
1350.0	31.380	50538.	110.11	-98106.	3.7958
1400.0	31.380	52107.	111.25	-1.03640E+05	3.8667
1450.0	31.380	53676.	112.35	-1.09230E+05	3.9348
1500.0	31.380	55245.	113.41	-1.14874E+05	4.0002
1550.0	31.380	56814.	114.44	-1.20571E+05	4.0631
1600.0	31.380	58383.	115.44	-1.26318E+05	4.1237
1650.0	31.380	59952.	116.40	-1.32114E+05	4.1823
1700.0	31.380	61521.	117.34	-1.37958E+05	4.2388
1750.0	31.380	63090.	118.25	-1.43847E+05	4.2935
1800.0	31.380	64659.	119.13	-1.49782E+05	4.3465
1850.0	31.380	66228.	119.99	-1.55761E+05	4.3978
1900.0	31.380	67797.	120.83	-1.61781E+05	4.4476
1950.0	31.380	69366.	121.65	-1.67843E+05	4.4959
2000.0	31.380	70935.	122.44	-1.73945E+05	4.5429

Sb<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.779	2.67175E+05	180.27	2.13428E+05	-37.391
300.00	20.780	2.67213E+05	180.40	2.13094E+05	-37.102
350.00	20.804	2.68253E+05	183.60	2.03992E+05	-30.443
400.00	20.811	2.69294E+05	186.38	1.94741E+05	-25.430
450.00	20.809	2.70334E+05	188.83	1.85359E+05	-21.515
500.00	20.802	2.71374E+05	191.02	1.75862E+05	-18.372
550.00	20.794	2.72414E+05	193.01	1.66260E+05	-15.790
600.00	20.786	2.73454E+05	194.82	1.56564E+05	-13.630
650.00	20.778	2.74493E+05	196.48	1.46781E+05	-11.795
700.00	20.772	2.75532E+05	198.02	1.36918E+05	-10.217
750.00	20.768	2.76570E+05	199.45	1.26981E+05	-8.8435
800.00	20.766	2.77608E+05	200.79	1.16975E+05	-7.6375
850.00	20.766	2.78647E+05	202.05	1.06903E+05	-6.5693
900.00	20.769	2.79685E+05	203.24	96771.	-5.6163
950.00	20.775	2.80724E+05	204.36	86581.	-4.7604
1000.0	20.783	2.81763E+05	205.43	76336.	-3.9873
1050.0	20.795	2.82802E+05	206.44	66039.	-3.2852
1100.0	20.809	2.83842E+05	207.41	55692.	-2.6445
1150.0	20.826	2.84883E+05	208.33	45299.	-2.0575
1200.0	20.846	2.85925E+05	209.22	34859.	-1.5174
1250.0	20.869	2.86968E+05	210.07	24377.	-1.0186
1300.0	20.896	2.88012E+05	210.89	13853.	-0.55660
1350.0	20.925	2.89057E+05	211.68	3288.4	-0.12723
1400.0	20.957	2.90104E+05	212.44	-7314.8	0.27291
1450.0	20.993	2.91153E+05	213.18	-17955.	0.64681
1500.0	21.032	2.92204E+05	213.89	-28632.	0.99704
1550.0	21.065	2.93256E+05	214.58	-39344.	1.3259
1600.0	21.118	2.94310E+05	215.25	-50090.	1.6352
1650.0	21.188	2.95368E+05	215.90	-60869.	1.9269
1700.0	21.273	2.96430E+05	216.53	-71680.	2.2024
1750.0	21.370	2.97496E+05	217.15	-82522.	2.4631
1800.0	21.478	2.98567E+05	217.76	-93395.	2.7102
1850.0	21.597	2.99644E+05	218.35	-1.04297E+05	2.9448
1900.0	21.724	3.00726E+05	218.92	-1.15229E+05	3.1678
1950.0	21.858	3.01816E+05	219.49	-1.26190E+05	3.3802
2000.0	22.000	3.02912E+05	220.05	-1.37178E+05	3.5826
2050.0	22.147	3.04016E+05	220.59	-1.48194E+05	3.7759
2100.0	22.300	3.05127E+05	221.13	-1.59237E+05	3.9607
2150.0	22.457	3.06246E+05	221.65	-1.70306E+05	4.1375
2200.0	22.618	3.07373E+05	222.17	-1.81402E+05	4.3069
2250.0	22.783	3.08508E+05	222.68	-1.92523E+05	4.4694
2300.0	22.951	3.09651E+05	223.18	-2.03670E+05	4.6254
2350.0	23.122	3.10803E+05	223.68	-2.14842E+05	4.7753
2400.0	23.295	3.11964E+05	224.17	-2.26038E+05	4.9195
2450.0	23.470	3.13133E+05	224.65	-2.37258E+05	5.0583
2500.0	23.647	3.14311E+05	225.13	-2.48503E+05	5.1920
2550.0	23.825	3.15497E+05	225.60	-2.59771E+05	5.3211
2600.0	24.005	3.16693E+05	226.06	-2.71062E+05	5.4456
2650.0	24.185	3.17898E+05	226.52	-2.82377E+05	5.5658
2700.0	24.367	3.19112E+05	226.97	-2.93714E+05	5.6821
2750.0	24.549	3.20335E+05	227.42	-3.05074E+05	5.7945
2800.0	24.732	3.21567E+05	227.87	-3.16456E+05	5.9034
2850.0	24.915	3.22808E+05	228.30	-3.27860E+05	6.0089
2900.0	25.099	3.24058E+05	228.74	-3.39286E+05	6.1111
2950.0	25.282	3.25318E+05	229.17	-3.50734E+05	6.2102
3000.0	25.466	3.26586E+05	229.60	-3.62203E+05	6.3064

Sb2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.434	2.37356E+05	256.83	1.60783E+05	-28.168
300.00	36.450	2.37423E+05	257.05	1.60308E+05	-27.911
350.00	36.784	2.39255E+05	262.70	1.47311E+05	-21.984
400.00	36.996	2.41100E+05	267.62	1.34050E+05	-17.505
450.00	37.138	2.42953E+05	271.99	1.20558E+05	-13.994
500.00	37.239	2.44813E+05	275.91	1.06859E+05	-11.163
550.00	37.315	2.46677E+05	279.46	92973.	-8.8296
600.00	37.374	2.48544E+05	282.71	78918.	-6.8702
650.00	37.422	2.50414E+05	285.70	64706.	-5.1997
700.00	37.464	2.52286E+05	288.48	50351.	-3.7571
750.00	37.503	2.54160E+05	291.07	35861.	-2.4975
800.00	37.539	2.56036E+05	293.49	21247.	-1.3872
850.00	37.575	2.57914E+05	295.76	6515.1	-0.40036
900.00	37.611	2.59794E+05	297.91	-8327.3	0.48329
950.00	37.649	2.61675E+05	299.95	-23274.	1.2797
1000.0	37.688	2.63559E+05	301.88	-38320.	2.0016
1050.0	37.729	2.65444E+05	303.72	-53461.	2.6595
1100.0	37.773	2.67332E+05	305.48	-68691.	3.2618
1150.0	37.819	2.69222E+05	307.16	-84007.	3.8156
1200.0	37.869	2.71114E+05	308.77	-99405.	4.3269
1250.0	37.921	2.73009E+05	310.31	-1.14882E+05	4.8006
1300.0	37.977	2.74906E+05	311.80	-1.30436E+05	5.2408
1350.0	38.036	2.76806E+05	313.24	-1.46062E+05	5.6513
1400.0	38.098	2.78710E+05	314.62	-1.61758E+05	6.0351
1450.0	38.164	2.80616E+05	315.96	-1.77523E+05	6.3949
1500.0	38.233	2.82526E+05	317.25	-1.93353E+05	6.7330
1550.0	38.306	2.84440E+05	318.51	-2.09248E+05	7.0514
1600.0	38.382	2.86357E+05	319.73	-2.25203E+05	7.3520
1650.0	38.462	2.88278E+05	320.91	-2.41219E+05	7.6362
1700.0	38.547	2.90203E+05	322.06	-2.57294E+05	7.9055
1750.0	38.640	2.92133E+05	323.18	-2.73425E+05	8.1611
1800.0	38.754	2.94067E+05	324.27	-2.89611E+05	8.4041
1850.0	38.887	2.96008E+05	325.33	-3.05851E+05	8.6355
1900.0	39.040	2.97956E+05	326.37	-3.22143E+05	8.8561
1950.0	39.211	2.99913E+05	327.38	-3.38487E+05	9.0668
2000.0	39.401	3.01878E+05	328.38	-3.54881E+05	9.2683
2050.0	39.607	3.03853E+05	329.35	-3.71325E+05	9.4612
2100.0	39.831	3.05839E+05	330.31	-3.87817E+05	9.6462
2150.0	40.071	3.07836E+05	331.25	-4.04356E+05	9.8236
2200.0	40.327	3.09846E+05	332.18	-4.20942E+05	9.9942
2250.0	40.600	3.11869E+05	333.09	-4.37573E+05	10.158
2300.0	40.888	3.13906E+05	333.98	-4.54250E+05	10.316
2350.0	41.191	3.15958E+05	334.86	-4.70971E+05	10.468
2400.0	41.510	3.18026E+05	335.73	-4.87736E+05	10.615
2450.0	41.843	3.20109E+05	336.59	-5.04544E+05	10.757
2500.0	42.192	3.22210E+05	337.44	-5.21395E+05	10.894
2550.0	42.555	3.24329E+05	338.28	-5.38288E+05	11.026
2600.0	42.933	3.26466E+05	339.11	-5.55223E+05	11.154
2650.0	43.325	3.28622E+05	339.93	-5.72199E+05	11.278
2700.0	43.732	3.30799E+05	340.75	-5.89216E+05	11.399
2750.0	44.152	3.32996E+05	341.55	-6.06274E+05	11.516
2800.0	44.587	3.35214E+05	342.35	-6.23371E+05	11.629
2850.0	45.036	3.37455E+05	343.15	-6.40509E+05	11.739
2900.0	45.499	3.39718E+05	343.93	-6.57686E+05	11.846
2950.0	45.975	3.42005E+05	344.71	-6.74902E+05	11.950
3000.0	46.466	3.44316E+05	345.49	-6.92157E+05	12.051

Sb4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.522	2.18410E+05	363.27	1.10101E+05	-19.289
300.00	80.554	2.18559E+05	363.77	1.09429E+05	-19.053
350.00	81.237	2.22605E+05	376.24	90921.	-13.569
400.00	81.681	2.26679E+05	387.12	71831.	-9.3799
450.00	81.985	2.30771E+05	396.76	52229.	-6.0625
500.00	82.203	2.34876E+05	405.41	32171.	-3.3608
550.00	82.364	2.38990E+05	413.25	11702.	-1.1113
600.00	82.486	2.43112E+05	420.42	-9142.5	0.79590
650.00	82.582	2.47238E+05	427.03	-30331.	2.4374
700.00	82.658	2.51369E+05	433.15	-51837.	3.8681
750.00	82.719	2.55504E+05	438.86	-73639.	5.1286
800.00	82.770	2.59641E+05	444.20	-95717.	6.2495
850.00	82.811	2.63781E+05	449.22	-1.18054E+05	7.2545
900.00	82.846	2.67922E+05	453.95	-1.40634E+05	8.1620
950.00	82.876	2.72065E+05	458.43	-1.63445E+05	8.9866
1000.0	82.901	2.76210E+05	462.68	-1.86473E+05	9.7401
1050.0	82.923	2.80355E+05	466.73	-2.09710E+05	10.432
1100.0	82.942	2.84502E+05	470.59	-2.33143E+05	11.071
1150.0	82.959	2.88650E+05	474.27	-2.56765E+05	11.662
1200.0	82.974	2.92798E+05	477.80	-2.80568E+05	12.212
1250.0	82.987	2.96947E+05	481.19	-3.04543E+05	12.726
1300.0	82.998	3.01097E+05	484.45	-3.28685E+05	13.206
1350.0	83.008	3.05247E+05	487.58	-3.52986E+05	13.658
1400.0	83.018	3.09397E+05	490.60	-3.77441E+05	14.082
1450.0	83.026	3.13548E+05	493.51	-4.02044E+05	14.483
1500.0	83.034	3.17700E+05	496.33	-4.26791E+05	14.862
1550.0	83.040	3.21852E+05	499.05	-4.51675E+05	15.221
1600.0	83.047	3.26004E+05	501.69	-4.76694E+05	15.562
1650.0	83.052	3.30156E+05	504.24	-5.01843E+05	15.887
1700.0	83.058	3.34309E+05	506.72	-5.27117E+05	16.196
1750.0	83.062	3.38462E+05	509.13	-5.52514E+05	16.491
1800.0	83.067	3.42615E+05	511.47	-5.78029E+05	16.774
1850.0	83.071	3.46769E+05	513.75	-6.03660E+05	17.044
1900.0	83.075	3.50923E+05	515.96	-6.29402E+05	17.303
1950.0	83.078	3.55076E+05	518.12	-6.55255E+05	17.552
2000.0	83.082	3.59230E+05	520.22	-6.81213E+05	17.791
2050.0	83.085	3.63385E+05	522.27	-7.07276E+05	18.021
2100.0	83.088	3.67539E+05	524.28	-7.33440E+05	18.243
2150.0	83.090	3.71693E+05	526.23	-7.59703E+05	18.457
2200.0	83.093	3.75848E+05	528.14	-7.86062E+05	18.663
2250.0	83.095	3.80003E+05	530.01	-8.12516E+05	18.862
2300.0	83.097	3.84157E+05	531.83	-8.39062E+05	19.055
2350.0	83.099	3.88312E+05	533.62	-8.65699E+05	19.242
2400.0	83.101	3.92467E+05	535.37	-8.92424E+05	19.423
2450.0	83.103	3.96622E+05	537.08	-9.19235E+05	19.598
2500.0	83.105	4.00778E+05	538.76	-9.46132E+05	19.768
2550.0	83.106	4.04933E+05	540.41	-9.73111E+05	19.933
2600.0	83.108	4.09088E+05	542.02	-1.00017E+06	20.093
2650.0	83.109	4.13244E+05	543.61	-1.02731E+06	20.249
2700.0	83.111	4.17399E+05	545.16	-1.05453E+06	20.401
2750.0	83.112	4.21555E+05	546.68	-1.08183E+06	20.548
2800.0	83.113	4.25710E+05	548.18	-1.10920E+06	20.692
2850.0	83.115	4.29866E+05	549.65	-1.13665E+06	20.832
2900.0	83.116	4.34022E+05	551.10	-1.16417E+06	20.968
2950.0	83.117	4.38178E+05	552.52	-1.19176E+06	21.101
3000.0	83.118	4.42334E+05	553.92	-1.21942E+06	21.231

SbBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.959	-1.94556E+05	374.54	-3.06224E+05	53.648
300.00	79.996	-1.94408E+05	375.03	-3.06917E+05	53.438
350.00	80.804	-1.90386E+05	387.43	-3.25986E+05	48.650
400.00	81.332	-1.86332E+05	398.25	-3.45634E+05	45.134
450.00	81.696	-1.82256E+05	407.86	-3.65791E+05	42.459
500.00	81.960	-1.78164E+05	416.48	-3.86403E+05	40.366
550.00	82.157	-1.74061E+05	424.30	-4.07426E+05	38.693
600.00	82.308	-1.69949E+05	431.45	-4.28822E+05	37.331
650.00	82.429	-1.65831E+05	438.05	-4.50562E+05	36.207
700.00	82.526	-1.61707E+05	444.16	-4.72619E+05	35.266
750.00	82.606	-1.57579E+05	449.86	-4.94971E+05	34.472
800.00	82.673	-1.53446E+05	455.19	-5.17598E+05	33.795
850.00	82.730	-1.49311E+05	460.20	-5.40485E+05	33.213
900.00	82.780	-1.45174E+05	464.93	-5.63614E+05	32.710
950.00	82.823	-1.41034E+05	469.41	-5.86974E+05	32.273
1000.0	82.861	-1.36891E+05	473.66	-6.10551E+05	31.891
1050.0	82.895	-1.32747E+05	477.70	-6.34336E+05	31.556
1100.0	82.925	-1.28602E+05	481.56	-6.58319E+05	31.260
1150.0	82.953	-1.24455E+05	485.25	-6.82490E+05	30.999
1200.0	82.979	-1.20307E+05	488.78	-7.06841E+05	30.767
1250.0	83.002	-1.16157E+05	492.17	-7.31365E+05	30.561
1300.0	83.024	-1.12006E+05	495.42	-7.56055E+05	30.378
1350.0	83.045	-1.07855E+05	498.56	-7.80905E+05	30.214
1400.0	83.064	-1.03702E+05	501.58	-8.05909E+05	30.068
1450.0	83.082	-99548.	504.49	-8.31061E+05	29.937
1500.0	83.099	-95394.	507.31	-8.56356E+05	29.820
1550.0	83.116	-91238.	510.03	-8.81790E+05	29.715
1600.0	83.131	-87082.	512.67	-9.07358E+05	29.621
1650.0	83.147	-82925.	515.23	-9.33056E+05	29.537
1700.0	83.161	-78768.	517.71	-9.58880E+05	29.462
1750.0	83.175	-74609.	520.12	-9.84826E+05	29.395
1800.0	83.189	-70450.	522.47	-1.01089E+06	29.335
1850.0	83.202	-66290.	524.75	-1.03707E+06	29.281
1900.0	83.215	-62130.	526.97	-1.06337E+06	29.233
1950.0	83.228	-57969.	529.13	-1.08977E+06	29.191
2000.0	83.240	-53807.	531.23	-1.11628E+06	29.153

Sc

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.522	0.00000E+00	34.644	-10329.	1.8096
300.00	25.541	47.234	34.802	-10393.	1.8096
350.00	25.966	1335.5	38.773	-12235.	1.8259
400.00	26.290	2642.2	42.262	-14263.	1.8625
450.00	26.577	3964.0	45.375	-16455.	1.9100
500.00	26.860	5299.9	48.190	-18795.	1.9635
550.00	27.156	6650.2	50.764	-21270.	2.0200
600.00	27.478	8015.9	53.140	-23868.	2.0779
650.00	27.833	9398.6	55.354	-26581.	2.1360
700.00	28.224	10800.	57.430	-29401.	2.1939
750.00	28.656	12222.	59.392	-32322.	2.2511
800.00	29.130	13666.	61.256	-35339.	2.3073
850.00	29.613	15135.	63.037	-38447.	2.3626
900.00	30.122	16628.	64.744	-41641.	2.4167
950.00	30.656	18147.	66.386	-44920.	2.4698
1000.0	31.216	19694.	67.973	-48279.	2.5218
1050.0	31.802	21269.	69.510	-51716.	2.5727
1100.0	32.413	22874.	71.004	-55229.	2.6226
1150.0	33.051	24511.	72.458	-58816.	2.6714
1200.0	33.714	26180.	73.879	-62475.	2.7194
1250.0	34.403	27883.	75.269	-66204.	2.7664
1300.0	35.118	29621.	76.632	-70001.	2.8126
1350.0	35.858	31395.	77.971	-73866.	2.8580
1400.0	36.624	33207.	79.289	-77798.	2.9026
1450.0	37.416	35058.	80.588	-81795.	2.9465
1500.0	38.234	36949.	81.870	-85856.	2.9897
1550.0	39.078	38882.	83.138	-89982.	3.0323
1600.0	39.947	40857.	84.392	-94170.	3.0743
1608.0	40.089	41177.	84.592	-94846.	3.0809
1608.0	44.225	45186.	87.084	-94846.	3.0809
1650.0	44.225	47043.	88.225	-98528.	3.1190
1700.0	44.225	49254.	89.545	-1.02972E+05	3.1639
1750.0	44.225	51466.	90.827	-1.07481E+05	3.2081
1800.0	44.225	53677.	92.073	-1.12054E+05	3.2516
1814.0	44.225	54296.	92.415	-1.13345E+05	3.2637
1814.0	44.225	68392.	100.19	-1.13345E+05	3.2637
1850.0	44.225	69984.	101.06	-1.16968E+05	3.3025
1900.0	44.225	72195.	102.23	-1.22050E+05	3.3553
1950.0	44.225	74406.	103.38	-1.27191E+05	3.4070
2000.0	44.225	76618.	104.50	-1.32388E+05	3.4575
2050.0	44.225	78829.	105.59	-1.37641E+05	3.5070
2100.0	44.225	81040.	106.66	-1.42947E+05	3.5555
2150.0	44.225	83251.	107.70	-1.48306E+05	3.6030
2200.0	44.225	85463.	108.72	-1.53717E+05	3.6496
2250.0	44.225	87674.	109.71	-1.59178E+05	3.6953
2300.0	44.225	89885.	110.68	-1.64688E+05	3.7401
2350.0	44.225	92096.	111.63	-1.70246E+05	3.7840
2400.0	44.225	94308.	112.57	-1.75851E+05	3.8272
2450.0	44.225	96519.	113.48	-1.81502E+05	3.8696
2500.0	44.225	98730.	114.37	-1.87198E+05	3.9112
2550.0	44.225	1.00941E+05	115.25	-1.92939E+05	3.9521
2600.0	44.225	1.03153E+05	116.11	-1.98723E+05	3.9923
2650.0	44.225	1.05364E+05	116.95	-2.04549E+05	4.0318
2700.0	44.225	1.07575E+05	117.77	-2.10417E+05	4.0707
2750.0	44.225	1.09786E+05	118.59	-2.16326E+05	4.1089
2800.0	44.225	1.11998E+05	119.38	-2.22276E+05	4.1465
2850.0	44.225	1.14209E+05	120.17	-2.28264E+05	4.1835
2900.0	44.225	1.16420E+05	120.94	-2.34292E+05	4.2199
2950.0	44.225	1.18631E+05	121.69	-2.40358E+05	4.2558
3000.0	44.225	1.20843E+05	122.43	-2.46461E+05	4.2912

Sc<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	22.098	3.77700E+05	174.79	3.25588E+05	-57.040
300.00	22.084	3.77741E+05	174.92	3.25264E+05	-56.632
350.00	21.766	3.78837E+05	178.30	3.16431E+05	-47.224
400.00	21.552	3.79919E+05	181.19	3.07442E+05	-40.147
450.00	21.400	3.80993E+05	183.72	2.98318E+05	-34.627
500.00	21.288	3.82060E+05	185.97	2.89075E+05	-30.199
550.00	21.201	3.83122E+05	187.99	2.79725E+05	-26.565
600.00	21.133	3.84180E+05	189.84	2.70279E+05	-23.529
650.00	21.077	3.85235E+05	191.53	2.60744E+05	-20.953
700.00	21.033	3.86288E+05	193.09	2.51128E+05	-18.739
750.00	20.996	3.87339E+05	194.54	2.41437E+05	-16.815
800.00	20.965	3.88388E+05	195.89	2.31676E+05	-15.127
850.00	20.940	3.89435E+05	197.16	2.21850E+05	-13.633
900.00	20.920	3.90482E+05	198.36	2.11962E+05	-12.302
950.00	20.904	3.91528E+05	199.49	2.02015E+05	-11.107
1000.0	20.891	3.92572E+05	200.56	1.92014E+05	-10.030
1050.0	20.881	3.93617E+05	201.58	1.81960E+05	-9.0518
1100.0	20.874	3.94661E+05	202.55	1.71857E+05	-8.1606
1150.0	20.871	3.95704E+05	203.48	1.61706E+05	-7.3447
1200.0	20.869	3.96748E+05	204.36	1.51510E+05	-6.5949
1250.0	20.870	3.97791E+05	205.22	1.41270E+05	-5.9032
1300.0	20.874	3.98835E+05	206.04	1.30989E+05	-5.2631
1350.0	20.880	3.99879E+05	206.82	1.20667E+05	-4.6688
1400.0	20.888	4.00923E+05	207.58	1.10307E+05	-4.1155
1450.0	20.898	4.01967E+05	208.32	99909.	-3.5990
1500.0	20.910	4.03013E+05	209.02	89476.	-3.1157
1550.0	20.924	4.04058E+05	209.71	79007.	-2.6625
1600.0	20.940	4.05105E+05	210.37	68505.	-2.2364
1650.0	20.958	4.06152E+05	211.02	57970.	-1.8351
1700.0	20.978	4.07201E+05	211.65	47403.	-1.4565
1750.0	21.010	4.08250E+05	212.25	36806.	-1.0986
1800.0	21.051	4.09302E+05	212.85	26178.	-0.75965
1850.0	21.102	4.10356E+05	213.42	15521.	-0.43824
1900.0	21.165	4.11412E+05	213.99	4836.1	-0.13295
1950.0	21.239	4.12472E+05	214.54	-5877.1	0.15743
2000.0	21.325	4.13536E+05	215.08	-16618.	0.43399
2050.0	21.423	4.14605E+05	215.60	-27385.	0.69775
2100.0	21.534	4.15679E+05	216.12	-38178.	0.94960
2150.0	21.659	4.16759E+05	216.63	-48997.	1.1904
2200.0	21.797	4.17845E+05	217.13	-59841.	1.4208
2250.0	21.948	4.18939E+05	217.62	-70710.	1.6415
2300.0	22.114	4.20040E+05	218.11	-81603.	1.8532
2350.0	22.294	4.21150E+05	218.58	-92520.	2.0564
2400.0	22.489	4.22270E+05	219.05	-1.03461E+05	2.2517
2450.0	22.697	4.23399E+05	219.52	-1.14425E+05	2.4395
2500.0	22.921	4.24540E+05	219.98	-1.25413E+05	2.6203
2550.0	23.160	4.25692E+05	220.44	-1.36423E+05	2.7944
2600.0	23.413	4.26856E+05	220.89	-1.47457E+05	2.9624
2650.0	23.682	4.28033E+05	221.34	-1.58512E+05	3.1244
2700.0	23.966	4.29224E+05	221.78	-1.69590E+05	3.2808
2750.0	24.266	4.30430E+05	222.23	-1.80691E+05	3.4320
2800.0	24.581	4.31651E+05	222.67	-1.91813E+05	3.5782
2850.0	24.911	4.32889E+05	223.10	-2.02957E+05	3.7197
2900.0	25.257	4.34143E+05	223.54	-2.14123E+05	3.8567
2950.0	25.618	4.35414E+05	223.97	-2.25311E+05	3.9894
3000.0	25.996	4.36705E+05	224.41	-2.36521E+05	4.1181

Se

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.066	0.00000E+00	41.966	-12512.	2.1920
300.00	25.107	46.410	42.121	-12590.	2.1920
350.00	26.272	1330.1	46.077	-14797.	2.2082
400.00	27.686	2677.8	49.674	-17192.	2.2449
450.00	29.436	4104.3	53.032	-19760.	2.2936
494.00	31.292	5439.2	55.861	-22156.	2.3427
494.00	35.146	12134.	69.412	-22156.	2.3427
500.00	35.146	12345.	69.837	-22574.	2.3582
550.00	35.146	14102.	73.186	-26151.	2.4835
600.00	35.146	15859.	76.244	-29888.	2.6019
650.00	35.146	17616.	79.058	-33771.	2.7138
700.00	35.146	19374.	81.662	-37790.	2.8198
750.00	35.146	21131.	84.087	-41934.	2.9205
800.00	35.146	22888.	86.355	-46196.	3.0162
850.00	35.146	24645.	88.486	-50568.	3.1074
900.00	35.146	26403.	90.495	-55043.	3.1945
950.00	35.146	28160.	92.395	-59615.	3.2778
1000.0	35.146	29917.	94.198	-64280.	3.3576

Se<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.825	2.37589E+05	176.73	1.84898E+05	-32.393
300.00	20.822	2.37628E+05	176.86	1.84571E+05	-32.136
350.00	20.828	2.38668E+05	180.06	1.75646E+05	-26.213
400.00	20.963	2.39712E+05	182.85	1.66571E+05	-21.751
450.00	21.165	2.40765E+05	185.33	1.57366E+05	-18.266
500.00	21.400	2.41830E+05	187.58	1.48042E+05	-15.465
550.00	21.650	2.42906E+05	189.63	1.38611E+05	-13.164
600.00	21.905	2.43995E+05	191.52	1.29082E+05	-11.237
650.00	22.156	2.45096E+05	193.28	1.19461E+05	-9.5998
700.00	22.400	2.46210E+05	194.94	1.09755E+05	-8.1898
750.00	22.633	2.47336E+05	196.49	99969.	-6.9623
800.00	22.854	2.48473E+05	197.96	90108.	-5.8833
850.00	23.081	2.49622E+05	199.35	80175.	-4.9268
900.00	23.259	2.50780E+05	200.67	70174.	-4.0727
950.00	23.398	2.51947E+05	201.94	60109.	-3.3049
1000.0	23.506	2.53120E+05	203.14	49982.	-2.6107
1050.0	23.589	2.54297E+05	204.29	39796.	-1.9797
1100.0	23.652	2.55478E+05	205.39	29554.	-1.4034
1150.0	23.699	2.56662E+05	206.44	19258.	-0.87470
1200.0	23.732	2.57848E+05	207.45	8910.6	-0.38786
1250.0	23.754	2.59035E+05	208.42	-1486.1	6.2E-02
1300.0	23.766	2.60223E+05	209.35	-11930.	0.47936
1350.0	23.771	2.61412E+05	210.25	-22420.	0.86748
1400.0	23.770	2.62600E+05	211.11	-32954.	1.2295
1450.0	23.763	2.63789E+05	211.94	-43531.	1.5681
1500.0	23.752	2.64976E+05	212.75	-54148.	1.8856
1550.0	23.737	2.66164E+05	213.53	-64806.	2.1839
1600.0	23.719	2.67350E+05	214.28	-75501.	2.4648
1650.0	23.699	2.68536E+05	215.01	-86233.	2.7299
1700.0	23.677	2.69720E+05	215.72	-97002.	2.9804
1750.0	23.653	2.70903E+05	216.40	-1.07805E+05	3.2177
1800.0	23.628	2.72085E+05	217.07	-1.18642E+05	3.4428
1850.0	23.602	2.73266E+05	217.72	-1.29512E+05	3.6567
1900.0	23.575	2.74445E+05	218.35	-1.40413E+05	3.8601
1950.0	23.548	2.75623E+05	218.96	-1.51346E+05	4.0540
2000.0	23.520	2.76800E+05	219.55	-1.62309E+05	4.2390
2050.0	23.506	2.77976E+05	220.14	-1.73301E+05	4.4157
2100.0	23.494	2.79151E+05	220.70	-1.84322E+05	4.5846
2150.0	23.485	2.80325E+05	221.25	-1.95371E+05	4.7465
2200.0	23.477	2.81499E+05	221.79	-2.06447E+05	4.9016
2250.0	23.472	2.82673E+05	222.32	-2.17550E+05	5.0504
2300.0	23.468	2.83847E+05	222.84	-2.28679E+05	5.1933
2350.0	23.465	2.85020E+05	223.34	-2.39834E+05	5.3308
2400.0	23.464	2.86193E+05	223.84	-2.51013E+05	5.4630
2450.0	23.464	2.87366E+05	224.32	-2.62217E+05	5.5904
2500.0	23.465	2.88539E+05	224.79	-2.73445E+05	5.7132
2550.0	23.467	2.89713E+05	225.26	-2.84696E+05	5.8316
2600.0	23.470	2.90886E+05	225.71	-2.95971E+05	5.9460
2650.0	23.473	2.92060E+05	226.16	-3.07268E+05	6.0565
2700.0	23.477	2.93234E+05	226.60	-3.18587E+05	6.1633
2750.0	23.482	2.94408E+05	227.03	-3.29928E+05	6.2666
2800.0	23.487	2.95582E+05	227.45	-3.41290E+05	6.3667
2850.0	23.493	2.96756E+05	227.87	-3.52673E+05	6.4636
2900.0	23.499	2.97931E+05	228.28	-3.64077E+05	6.5576
2950.0	23.505	2.99106E+05	228.68	-3.75501E+05	6.6487
3000.0	23.512	3.00282E+05	229.08	-3.86945E+05	6.7371

SeCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.545	-33472.	295.71	-1.21638E+05	21.310
300.00	53.600	-33373.	296.04	-1.22185E+05	21.274
350.00	54.771	-30661.	304.40	-1.37201E+05	20.476
400.00	55.533	-27903.	311.76	-1.52608E+05	19.928
450.00	56.058	-25112.	318.34	-1.68364E+05	19.543
500.00	56.435	-22299.	324.26	-1.84431E+05	19.267
550.00	56.716	-19470.	329.66	-2.00781E+05	19.068
600.00	56.932	-16629.	334.60	-2.17390E+05	18.925
650.00	57.101	-13778.	339.17	-2.34235E+05	18.823
700.00	57.236	-10919.	343.40	-2.51301E+05	18.752
750.00	57.347	-8054.4	347.36	-2.68571E+05	18.704
800.00	57.438	-5184.7	351.06	-2.86032E+05	18.676
850.00	57.516	-2310.8	354.54	-3.03673E+05	18.661
900.00	57.581	566.64	357.83	-3.21483E+05	18.658
950.00	57.638	3447.2	360.95	-3.39453E+05	18.664
1000.0	57.687	6330.3	363.91	-3.57575E+05	18.677
1050.0	57.731	9215.8	366.72	-3.75842E+05	18.697
1100.0	57.769	12103.	369.41	-3.94245E+05	18.721
1150.0	57.804	14993.	371.98	-4.12780E+05	18.749
1200.0	57.835	17884.	374.44	-4.31441E+05	18.780
1250.0	57.863	20776.	376.80	-4.50222E+05	18.813
1300.0	57.889	23670.	379.07	-4.69119E+05	18.849
1350.0	57.912	26565.	381.25	-4.88128E+05	18.886
1400.0	57.934	29461.	383.36	-5.07244E+05	18.925
1450.0	57.955	32358.	385.39	-5.26463E+05	18.965
1500.0	57.974	35257.	387.36	-5.45782E+05	19.005
1550.0	57.992	38156.	389.26	-5.65198E+05	19.047
1600.0	58.008	41056.	391.10	-5.84707E+05	19.088
1650.0	58.024	43956.	392.89	-6.04307E+05	19.130
1700.0	58.039	46858.	394.62	-6.23995E+05	19.173
1750.0	58.054	49760.	396.30	-6.43768E+05	19.215
1800.0	58.067	52663.	397.94	-6.63624E+05	19.257
1850.0	58.081	55567.	399.53	-6.83561E+05	19.300
1900.0	58.093	58472.	401.08	-7.03576E+05	19.342
1950.0	58.106	61376.	402.59	-7.23668E+05	19.384
2000.0	58.117	64282.	404.06	-7.43834E+05	19.426

Se2Br2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.661	29288.	378.13	-83453.	14.620
300.00	79.705	29435.	378.63	-84153.	14.652
350.00	80.664	33446.	390.99	-1.03400E+05	15.431
400.00	81.318	37497.	401.81	-1.23226E+05	16.091
450.00	81.795	41575.	411.41	-1.43561E+05	16.664
500.00	82.162	45674.	420.05	-1.64351E+05	17.169
550.00	82.458	49790.	427.90	-1.85553E+05	17.622
600.00	82.705	53919.	435.08	-2.07130E+05	18.032
650.00	82.917	58060.	441.71	-2.29052E+05	18.406
700.00	83.104	62211.	447.86	-2.51293E+05	18.751
750.00	83.273	66370.	453.60	-2.73831E+05	19.071
800.00	83.428	70538.	458.98	-2.96647E+05	19.369
850.00	83.572	74713.	464.04	-3.19724E+05	19.647
900.00	83.707	78895.	468.82	-3.43047E+05	19.909
950.00	83.836	83083.	473.35	-3.66602E+05	20.157
1000.0	83.959	87278.	477.66	-3.90379E+05	20.391
1050.0	84.078	91479.	481.76	-4.14365E+05	20.613
1100.0	84.193	95686.	485.67	-4.38551E+05	20.825
1150.0	84.305	99899.	489.42	-4.62929E+05	21.026
1200.0	84.415	1.04117E+05	493.01	-4.87490E+05	21.219
1250.0	84.522	1.08340E+05	496.45	-5.12227E+05	21.404
1300.0	84.628	1.12569E+05	499.77	-5.37133E+05	21.582
1350.0	84.732	1.16803E+05	502.97	-5.62202E+05	21.752
1400.0	84.834	1.21042E+05	506.05	-5.87428E+05	21.917
1450.0	84.936	1.25286E+05	509.03	-6.12805E+05	22.075
1500.0	85.037	1.29535E+05	511.91	-6.38329E+05	22.228
1550.0	85.136	1.33790E+05	514.70	-6.63995E+05	22.376
1600.0	85.235	1.38049E+05	517.40	-6.89798E+05	22.519
1650.0	85.334	1.42313E+05	520.03	-7.15734E+05	22.658
1700.0	85.431	1.46582E+05	522.58	-7.41800E+05	22.792
1750.0	85.528	1.50856E+05	525.06	-7.67991E+05	22.923
1800.0	85.625	1.55135E+05	527.47	-7.94304E+05	23.050
1850.0	85.721	1.59419E+05	529.81	-8.20736E+05	23.173
1900.0	85.817	1.63707E+05	532.10	-8.47284E+05	23.293
1950.0	85.913	1.68001E+05	534.33	-8.73945E+05	23.410
2000.0	86.008	1.72299E+05	536.51	-9.00717E+05	23.524

SeBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	55.418	-20920.	317.09	-1.15460E+05	20.228
300.00	55.452	-20817.	317.43	-1.16047E+05	20.205
350.00	56.165	-18026.	326.04	-1.32139E+05	19.720
400.00	56.628	-15205.	333.57	-1.48633E+05	19.409
450.00	56.946	-12365.	340.26	-1.65482E+05	19.208
500.00	57.175	-9511.9	346.27	-1.82648E+05	19.081
550.00	57.344	-6648.8	351.73	-2.00100E+05	19.003
600.00	57.474	-3778.2	356.72	-2.17813E+05	18.962
650.00	57.575	-901.84	361.33	-2.35766E+05	18.946
700.00	57.656	1979.0	365.60	-2.53940E+05	18.949
750.00	57.722	4863.5	369.58	-2.72321E+05	18.966
800.00	57.776	7751.0	373.31	-2.90894E+05	18.993
850.00	57.821	10641.	376.81	-3.09648E+05	19.028
900.00	57.860	13533.	380.12	-3.28571E+05	19.069
950.00	57.892	16427.	383.25	-3.47656E+05	19.115
1000.0	57.921	19322.	386.22	-3.66893E+05	19.164
1050.0	57.945	22219.	389.04	-3.86275E+05	19.216
1100.0	57.967	25117.	391.74	-4.05795E+05	19.269
1150.0	57.986	28016.	394.32	-4.25447E+05	19.324
1200.0	58.004	30915.	396.78	-4.45225E+05	19.380
1250.0	58.019	33816.	399.15	-4.65124E+05	19.436
1300.0	58.033	36717.	401.43	-4.85139E+05	19.493
1350.0	58.046	39619.	403.62	-5.05265E+05	19.549
1400.0	58.057	42522.	405.73	-5.25499E+05	19.606
1450.0	58.068	45425.	407.77	-5.45837E+05	19.663
1500.0	58.078	48329.	409.74	-5.66275E+05	19.719
1550.0	58.087	51233.	411.64	-5.86809E+05	19.775
1600.0	58.095	54137.	413.48	-6.07438E+05	19.830
1650.0	58.103	57042.	415.27	-6.28157E+05	19.885
1700.0	58.111	59947.	417.01	-6.48964E+05	19.940
1750.0	58.118	62853.	418.69	-6.69857E+05	19.994
1800.0	58.124	65759.	420.33	-6.90832E+05	20.047
1850.0	58.130	68666.	421.92	-7.11889E+05	20.100
1900.0	58.136	71572.	423.47	-7.33024E+05	20.152
1950.0	58.142	74479.	424.98	-7.54235E+05	20.203
2000.0	58.148	77387.	426.45	-7.75521E+05	20.254

Si

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.000	0.00000E+00	18.810	-5608.2	0.98251
300.00	20.055	37.051	18.934	-5643.1	0.98253
350.00	21.289	1072.7	22.124	-6670.8	0.99554
400.00	22.157	2159.9	25.027	-7850.7	1.0252
450.00	22.813	3284.9	27.676	-9169.3	1.0643
500.00	23.337	4439.0	30.107	-10615.	1.1089
550.00	23.774	5617.1	32.353	-12177.	1.1564
600.00	24.153	6815.5	34.438	-13847.	1.2055
650.00	24.491	8031.8	36.385	-15618.	1.2551
700.00	24.799	9264.1	38.211	-17484.	1.3046
750.00	25.085	10511.	39.932	-19438.	1.3537
800.00	25.354	11772.	41.560	-21475.	1.4022
850.00	25.610	13047.	43.105	-23592.	1.4498
900.00	25.856	14333.	44.575	-25785.	1.4965
950.00	26.094	15632.	45.980	-28049.	1.5422
1000.0	26.326	16942.	47.324	-30382.	1.5869
1050.0	26.552	18264.	48.614	-32780.	1.6307
1100.0	26.774	19598.	49.854	-35242.	1.6735
1150.0	26.992	20942.	51.049	-37765.	1.7153
1200.0	27.208	22297.	52.203	-40346.	1.7562
1250.0	27.421	23663.	53.318	-42985.	1.7962
1300.0	27.632	25039.	54.397	-45678.	1.8353
1350.0	27.842	26426.	55.444	-48424.	1.8736
1400.0	28.049	27823.	56.460	-51222.	1.9111
1450.0	28.256	29231.	57.448	-54069.	1.9477
1500.0	28.461	30649.	58.410	-56966.	1.9837
1550.0	28.666	32077.	59.346	-59910.	2.0189
1600.0	28.870	33515.	60.260	-62900.	2.0534
1650.0	29.073	34964.	61.151	-65936.	2.0873
1687.0	29.222	36042.	61.797	-68210.	2.1119
1687.0	27.196	86250.	91.559	-68210.	2.1119
1700.0	27.196	86604.	91.768	-69402.	2.1324
1750.0	27.196	87964.	92.556	-74010.	2.2090
1800.0	27.196	89323.	93.322	-78657.	2.2825
1850.0	27.196	90683.	94.068	-83342.	2.3531
1900.0	27.196	92043.	94.793	-88063.	2.4210
1950.0	27.196	93403.	95.499	-92821.	2.4863
2000.0	27.196	94763.	96.188	-97613.	2.5493
2050.0	27.196	96122.	96.859	-1.02439E+05	2.6101
2100.0	27.196	97482.	97.515	-1.07299E+05	2.6688
2150.0	27.196	98842.	98.155	-1.12191E+05	2.7256
2200.0	27.196	1.00202E+05	98.780	-1.17114E+05	2.7806
2250.0	27.196	1.01562E+05	99.391	-1.22068E+05	2.8338
2300.0	27.196	1.02921E+05	99.989	-1.27053E+05	2.8854
2350.0	27.196	1.04281E+05	100.57	-1.32067E+05	2.9354
2400.0	27.196	1.05641E+05	101.15	-1.37110E+05	2.9840
2450.0	27.196	1.07001E+05	101.71	-1.42181E+05	3.0313
2500.0	27.196	1.08361E+05	102.26	-1.47281E+05	3.0772
2550.0	27.196	1.09720E+05	102.79	-1.52407E+05	3.1218
2600.0	27.196	1.11080E+05	103.32	-1.57560E+05	3.1653
2650.0	27.196	1.12440E+05	103.84	-1.62739E+05	3.2077
2700.0	27.196	1.13800E+05	104.35	-1.67944E+05	3.2490
2750.0	27.196	1.15160E+05	104.85	-1.73174E+05	3.2893
2800.0	27.196	1.16519E+05	105.34	-1.78429E+05	3.3285
2850.0	27.196	1.17879E+05	105.82	-1.83708E+05	3.3669
2900.0	27.196	1.19239E+05	106.29	-1.89010E+05	3.4044
2950.0	27.196	1.20599E+05	106.76	-1.94337E+05	3.4410
3000.0	27.196	1.21959E+05	107.21	-1.99686E+05	3.4768

Si<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	22.257	4.50000E+05	167.98	3.99917E+05	-70.062
300.00	22.239	4.50041E+05	168.12	3.99606E+05	-69.576
350.00	21.856	4.51143E+05	171.51	3.91113E+05	-58.369
400.00	21.603	4.52229E+05	174.41	3.82463E+05	-49.943
450.00	21.428	4.53304E+05	176.95	3.73678E+05	-43.374
500.00	21.302	4.54372E+05	179.20	3.64773E+05	-38.107
550.00	21.209	4.55435E+05	181.22	3.55761E+05	-33.787
600.00	21.139	4.56494E+05	183.07	3.46653E+05	-30.178
650.00	21.087	4.57549E+05	184.76	3.37457E+05	-27.118
700.00	21.048	4.58603E+05	186.32	3.28180E+05	-24.488
750.00	21.020	4.59654E+05	187.77	3.18827E+05	-22.205
800.00	21.000	4.60705E+05	189.13	3.09405E+05	-20.202
850.00	20.989	4.61754E+05	190.40	2.99916E+05	-18.430
900.00	20.983	4.62804E+05	191.60	2.90366E+05	-16.852
950.00	20.984	4.63853E+05	192.73	2.80757E+05	-15.437
1000.0	20.989	4.64902E+05	193.81	2.71094E+05	-14.160
1050.0	21.000	4.65952E+05	194.83	2.61378E+05	-13.002
1100.0	21.014	4.67002E+05	195.81	2.51611E+05	-11.948
1150.0	21.034	4.68053E+05	196.74	2.41797E+05	-10.982
1200.0	21.057	4.69106E+05	197.64	2.31937E+05	-10.096
1250.0	21.083	4.70159E+05	198.50	2.22034E+05	-9.2781
1300.0	21.114	4.71214E+05	199.33	2.12088E+05	-8.5216
1350.0	21.148	4.72271E+05	200.13	2.02102E+05	-7.8196
1400.0	21.186	4.73329E+05	200.89	1.92076E+05	-7.1663
1450.0	21.227	4.74389E+05	201.64	1.82012E+05	-6.5566
1500.0	21.271	4.75452E+05	202.36	1.71912E+05	-5.9864
1550.0	21.318	4.76516E+05	203.06	1.61777E+05	-5.4517
1600.0	21.369	4.77583E+05	203.74	1.51607E+05	-4.9493
1650.0	21.423	4.78653E+05	204.39	1.41404E+05	-4.4764
1700.0	21.481	4.79726E+05	205.03	1.31168E+05	-4.0302
1750.0	21.541	4.80801E+05	205.66	1.20901E+05	-3.6086
1800.0	21.604	4.81880E+05	206.27	1.10602E+05	-3.2095
1850.0	21.671	4.82962E+05	206.86	1.00274E+05	-2.8312
1900.0	21.741	4.84047E+05	207.44	89917.	-2.4719
1950.0	21.813	4.85136E+05	208.00	79531.	-2.1303
2000.0	21.888	4.86229E+05	208.56	69117.	-1.8051
2050.0	21.965	4.87325E+05	209.10	58675.	-1.4950
2100.0	22.037	4.88425E+05	209.63	48207.	-1.1991
2150.0	22.105	4.89529E+05	210.15	37713.	-0.91622
2200.0	22.168	4.90635E+05	210.66	27193.	-0.64562
2250.0	22.228	4.91745E+05	211.15	16647.	-0.38647
2300.0	22.284	4.92858E+05	211.64	6077.5	-0.13802
2350.0	22.336	4.93974E+05	212.12	-4516.8	0.10039
2400.0	22.386	4.95092E+05	212.59	-15135.	0.32939
2450.0	22.433	4.96212E+05	213.06	-25776.	0.54954
2500.0	22.477	4.97335E+05	213.51	-36440.	0.76136
2550.0	22.519	4.98460E+05	213.96	-47127.	0.96533
2600.0	22.558	4.99587E+05	214.39	-57836.	1.1619
2650.0	22.595	5.00716E+05	214.82	-68566.	1.3515
2700.0	22.630	5.01846E+05	215.25	-79318.	1.5345
2750.0	22.664	5.02979E+05	215.66	-90091.	1.7112
2800.0	22.695	5.04113E+05	216.07	-1.00884E+05	1.8820
2850.0	22.725	5.05248E+05	216.47	-1.11698E+05	2.0471
2900.0	22.753	5.06385E+05	216.87	-1.22531E+05	2.2070
2950.0	22.780	5.07524E+05	217.26	-1.33384E+05	2.3617
3000.0	22.806	5.08663E+05	217.64	-1.44257E+05	2.5117

SiCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	51.249	-1.63069E+05	281.61	-2.47032E+05	43.278
300.00	51.324	-1.62974E+05	281.93	-2.47553E+05	43.102
350.00	52.934	-1.60365E+05	289.97	-2.61855E+05	39.079
400.00	54.007	-1.57690E+05	297.11	-2.76535E+05	36.111
450.00	54.765	-1.54969E+05	303.52	-2.91554E+05	33.842
500.00	55.327	-1.52216E+05	309.32	-3.06877E+05	32.058
550.00	55.759	-1.49439E+05	314.62	-3.22477E+05	30.626
600.00	56.101	-1.46642E+05	319.48	-3.38332E+05	29.454
650.00	56.379	-1.43830E+05	323.98	-3.54420E+05	28.481
700.00	56.609	-1.41005E+05	328.17	-3.70725E+05	27.663
750.00	56.802	-1.38169E+05	332.08	-3.87232E+05	26.969
800.00	56.966	-1.35325E+05	335.76	-4.03929E+05	26.373
850.00	57.107	-1.32473E+05	339.21	-4.20804E+05	25.859
900.00	57.229	-1.29615E+05	342.48	-4.37847E+05	25.411
950.00	57.335	-1.26751E+05	345.58	-4.55049E+05	25.020
1000.0	57.427	-1.23881E+05	348.52	-4.72402E+05	24.675
1050.0	57.508	-1.21008E+05	351.32	-4.89899E+05	24.371
1100.0	57.578	-1.18131E+05	354.00	-5.07533E+05	24.100
1150.0	57.638	-1.15250E+05	356.56	-5.25297E+05	23.859
1200.0	57.690	-1.12367E+05	359.02	-5.43187E+05	23.644
1250.0	57.734	-1.09482E+05	361.37	-5.61197E+05	23.451
1300.0	57.770	-1.06594E+05	363.64	-5.79323E+05	23.277
1350.0	57.800	-1.03705E+05	365.82	-5.97560E+05	23.120
1400.0	57.823	-1.00814E+05	367.92	-6.15904E+05	22.979
1450.0	57.840	-97922.	369.95	-6.34351E+05	22.851
1500.0	57.851	-95030.	371.91	-6.52898E+05	22.735
1550.0	57.873	-92137.	373.81	-6.71541E+05	22.630
1600.0	57.893	-89243.	375.65	-6.90277E+05	22.535
1650.0	57.911	-86348.	377.43	-7.09105E+05	22.448
1700.0	57.928	-83452.	379.16	-7.28019E+05	22.369
1750.0	57.943	-80555.	380.84	-7.47019E+05	22.297
1800.0	57.957	-77657.	382.47	-7.66102E+05	22.231
1850.0	57.970	-74759.	384.06	-7.85266E+05	22.171
1900.0	57.982	-71861.	385.60	-8.04507E+05	22.117
1950.0	57.993	-68961.	387.11	-8.23825E+05	22.067
2000.0	58.003	-66061.	388.58	-8.43218E+05	22.022
2050.0	58.013	-63161.	390.01	-8.62683E+05	21.981
2100.0	58.021	-60260.	391.41	-8.82218E+05	21.943
2150.0	58.030	-57359.	392.77	-9.01823E+05	21.909
2200.0	58.037	-54457.	394.11	-9.21495E+05	21.879
2250.0	58.044	-51555.	395.41	-9.41233E+05	21.851
2300.0	58.051	-48653.	396.69	-9.61036E+05	21.825
2350.0	58.057	-45750.	397.94	-9.80902E+05	21.802
2400.0	58.063	-42847.	399.16	-1.00083E+06	21.782
2450.0	58.069	-39944.	400.36	-1.02082E+06	21.764
2500.0	58.074	-37040.	401.53	-1.04086E+06	21.747
2550.0	58.079	-34136.	402.68	-1.06097E+06	21.733
2600.0	58.084	-31232.	403.81	-1.08113E+06	21.720
2650.0	58.088	-28328.	404.91	-1.10135E+06	21.708
2700.0	58.092	-25423.	406.00	-1.12162E+06	21.699
2750.0	58.096	-22519.	407.07	-1.14195E+06	21.690
2800.0	58.100	-19614.	408.11	-1.16233E+06	21.683
2850.0	58.103	-16709.	409.14	-1.18276E+06	21.677
2900.0	58.106	-13803.	410.15	-1.20324E+06	21.672
2950.0	58.110	-10898.	411.14	-1.22378E+06	21.668
3000.0	58.113	-7992.4	412.12	-1.24436E+06	21.666

SiBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	53.536	-51000.	304.71	-1.41851E+05	24.851
300.00	53.592	-50901.	305.05	-1.42415E+05	24.796
350.00	54.779	-48189.	313.40	-1.57881E+05	23.562
400.00	55.551	-45430.	320.77	-1.73739E+05	22.687
450.00	56.082	-42638.	327.35	-1.89945E+05	22.048
500.00	56.462	-39824.	333.28	-2.06463E+05	21.568
550.00	56.745	-36994.	338.67	-2.23264E+05	21.203
600.00	56.961	-34151.	343.62	-2.40323E+05	20.921
650.00	57.130	-31298.	348.19	-2.57619E+05	20.702
700.00	57.264	-28438.	352.42	-2.75136E+05	20.530
750.00	57.374	-25572.	356.38	-2.92857E+05	20.396
800.00	57.464	-22701.	360.09	-3.10770E+05	20.291
850.00	57.539	-19826.	363.57	-3.28862E+05	20.209
900.00	57.603	-16948.	366.86	-3.47123E+05	20.146
950.00	57.657	-14066.	369.98	-3.65545E+05	20.099
1000.0	57.704	-11182.	372.94	-3.84119E+05	20.064
1050.0	57.745	-8295.7	375.75	-4.02836E+05	20.040
1100.0	57.781	-5407.5	378.44	-4.21692E+05	20.024
1150.0	57.812	-2517.7	381.01	-4.40678E+05	20.016
1200.0	57.840	373.63	383.47	-4.59791E+05	20.014
1250.0	57.865	3266.3	385.83	-4.79024E+05	20.017
1300.0	57.888	6160.1	388.10	-4.98373E+05	20.024
1350.0	57.908	9055.0	390.29	-5.17833E+05	20.036
1400.0	57.927	11951.	392.39	-5.37400E+05	20.050
1450.0	57.943	14848.	394.43	-5.57071E+05	20.067
1500.0	57.959	17745.	396.39	-5.76841E+05	20.087
1550.0	57.973	20644.	398.29	-5.96709E+05	20.108
1600.0	57.986	23543.	400.13	-6.16670E+05	20.132
1650.0	57.998	26442.	401.92	-6.36721E+05	20.156
1700.0	58.010	29342.	403.65	-6.56860E+05	20.182
1750.0	58.020	32243.	405.33	-6.77085E+05	20.209
1800.0	58.030	35144.	406.96	-6.97393E+05	20.237
1850.0	58.039	38046.	408.56	-7.17781E+05	20.266
1900.0	58.048	40948.	410.10	-7.38248E+05	20.295
1950.0	58.056	43851.	411.61	-7.58791E+05	20.325
2000.0	58.063	46754.	413.08	-7.79408E+05	20.356
2050.0	58.070	49657.	414.51	-8.00098E+05	20.386
2100.0	58.077	52561.	415.91	-8.20859E+05	20.417
2150.0	58.083	55465.	417.28	-8.41689E+05	20.448
2200.0	58.089	58369.	418.62	-8.62586E+05	20.480
2250.0	58.095	61274.	419.92	-8.83550E+05	20.511
2300.0	58.101	64179.	421.20	-9.04578E+05	20.543
2350.0	58.106	67084.	422.45	-9.25669E+05	20.575
2400.0	58.111	69989.	423.67	-9.46823E+05	20.607
2450.0	58.115	72895.	424.87	-9.68036E+05	20.638
2500.0	58.120	75801.	426.04	-9.89309E+05	20.670
2550.0	58.124	78707.	427.19	-1.01064E+06	20.702
2600.0	58.128	81613.	428.32	-1.03203E+06	20.733
2650.0	58.132	84520.	429.43	-1.05347E+06	20.765
2700.0	58.136	87426.	430.52	-1.07497E+06	20.796
2750.0	58.139	90333.	431.58	-1.09652E+06	20.827
2800.0	58.142	93240.	432.63	-1.11813E+06	20.858
2850.0	58.146	96147.	433.66	-1.13979E+06	20.889
2900.0	58.149	99055.	434.67	-1.16149E+06	20.920
2950.0	58.151	1.01962E+05	435.67	-1.18325E+06	20.951
3000.0	58.154	1.04870E+05	436.64	-1.20506E+06	20.981

SiBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	75.179	-1.57000E+05	351.32	-2.61746E+05	45.856
300.00	75.272	-1.56861E+05	351.78	-2.62396E+05	45.686
350.00	77.251	-1.53044E+05	363.55	-2.80286E+05	41.829
400.00	78.544	-1.49147E+05	373.95	-2.98728E+05	39.009
450.00	79.437	-1.45196E+05	383.26	-3.17663E+05	36.872
500.00	80.082	-1.41207E+05	391.66	-3.37039E+05	35.209
550.00	80.564	-1.37191E+05	399.32	-3.56817E+05	33.887
600.00	80.936	-1.33153E+05	406.35	-3.76961E+05	32.817
650.00	81.229	-1.29098E+05	412.84	-3.97442E+05	31.938
700.00	81.465	-1.25031E+05	418.87	-4.18237E+05	31.208
750.00	81.659	-1.20953E+05	424.49	-4.39322E+05	30.596
800.00	81.821	-1.16866E+05	429.77	-4.60680E+05	30.079
850.00	81.957	-1.12771E+05	434.73	-4.82294E+05	29.637
900.00	82.074	-1.08670E+05	439.42	-5.04149E+05	29.259
950.00	82.175	-1.04564E+05	443.86	-5.26232E+05	28.934
1000.0	82.263	-1.00453E+05	448.08	-5.48531E+05	28.652
1050.0	82.341	-96338.	452.09	-5.71036E+05	28.407
1100.0	82.410	-92219.	455.93	-5.93738E+05	28.194
1150.0	82.471	-88097.	459.59	-6.16626E+05	28.007
1200.0	82.526	-83972.	463.10	-6.39694E+05	27.844
1250.0	82.575	-79844.	466.47	-6.62934E+05	27.702
1300.0	82.620	-75714.	469.71	-6.86339E+05	27.577
1350.0	82.661	-71582.	472.83	-7.09903E+05	27.467
1400.0	82.698	-67448.	475.84	-7.33620E+05	27.371
1450.0	82.732	-63313.	478.74	-7.57485E+05	27.287
1500.0	82.764	-59175.	481.54	-7.81493E+05	27.213
1550.0	82.792	-55036.	484.26	-8.05638E+05	27.149
1600.0	82.818	-50896.	486.89	-8.29917E+05	27.093
1650.0	82.843	-46755.	489.44	-8.54325E+05	27.045
1700.0	82.865	-42612.	491.91	-8.78859E+05	27.003
1750.0	82.885	-38468.	494.31	-9.03515E+05	26.968
1800.0	82.904	-34323.	496.65	-9.28290E+05	26.938
1850.0	82.921	-30178.	498.92	-9.53179E+05	26.912
1900.0	82.937	-26031.	501.13	-9.78181E+05	26.891
1950.0	82.951	-21884.	503.29	-1.00329E+06	26.874
2000.0	82.964	-17736.	505.39	-1.02851E+06	26.861
2050.0	82.976	-13588.	507.43	-1.05383E+06	26.851
2100.0	82.987	-9438.5	509.43	-1.07925E+06	26.844
2150.0	82.997	-5288.9	511.39	-1.10477E+06	26.840
2200.0	83.005	-1138.8	513.30	-1.13039E+06	26.838
2250.0	83.013	3011.6	515.16	-1.15610E+06	26.839
2300.0	83.019	7162.4	516.99	-1.18190E+06	26.841
2350.0	83.025	11314.	518.77	-1.20780E+06	26.846
2400.0	83.029	15465.	520.52	-1.23378E+06	26.852
2450.0	83.033	19616.	522.23	-1.25985E+06	26.860
2500.0	83.036	23768.	523.91	-1.28600E+06	26.869
2550.0	83.038	27920.	525.55	-1.31224E+06	26.879
2600.0	83.039	32072.	527.17	-1.33856E+06	26.891
2650.0	83.040	36224.	528.75	-1.36496E+06	26.904
2700.0	83.039	40376.	530.30	-1.39143E+06	26.918
2750.0	83.038	44528.	531.82	-1.41799E+06	26.933
2800.0	83.037	48680.	533.32	-1.44461E+06	26.949
2850.0	83.041	52832.	534.79	-1.47132E+06	26.966
2900.0	83.044	56984.	536.23	-1.49809E+06	26.983
2950.0	83.048	61136.	537.65	-1.52494E+06	27.001
3000.0	83.051	65288.	539.05	-1.55186E+06	27.020

SiBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	96.951	-4.15800E+05	379.37	-5.28909E+05	92.660
300.00	97.075	-4.15621E+05	379.97	-5.29611E+05	92.211
350.00	99.749	-4.10695E+05	395.15	-5.48997E+05	81.931
400.00	101.51	-4.05661E+05	408.59	-5.69097E+05	74.315
450.00	102.74	-4.00553E+05	420.62	-5.89832E+05	68.464
500.00	103.63	-3.95393E+05	431.49	-6.11140E+05	63.844
550.00	104.31	-3.90193E+05	441.40	-6.32966E+05	60.113
600.00	104.84	-3.84964E+05	450.50	-6.55267E+05	57.045
650.00	105.26	-3.79711E+05	458.91	-6.78005E+05	54.484
700.00	105.61	-3.74439E+05	466.73	-7.01148E+05	52.319
750.00	105.90	-3.69151E+05	474.02	-7.24669E+05	50.469
800.00	106.14	-3.63850E+05	480.87	-7.48543E+05	48.874
850.00	106.35	-3.58538E+05	487.31	-7.72749E+05	47.486
900.00	106.53	-3.53216E+05	493.39	-7.97268E+05	46.271
950.00	106.69	-3.47885E+05	499.16	-8.22083E+05	45.200
1000.0	106.82	-3.42547E+05	504.63	-8.47179E+05	44.251
1050.0	106.95	-3.37203E+05	509.85	-8.72542E+05	43.405
1100.0	107.05	-3.31853E+05	514.82	-8.98159E+05	42.649
1150.0	107.15	-3.26498E+05	519.58	-9.24020E+05	41.969
1200.0	107.24	-3.21138E+05	524.15	-9.50114E+05	41.356
1250.0	107.32	-3.15774E+05	528.53	-9.76432E+05	40.802
1300.0	107.39	-3.10406E+05	532.74	-1.00296E+06	40.299
1350.0	107.45	-3.05036E+05	536.79	-1.02970E+06	39.841
1400.0	107.50	-2.99662E+05	540.70	-1.05664E+06	39.423
1450.0	107.55	-2.94285E+05	544.47	-1.08377E+06	39.041
1500.0	107.60	-2.88907E+05	548.12	-1.11109E+06	38.690
1550.0	107.63	-2.83526E+05	551.65	-1.13858E+06	38.369
1600.0	107.67	-2.78143E+05	555.07	-1.16625E+06	38.073
1650.0	107.70	-2.72759E+05	558.38	-1.19409E+06	37.801
1700.0	107.72	-2.67374E+05	561.59	-1.22209E+06	37.549
1750.0	107.74	-2.61988E+05	564.72	-1.25024E+06	37.317
1800.0	107.75	-2.56600E+05	567.75	-1.27856E+06	37.102
1850.0	107.77	-2.51212E+05	570.71	-1.30702E+06	36.903
1900.0	107.77	-2.45824E+05	573.58	-1.33562E+06	36.718
1950.0	107.78	-2.40435E+05	576.38	-1.36437E+06	36.547
2000.0	107.78	-2.35046E+05	579.11	-1.39326E+06	36.387
2050.0	107.79	-2.29656E+05	581.77	-1.42228E+06	36.239
2100.0	107.81	-2.24266E+05	584.37	-1.45144E+06	36.102
2150.0	107.82	-2.18876E+05	586.90	-1.48072E+06	35.973
2200.0	107.83	-2.13484E+05	589.38	-1.51013E+06	35.854
2250.0	107.84	-2.08092E+05	591.81	-1.53966E+06	35.743
2300.0	107.85	-2.02700E+05	594.18	-1.56931E+06	35.639
2350.0	107.86	-1.97307E+05	596.50	-1.59907E+06	35.543
2400.0	107.87	-1.91913E+05	598.77	-1.62896E+06	35.452
2450.0	107.88	-1.86519E+05	600.99	-1.65895E+06	35.368
2500.0	107.89	-1.81125E+05	603.17	-1.68905E+06	35.290
2550.0	107.90	-1.75730E+05	605.31	-1.71927E+06	35.217
2600.0	107.91	-1.70335E+05	607.40	-1.74958E+06	35.149
2650.0	107.91	-1.64940E+05	609.46	-1.78001E+06	35.085
2700.0	107.92	-1.59544E+05	611.48	-1.81053E+06	35.026
2750.0	107.92	-1.54148E+05	613.46	-1.84115E+06	34.971
2800.0	107.93	-1.48752E+05	615.40	-1.87187E+06	34.919
2850.0	107.94	-1.43355E+05	617.31	-1.90269E+06	34.872
2900.0	107.94	-1.37958E+05	619.19	-1.93361E+06	34.827
2950.0	107.95	-1.32561E+05	621.03	-1.96461E+06	34.786
3000.0	107.95	-1.27164E+05	622.85	-1.99571E+06	34.747

SiH₂Cl₂<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	62.070	-3.13800E+05	286.70	-3.99281E+05	69.951
300.00	62.279	-3.13685E+05	287.09	-3.99812E+05	69.612
350.00	67.309	-3.10441E+05	297.08	-4.14419E+05	61.847
400.00	71.452	-3.06969E+05	306.35	-4.29508E+05	56.087
450.00	74.978	-3.03306E+05	314.97	-4.45043E+05	51.658
500.00	78.029	-2.99479E+05	323.03	-4.60996E+05	48.159
550.00	80.686	-2.95509E+05	330.60	-4.77339E+05	45.333
600.00	82.998	-2.91416E+05	337.72	-4.94048E+05	43.010
650.00	85.088	-2.87213E+05	344.45	-5.11104E+05	41.072
700.00	86.935	-2.82911E+05	350.82	-5.28487E+05	39.435
750.00	88.588	-2.78522E+05	356.88	-5.46181E+05	38.038
800.00	90.077	-2.74055E+05	362.64	-5.64170E+05	36.836
850.00	91.427	-2.69517E+05	368.15	-5.82441E+05	35.792
900.00	92.654	-2.64915E+05	373.41	-6.00981E+05	34.879
950.00	93.772	-2.60253E+05	378.45	-6.19778E+05	34.077
1000.0	94.791	-2.55539E+05	383.28	-6.38822E+05	33.368
1050.0	95.716	-2.50776E+05	387.93	-6.58103E+05	32.738
1100.0	96.555	-2.45969E+05	392.40	-6.77612E+05	32.176
1150.0	97.311	-2.41122E+05	396.71	-6.97341E+05	31.673
1200.0	97.989	-2.36239E+05	400.87	-7.17281E+05	31.222
1250.0	98.647	-2.31323E+05	404.88	-7.37425E+05	30.815
1300.0	99.239	-2.26375E+05	408.76	-7.57767E+05	30.447
1350.0	99.774	-2.21400E+05	412.52	-7.78300E+05	30.113
1400.0	100.26	-2.16399E+05	416.16	-7.99017E+05	29.811
1450.0	100.71	-2.11374E+05	419.68	-8.19913E+05	29.536
1500.0	101.11	-2.06329E+05	423.10	-8.40983E+05	29.285
1550.0	101.49	-2.01264E+05	426.42	-8.62222E+05	29.056
1600.0	101.83	-1.96181E+05	429.65	-8.83624E+05	28.847
1650.0	102.15	-1.91081E+05	432.79	-9.05186E+05	28.655
1700.0	102.45	-1.85966E+05	435.84	-9.26902E+05	28.480
1750.0	102.72	-1.80837E+05	438.82	-9.48769E+05	28.318
1800.0	102.98	-1.75694E+05	441.72	-9.70782E+05	28.171
1850.0	103.22	-1.70539E+05	444.54	-9.92939E+05	28.035
1900.0	103.45	-1.65372E+05	447.30	-1.01524E+06	27.910
1950.0	103.66	-1.60195E+05	449.99	-1.03767E+06	27.795
2000.0	103.85	-1.55007E+05	452.61	-1.06023E+06	27.690
2050.0	104.04	-1.49809E+05	455.18	-1.08293E+06	27.593
2100.0	104.22	-1.44603E+05	457.69	-1.10575E+06	27.503
2150.0	104.38	-1.39388E+05	460.14	-1.12870E+06	27.421
2200.0	104.54	-1.34165E+05	462.54	-1.15176E+06	27.346
2250.0	104.69	-1.28934E+05	464.90	-1.17495E+06	27.276
2300.0	104.83	-1.23697E+05	467.20	-1.19825E+06	27.212
2350.0	104.96	-1.18452E+05	469.45	-1.22167E+06	27.154
2400.0	105.08	-1.13201E+05	471.66	-1.24520E+06	27.100
2450.0	105.20	-1.07944E+05	473.83	-1.26883E+06	27.051
2500.0	105.31	-1.02681E+05	475.96	-1.29258E+06	27.006
2550.0	105.42	-97413.	478.05	-1.31643E+06	26.965
2600.0	105.52	-92139.	480.09	-1.34038E+06	26.928
2650.0	105.61	-86861.	482.10	-1.36444E+06	26.894
2700.0	105.70	-81578.	484.08	-1.38859E+06	26.863
2750.0	105.78	-76291.	486.02	-1.41285E+06	26.836
2800.0	105.86	-71000.	487.93	-1.43719E+06	26.811
2850.0	105.94	-65705.	489.80	-1.46164E+06	26.788
2900.0	106.01	-60406.	491.64	-1.48617E+06	26.768
2950.0	106.08	-55104.	493.46	-1.51080E+06	26.751
3000.0	106.14	-49799.	495.24	-1.53552E+06	26.735

SiH3Cl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	49.964	-2.00832E+05	250.73	-2.75587E+05	48.281
300.00	50.299	-2.00739E+05	251.04	-2.76052E+05	48.064
350.00	57.727	-1.98027E+05	259.39	-2.88813E+05	43.102
400.00	63.022	-1.95002E+05	267.46	-3.01986E+05	39.434
450.00	67.064	-1.91745E+05	275.13	-3.15552E+05	36.627
500.00	70.316	-1.88308E+05	282.37	-3.29491E+05	34.421
550.00	73.039	-1.84723E+05	289.20	-3.43782E+05	32.649
600.00	75.392	-1.81010E+05	295.66	-3.58405E+05	31.201
650.00	77.475	-1.77188E+05	301.78	-3.73342E+05	30.001
700.00	79.352	-1.73266E+05	307.59	-3.88577E+05	28.995
750.00	81.068	-1.69255E+05	313.12	-4.04096E+05	28.143
800.00	82.655	-1.65162E+05	318.40	-4.19885E+05	27.415
850.00	84.134	-1.60992E+05	323.46	-4.35933E+05	26.788
900.00	85.521	-1.56750E+05	328.31	-4.52228E+05	26.246
950.00	86.828	-1.52441E+05	332.97	-4.68760E+05	25.774
1000.0	88.065	-1.48068E+05	337.45	-4.85522E+05	25.360
1050.0	89.239	-1.43635E+05	341.78	-5.02503E+05	24.998
1100.0	90.354	-1.39145E+05	345.96	-5.19697E+05	24.678
1150.0	91.415	-1.34601E+05	350.00	-5.37096E+05	24.395
1200.0	92.426	-1.30005E+05	353.91	-5.54695E+05	24.145
1250.0	93.389	-1.25359E+05	357.70	-5.72485E+05	23.922
1300.0	94.307	-1.20667E+05	361.38	-5.90463E+05	23.724
1350.0	95.181	-1.15929E+05	364.96	-6.08622E+05	23.548
1400.0	96.012	-1.11149E+05	368.43	-6.26957E+05	23.391
1450.0	96.803	-1.06329E+05	371.82	-6.45464E+05	23.252
1500.0	97.554	-1.01469E+05	375.11	-6.64137E+05	23.127
1550.0	98.266	-96574.	378.32	-6.82973E+05	23.015
1600.0	98.939	-91644.	381.45	-7.01968E+05	22.916
1650.0	99.575	-86680.	384.51	-7.21117E+05	22.828
1700.0	100.17	-81687.	387.49	-7.40417E+05	22.750
1750.0	100.74	-76664.	390.40	-7.59865E+05	22.680
1800.0	101.26	-71614.	393.25	-7.79456E+05	22.619
1850.0	101.75	-66538.	396.03	-7.99189E+05	22.564
1900.0	102.21	-61439.	398.75	-8.19058E+05	22.517
1950.0	102.63	-56318.	401.41	-8.39062E+05	22.475
2000.0	103.01	-51177.	404.01	-8.59198E+05	22.439
2050.0	103.36	-46018.	406.56	-8.79462E+05	22.408
2100.0	103.67	-40842.	409.05	-8.99853E+05	22.382
2150.0	103.95	-35651.	411.50	-9.20367E+05	22.360
2200.0	104.20	-30447.	413.89	-9.41002E+05	22.342
2250.0	104.41	-25232.	416.23	-9.61755E+05	22.327
2300.0	104.58	-20007.	418.53	-9.82624E+05	22.316
2350.0	104.73	-14774.	420.78	-1.00361E+06	22.307
2400.0	104.84	-9534.8	422.99	-1.02470E+06	22.301
2450.0	104.91	-4291.0	425.15	-1.04590E+06	22.298
2500.0	104.95	955.66	427.27	-1.06722E+06	22.298
2550.0	104.96	6203.5	429.35	-1.08863E+06	22.299
2600.0	104.93	11451.	431.38	-1.11015E+06	22.303
2650.0	104.87	16696.	433.38	-1.13177E+06	22.308
2700.0	104.78	21937.	435.34	-1.15349E+06	22.315
2750.0	104.65	27173.	437.26	-1.17530E+06	22.324
2800.0	104.49	32402.	439.15	-1.19721E+06	22.334
2850.0	104.29	37621.	441.00	-1.21922E+06	22.345
2900.0	104.07	42831.	442.81	-1.24131E+06	22.358
2950.0	103.80	48027.	444.58	-1.26350E+06	22.372
3000.0	103.51	53210.	446.33	-1.28577E+06	22.387

Si2C<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	45.320	5.54098E+05	261.89	4.76014E+05	-83.394
300.00	45.395	5.54182E+05	262.18	4.75529E+05	-82.795
350.00	47.171	5.56498E+05	269.31	4.62239E+05	-68.984
400.00	48.594	5.58893E+05	275.71	4.48610E+05	-58.581
450.00	49.782	5.61353E+05	281.50	4.34678E+05	-50.455
500.00	50.800	5.63869E+05	286.80	4.20468E+05	-43.925
550.00	51.682	5.66431E+05	291.68	4.06005E+05	-38.558
600.00	52.451	5.69035E+05	296.22	3.91306E+05	-34.065
650.00	53.119	5.71675E+05	300.44	3.76388E+05	-30.246
700.00	53.697	5.74345E+05	304.40	3.61266E+05	-26.957
750.00	54.189	5.77043E+05	308.12	3.45952E+05	-24.094
800.00	54.598	5.79763E+05	311.63	3.30458E+05	-21.576
850.00	54.981	5.82503E+05	314.95	3.14792E+05	-19.344
900.00	55.304	5.85260E+05	318.11	2.98965E+05	-17.351
950.00	55.578	5.88032E+05	321.10	2.82984E+05	-15.559
1000.0	55.813	5.90817E+05	323.96	2.66857E+05	-13.939
1050.0	56.016	5.93613E+05	326.69	2.50591E+05	-12.466
1100.0	56.192	5.96418E+05	329.30	2.34190E+05	-11.120
1150.0	56.347	5.99232E+05	331.80	2.17663E+05	-9.8863
1200.0	56.484	6.02053E+05	334.20	2.01012E+05	-8.7496
1250.0	56.606	6.04880E+05	336.51	1.84244E+05	-7.6989
1300.0	56.714	6.07713E+05	338.73	1.67363E+05	-6.7245
1350.0	56.811	6.10551E+05	340.87	1.50372E+05	-5.8181
1400.0	56.898	6.13394E+05	342.94	1.33277E+05	-4.9725
1450.0	56.978	6.16241E+05	344.94	1.16079E+05	-4.1815
1500.0	57.049	6.19092E+05	346.87	98784.	-3.4399
1550.0	57.115	6.21946E+05	348.74	81393.	-2.7429
1600.0	57.175	6.24803E+05	350.56	63910.	-2.0864
1650.0	57.230	6.27663E+05	352.32	46338.	-1.4669
1700.0	57.280	6.30526E+05	354.03	28680.	-0.88119
1750.0	57.327	6.33391E+05	355.69	10936.	-0.32643
1800.0	57.370	6.36259E+05	357.30	-6888.5	0.19990
1850.0	57.411	6.39128E+05	358.88	-24793.	0.70002
1900.0	57.448	6.42000E+05	360.41	-42776.	1.1760
1950.0	57.483	6.44873E+05	361.90	-60833.	1.6295
2000.0	57.515	6.47748E+05	363.36	-78965.	2.0623
2050.0	57.546	6.50624E+05	364.78	-97168.	2.4758
2100.0	57.574	6.53502E+05	366.16	-1.15442E+05	2.8714
2150.0	57.601	6.56382E+05	367.52	-1.33784E+05	3.2502
2200.0	57.627	6.59263E+05	368.84	-1.52193E+05	3.6134
2250.0	57.650	6.62144E+05	370.14	-1.70668E+05	3.9620
2300.0	57.673	6.65028E+05	371.41	-1.89207E+05	4.2969
2350.0	57.694	6.67912E+05	372.65	-2.07808E+05	4.6189
2400.0	57.714	6.70797E+05	373.86	-2.26471E+05	4.9289
2450.0	57.734	6.73683E+05	375.05	-2.45194E+05	5.2275
2500.0	57.752	6.76570E+05	376.22	-2.63976E+05	5.5153
2550.0	57.769	6.79458E+05	377.36	-2.82816E+05	5.7931
2600.0	57.785	6.82347E+05	378.48	-3.01712E+05	6.0613
2650.0	57.801	6.85237E+05	379.59	-3.20664E+05	6.3205
2700.0	57.816	6.88127E+05	380.67	-3.39670E+05	6.5711
2750.0	57.830	6.91018E+05	381.73	-3.58730E+05	6.8137
2800.0	57.844	6.93910E+05	382.77	-3.77842E+05	7.0486
2850.0	57.857	6.96803E+05	383.79	-3.97006E+05	7.2761
2900.0	57.869	6.99696E+05	384.80	-4.16221E+05	7.4968
2950.0	57.881	7.02590E+05	385.79	-4.35486E+05	7.7108
3000.0	57.892	7.05484E+05	386.76	-4.54800E+05	7.9186

SiC<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	31.021	7.34950E+05	226.21	6.67506E+05	-116.94
300.00	31.055	7.35007E+05	226.40	6.67087E+05	-116.15
350.00	31.871	7.36581E+05	231.25	6.55643E+05	-97.847
400.00	32.560	7.38192E+05	235.55	6.43971E+05	-84.092
450.00	33.161	7.39836E+05	239.42	6.32095E+05	-73.370
500.00	33.697	7.41508E+05	242.95	6.20035E+05	-64.773
550.00	34.181	7.43205E+05	246.18	6.07805E+05	-57.723
600.00	34.619	7.44925E+05	249.17	5.95420E+05	-51.835
650.00	35.017	7.46666E+05	251.96	5.82891E+05	-46.841
700.00	35.377	7.48426E+05	254.57	5.70227E+05	-42.550
750.00	35.701	7.50203E+05	257.02	5.57437E+05	-38.822
800.00	35.991	7.51995E+05	259.33	5.44528E+05	-35.553
850.00	36.260	7.53802E+05	261.52	5.31506E+05	-32.662
900.00	36.523	7.55621E+05	263.60	5.18377E+05	-30.085
950.00	36.781	7.57454E+05	265.59	5.05147E+05	-27.774
1000.0	37.033	7.59299E+05	267.48	4.91820E+05	-25.689
1050.0	37.280	7.61157E+05	269.29	4.78400E+05	-23.799
1100.0	37.522	7.63027E+05	271.03	4.64892E+05	-22.075
1150.0	37.759	7.64909E+05	272.71	4.51298E+05	-20.498
1200.0	37.991	7.66803E+05	274.32	4.37622E+05	-19.049
1250.0	38.217	7.68708E+05	275.87	4.23867E+05	-17.712
1300.0	38.439	7.70625E+05	277.38	4.10036E+05	-16.475
1350.0	38.655	7.72552E+05	278.83	3.96130E+05	-15.327
1400.0	38.866	7.74490E+05	280.24	3.82153E+05	-14.258
1450.0	39.072	7.76439E+05	281.61	3.68107E+05	-13.260
1500.0	39.274	7.78397E+05	282.94	3.53993E+05	-12.327
1550.0	39.470	7.80366E+05	284.23	3.39814E+05	-11.451
1600.0	39.661	7.82344E+05	285.48	3.25571E+05	-10.629
1650.0	39.847	7.84332E+05	286.71	3.11266E+05	-9.8536
1700.0	40.028	7.86329E+05	287.90	2.96901E+05	-9.1224
1750.0	40.204	7.88335E+05	289.06	2.82477E+05	-8.4313
1800.0	40.375	7.90349E+05	290.20	2.67995E+05	-7.7768
1850.0	40.541	7.92372E+05	291.30	2.53458E+05	-7.1562
1900.0	40.702	7.94403E+05	292.39	2.38865E+05	-6.5667
1950.0	40.858	7.96442E+05	293.45	2.24219E+05	-6.0060
2000.0	41.008	7.98489E+05	294.48	2.09521E+05	-5.4720
2050.0	41.154	8.00543E+05	295.50	1.94771E+05	-4.9627
2100.0	41.295	8.02604E+05	296.49	1.79971E+05	-4.4764
2150.0	41.431	8.04672E+05	297.46	1.65122E+05	-4.0116
2200.0	41.562	8.06747E+05	298.42	1.50225E+05	-3.5667
2250.0	41.688	8.08828E+05	299.35	1.35281E+05	-3.1405
2300.0	41.809	8.10916E+05	300.27	1.20290E+05	-2.7318
2350.0	41.925	8.13009E+05	301.17	1.05254E+05	-2.3395
2400.0	42.036	8.15108E+05	302.06	90173.	-1.9625
2450.0	42.142	8.17213E+05	302.92	75049.	-1.6000
2500.0	42.243	8.19322E+05	303.78	59881.	-1.2511
2550.0	42.339	8.21437E+05	304.61	44671.	-0.91503
2600.0	42.430	8.23556E+05	305.44	29420.	-0.59104
2650.0	42.516	8.25680E+05	306.25	14128.	-0.27847
2700.0	42.596	8.27807E+05	307.04	-1204.6	2.3E-02
2750.0	42.672	8.29939E+05	307.82	-16576.	0.31485
2800.0	42.743	8.32075E+05	308.59	-31987.	0.59671
2850.0	42.809	8.34214E+05	309.35	-47435.	0.86937
2900.0	42.870	8.36356E+05	310.10	-62922.	1.1333
2950.0	42.926	8.38500E+05	310.83	-78445.	1.3890
3000.0	42.977	8.40648E+05	311.55	-94004.	1.6367

Sm

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	28.075	0.00000E+00	69.496	-20720.	3.6300
300.00	28.171	52.027	69.670	-20849.	3.6300
350.00	30.742	1525.2	74.207	-24447.	3.6484
400.00	33.179	3123.9	78.473	-28265.	3.6910
450.00	35.413	4839.7	82.512	-32291.	3.7481
500.00	37.404	6661.2	86.348	-36513.	3.8144
550.00	39.133	8575.7	89.996	-40922.	3.8864
600.00	40.586	10570.	93.466	-45510.	3.9619
650.00	41.755	12630.	96.763	-50266.	4.0393
700.00	42.632	14741.	99.891	-55183.	4.1177
750.00	43.198	16887.	102.85	-60252.	4.1962
800.00	43.621	19058.	105.65	-65466.	4.2744
850.00	43.985	21248.	108.31	-70815.	4.3517
900.00	44.352	23457.	110.83	-76294.	4.4279
950.00	44.768	25684.	113.24	-81897.	4.5029
1000.0	45.267	27935.	115.55	-87617.	4.5765
1050.0	45.876	30213.	117.77	-93451.	4.6488
1100.0	46.616	32525.	119.93	-99393.	4.7197
1150.0	47.502	34877.	122.02	-1.05442E+05	4.7892
1190.0	48.325	36793.	123.65	-1.10356E+05	4.8439
1190.0	46.944	39906.	126.27	-1.10356E+05	4.8439
1200.0	46.944	40375.	126.66	-1.11620E+05	4.8586
1250.0	46.944	42723.	128.58	-1.18002E+05	4.9309
1300.0	46.944	45070.	130.42	-1.24477E+05	5.0014
1345.0	46.944	47182.	132.02	-1.30382E+05	5.0634
1345.0	50.208	55801.	138.43	-1.30382E+05	5.0634
1350.0	50.208	56052.	138.61	-1.31075E+05	5.0715
1400.0	50.208	58563.	140.44	-1.38051E+05	5.1506
1450.0	50.208	61073.	142.20	-1.45118E+05	5.2276
1500.0	50.208	63584.	143.90	-1.52270E+05	5.3024
1550.0	50.208	66094.	145.55	-1.59507E+05	5.3752
1600.0	50.208	68604.	147.14	-1.66824E+05	5.4461
1650.0	50.208	71115.	148.69	-1.74220E+05	5.5152
1700.0	50.208	73625.	150.19	-1.81692E+05	5.5826
1750.0	50.208	76136.	151.64	-1.89238E+05	5.6483
1800.0	50.208	78646.	153.06	-1.96856E+05	5.7125
1850.0	50.208	81156.	154.43	-2.04543E+05	5.7751
1900.0	50.208	83667.	155.77	-2.12299E+05	5.8363
1950.0	50.208	86177.	157.08	-2.20120E+05	5.8962
2000.0	50.208	88688.	158.35	-2.28006E+05	5.9547

Sn

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.112	0.00000E+00	51.180	-15259.	2.6733
300.00	27.147	50.190	51.348	-15354.	2.6733
350.00	28.023	1429.7	55.599	-18030.	2.6908
400.00	28.903	2852.6	59.398	-20907.	2.7300
450.00	29.889	4321.8	62.858	-23964.	2.7816
500.00	31.033	5844.1	66.064	-27188.	2.8403
505.08	31.159	6002.1	66.379	-27524.	2.8465
505.08	29.415	13196.	80.622	-27525.	2.8465
550.00	28.999	14508.	83.110	-31203.	2.9633
600.00	28.663	15949.	85.618	-35422.	3.0837
650.00	28.422	17375.	87.902	-39761.	3.1951
700.00	28.249	18792.	90.002	-44209.	3.2989
750.00	28.127	20201.	91.946	-48759.	3.3958
800.00	28.043	21605.	93.759	-53402.	3.4867
850.00	27.989	23006.	95.457	-58132.	3.5723
900.00	27.957	24405.	97.056	-62946.	3.6532
950.00	27.944	25802.	98.567	-67837.	3.7298
1000.0	27.945	27199.	100.00	-72801.	3.8026
1050.0	27.957	28597.	101.36	-77835.	3.8720
1100.0	27.979	29995.	102.67	-82936.	3.9382
1150.0	28.008	31395.	103.91	-88101.	4.0016
1200.0	28.044	32796.	105.10	-93327.	4.0623
1250.0	28.085	34199.	106.25	-98610.	4.1206
1300.0	28.130	35605.	107.35	-1.03951E+05	4.1767
1350.0	28.178	37012.	108.41	-1.09345E+05	4.2307
1400.0	28.229	38422.	109.44	-1.14791E+05	4.2828
1450.0	28.283	39835.	110.43	-1.20288E+05	4.3331
1500.0	28.339	41251.	111.39	-1.25834E+05	4.3818
1550.0	28.396	42669.	112.32	-1.31427E+05	4.4289
1600.0	28.455	44090.	113.22	-1.37065E+05	4.4746
1650.0	28.514	45515.	114.10	-1.42748E+05	4.5189
1700.0	28.575	46942.	114.95	-1.48475E+05	4.5620
1750.0	28.636	48372.	115.78	-1.54243E+05	4.6038
1800.0	28.698	49805.	116.59	-1.60052E+05	4.6445
1850.0	28.760	51242.	117.37	-1.65902E+05	4.6841
1900.0	28.822	52681.	118.14	-1.71790E+05	4.7227
1950.0	28.884	54124.	118.89	-1.77715E+05	4.7603
2000.0	28.947	55570.	119.62	-1.83678E+05	4.7971
2050.0	29.009	57019.	120.34	-1.89678E+05	4.8329
2100.0	29.071	58471.	121.04	-1.95712E+05	4.8679
2150.0	29.134	59926.	121.72	-2.01781E+05	4.9022
2200.0	29.195	61384.	122.39	-2.07884E+05	4.9357
2250.0	29.257	62845.	123.05	-2.14021E+05	4.9684
2300.0	29.318	64310.	123.70	-2.20189E+05	5.0005
2350.0	29.379	65777.	124.33	-2.26390E+05	5.0320
2400.0	29.439	67248.	124.95	-2.32622E+05	5.0628
2450.0	29.499	68721.	125.55	-2.38884E+05	5.0929
2500.0	29.559	70198.	126.15	-2.45177E+05	5.1226
2550.0	29.618	71677.	126.74	-2.51499E+05	5.1516
2600.0	29.676	73159.	127.31	-2.57850E+05	5.1801
2650.0	29.734	74645.	127.88	-2.64230E+05	5.2082
2700.0	29.792	76133.	128.43	-2.70638E+05	5.2357
2750.0	29.848	77624.	128.98	-2.77073E+05	5.2627
2800.0	29.905	79118.	129.52	-2.83536E+05	5.2893
2850.0	29.960	80614.	130.05	-2.90025E+05	5.3154
2900.0	30.015	82114.	130.57	-2.96540E+05	5.3411
2950.0	30.069	83616.	131.08	-3.03082E+05	5.3664
3000.0	30.123	85121.	131.59	-3.09649E+05	5.3913

SnCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.604	-2.02648E+05	305.90	-2.93851E+05	51.480
300.00	54.648	-2.02547E+05	306.24	-2.94418E+05	51.261
350.00	55.571	-1.99790E+05	314.73	-3.09947E+05	46.256
400.00	56.171	-1.96995E+05	322.20	-3.25874E+05	42.554
450.00	56.584	-1.94176E+05	328.84	-3.42153E+05	39.715
500.00	56.879	-1.91339E+05	334.82	-3.58747E+05	37.477
550.00	57.098	-1.88489E+05	340.25	-3.75625E+05	35.673
600.00	57.265	-1.85630E+05	345.22	-3.92764E+05	34.192
650.00	57.396	-1.82763E+05	349.81	-4.10141E+05	32.959
700.00	57.499	-1.79891E+05	354.07	-4.27740E+05	31.918
750.00	57.584	-1.77014E+05	358.04	-4.45544E+05	31.030
800.00	57.653	-1.74133E+05	361.76	-4.63540E+05	30.265
850.00	57.711	-1.71248E+05	365.26	-4.81716E+05	29.602
900.00	57.759	-1.68362E+05	368.56	-5.00062E+05	29.022
950.00	57.801	-1.65473E+05	371.68	-5.18568E+05	28.512
1000.0	57.836	-1.62582E+05	374.65	-5.37227E+05	28.061
1050.0	57.867	-1.59689E+05	377.47	-5.56031E+05	27.660
1100.0	57.894	-1.56795E+05	380.16	-5.74972E+05	27.302
1150.0	57.918	-1.53900E+05	382.73	-5.94045E+05	26.982
1200.0	57.939	-1.51003E+05	385.20	-6.13243E+05	26.693
1250.0	57.957	-1.48106E+05	387.57	-6.32563E+05	26.433
1300.0	57.974	-1.45208E+05	389.84	-6.51999E+05	26.197
1350.0	57.989	-1.42309E+05	392.03	-6.71546E+05	25.983
1400.0	58.003	-1.39409E+05	394.14	-6.91200E+05	25.788
1450.0	58.015	-1.36508E+05	396.17	-7.10958E+05	25.611
1500.0	58.026	-1.33607E+05	398.14	-7.30816E+05	25.449
1550.0	58.037	-1.30706E+05	400.04	-7.50771E+05	25.300
1600.0	58.046	-1.27804E+05	401.88	-7.70819E+05	25.164
1650.0	58.055	-1.24901E+05	403.67	-7.90958E+05	25.039
1700.0	58.063	-1.21998E+05	405.40	-8.11185E+05	24.924
1750.0	58.071	-1.19095E+05	407.09	-8.31498E+05	24.818
1800.0	58.078	-1.16191E+05	408.72	-8.51893E+05	24.721
1850.0	58.084	-1.13287E+05	410.31	-8.72370E+05	24.631
1900.0	58.090	-1.10383E+05	411.86	-8.92924E+05	24.548
1950.0	58.096	-1.07478E+05	413.37	-9.13555E+05	24.471
2000.0	58.101	-1.04573E+05	414.84	-9.34261E+05	24.400
2050.0	58.106	-1.01668E+05	416.28	-9.55039E+05	24.334
2100.0	58.111	-98762.	417.68	-9.75888E+05	24.273
2150.0	58.115	-95857.	419.05	-9.96806E+05	24.217
2200.0	58.119	-92951.	420.38	-1.01779E+06	24.165
2250.0	58.123	-90045.	421.69	-1.03884E+06	24.117
2300.0	58.127	-87139.	422.97	-1.05996E+06	24.072
2350.0	58.131	-84232.	424.22	-1.08114E+06	24.030
2400.0	58.134	-81326.	425.44	-1.10238E+06	23.992
2450.0	58.137	-78419.	426.64	-1.12368E+06	23.957
2500.0	58.140	-75512.	427.81	-1.14505E+06	23.924
2550.0	58.143	-72605.	428.96	-1.16646E+06	23.893
2600.0	58.146	-69698.	430.09	-1.18794E+06	23.865
2650.0	58.148	-66790.	431.20	-1.20947E+06	23.840
2700.0	58.151	-63883.	432.29	-1.23106E+06	23.816
2750.0	58.153	-60975.	433.36	-1.25270E+06	23.794
2800.0	58.156	-58067.	434.40	-1.27440E+06	23.774
2850.0	58.158	-55160.	435.43	-1.29614E+06	23.755
2900.0	58.160	-52252.	436.44	-1.31794E+06	23.738
2950.0	58.162	-49344.	437.44	-1.33979E+06	23.723
3000.0	58.164	-46435.	438.42	-1.36168E+06	23.708

SnBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.383	-1.18975E+05	329.04	-2.17079E+05	38.030
300.00	56.405	-1.18871E+05	329.39	-2.17688E+05	37.902
350.00	56.877	-1.16038E+05	338.12	-2.34381E+05	34.979
400.00	57.183	-1.13186E+05	345.74	-2.51481E+05	32.839
450.00	57.394	-1.10321E+05	352.49	-2.68940E+05	31.217
500.00	57.544	-1.07447E+05	358.54	-2.86719E+05	29.953
550.00	57.656	-1.04567E+05	364.03	-3.04785E+05	28.945
600.00	57.741	-1.01682E+05	369.05	-3.23114E+05	28.129
650.00	57.807	-98793.	373.68	-3.41684E+05	27.457
700.00	57.859	-95902.	377.96	-3.60476E+05	26.898
750.00	57.902	-93008.	381.96	-3.79475E+05	26.428
800.00	57.937	-90112.	385.69	-3.98668E+05	26.030
850.00	57.966	-87214.	389.21	-4.18041E+05	25.689
900.00	57.990	-84315.	392.52	-4.37585E+05	25.396
950.00	58.011	-81415.	395.66	-4.57290E+05	25.143
1000.0	58.028	-78514.	398.63	-4.77148E+05	24.923
1050.0	58.044	-75612.	401.47	-4.97151E+05	24.731
1100.0	58.057	-72710.	404.17	-5.17293E+05	24.564
1150.0	58.069	-69807.	406.75	-5.37566E+05	24.416
1200.0	58.079	-66903.	409.22	-5.57966E+05	24.287
1250.0	58.088	-63999.	411.59	-5.78486E+05	24.173
1300.0	58.096	-61094.	413.87	-5.99123E+05	24.072
1350.0	58.103	-58189.	416.06	-6.19872E+05	23.984
1400.0	58.110	-55284.	418.17	-6.40728E+05	23.905
1450.0	58.116	-52378.	420.21	-6.61688E+05	23.836
1500.0	58.121	-49472.	422.18	-6.82748E+05	23.775
1550.0	58.126	-46566.	424.09	-7.03905E+05	23.721
1600.0	58.131	-43660.	425.94	-7.25156E+05	23.673
1650.0	58.135	-40753.	427.72	-7.46498E+05	23.632
1700.0	58.138	-37846.	429.46	-7.67927E+05	23.595
1750.0	58.142	-34939.	431.14	-7.89443E+05	23.563
1800.0	58.145	-32032.	432.78	-8.11041E+05	23.535
1850.0	58.148	-29125.	434.38	-8.32720E+05	23.511
1900.0	58.151	-26217.	435.93	-8.54478E+05	23.491
1950.0	58.153	-23310.	437.44	-8.76312E+05	23.473
2000.0	58.156	-20402.	438.91	-8.98221E+05	23.459
2050.0	58.158	-17494.	440.35	-9.20203E+05	23.446
2100.0	58.160	-14586.	441.75	-9.42255E+05	23.437
2150.0	58.162	-11678.	443.12	-9.64377E+05	23.429
2200.0	58.164	-8769.9	444.45	-9.86566E+05	23.423
2250.0	58.166	-5861.7	445.76	-1.00882E+06	23.420
2300.0	58.167	-2953.3	447.04	-1.03114E+06	23.417
2350.0	58.169	-44.945	448.29	-1.05352E+06	23.417
2400.0	58.170	2863.5	449.51	-1.07597E+06	23.417
2450.0	58.171	5772.1	450.71	-1.09848E+06	23.419
2500.0	58.173	8680.7	451.89	-1.12104E+06	23.422
2550.0	58.174	11589.	453.04	-1.14366E+06	23.426
2600.0	58.175	14498.	454.17	-1.16634E+06	23.432
2650.0	58.176	17407.	455.28	-1.18908E+06	23.438
2700.0	58.177	20316.	456.37	-1.21187E+06	23.444
2750.0	58.178	23225.	457.43	-1.23472E+06	23.452
2800.0	58.179	26134.	458.48	-1.25762E+06	23.461
2850.0	58.180	29043.	459.51	-1.28057E+06	23.470
2900.0	58.181	31952.	460.52	-1.30357E+06	23.479
2950.0	58.182	34861.	461.52	-1.32662E+06	23.489
3000.0	58.183	37770.	462.50	-1.34972E+06	23.500

SnBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	103.26	-3.24217E+05	413.23	-4.47421E+05	78.384
300.00	103.32	-3.24026E+05	413.87	-4.48186E+05	78.034
350.00	104.57	-3.18826E+05	429.89	-4.69290E+05	70.036
400.00	105.38	-3.13577E+05	443.91	-4.91142E+05	64.135
450.00	105.94	-3.08293E+05	456.36	-5.13655E+05	59.622
500.00	106.33	-3.02986E+05	467.54	-5.36757E+05	56.073
550.00	106.63	-2.97661E+05	477.69	-5.60392E+05	53.220
600.00	106.86	-2.92324E+05	486.98	-5.84512E+05	50.885
650.00	107.03	-2.86976E+05	495.54	-6.09078E+05	48.945
700.00	107.17	-2.81621E+05	503.48	-6.34056E+05	47.313
750.00	107.28	-2.76260E+05	510.88	-6.59417E+05	45.925
800.00	107.38	-2.70893E+05	517.80	-6.85135E+05	44.734
850.00	107.45	-2.65522E+05	524.31	-7.11190E+05	43.703
900.00	107.52	-2.60148E+05	530.46	-7.37561E+05	42.806
950.00	107.57	-2.54771E+05	536.27	-7.64230E+05	42.019
1000.0	107.62	-2.49391E+05	541.79	-7.91183E+05	41.326
1050.0	107.66	-2.44009E+05	547.04	-8.18405E+05	40.712
1100.0	107.70	-2.38625E+05	552.05	-8.45883E+05	40.167
1150.0	107.73	-2.33239E+05	556.84	-8.73607E+05	39.679
1200.0	107.76	-2.27852E+05	561.43	-9.01564E+05	39.243
1250.0	107.78	-2.22464E+05	565.83	-9.29746E+05	38.851
1300.0	107.80	-2.17074E+05	570.05	-9.58144E+05	38.498
1350.0	107.82	-2.11683E+05	574.12	-9.86749E+05	38.179
1400.0	107.84	-2.06292E+05	578.04	-1.01555E+06	37.890
1450.0	107.86	-2.00900E+05	581.83	-1.04455E+06	37.628
1500.0	107.87	-1.95506E+05	585.49	-1.07373E+06	37.390
1550.0	107.88	-1.90113E+05	589.02	-1.10310E+06	37.173
1600.0	107.90	-1.84718E+05	592.45	-1.13263E+06	36.976
1650.0	107.91	-1.79323E+05	595.77	-1.16234E+06	36.796
1700.0	107.92	-1.73928E+05	598.99	-1.19221E+06	36.631
1750.0	107.93	-1.68531E+05	602.12	-1.22224E+06	36.481
1800.0	107.93	-1.63135E+05	605.16	-1.25242E+06	36.343
1850.0	107.94	-1.57738E+05	608.12	-1.28275E+06	36.218
1900.0	107.95	-1.52341E+05	610.99	-1.31323E+06	36.102
1950.0	107.96	-1.46943E+05	613.80	-1.34385E+06	35.997
2000.0	107.96	-1.41545E+05	616.53	-1.37461E+06	35.900
2050.0	107.97	-1.36147E+05	619.20	-1.40550E+06	35.812
2100.0	107.98	-1.30748E+05	621.80	-1.43653E+06	35.731
2150.0	107.98	-1.25349E+05	624.34	-1.46768E+06	35.657
2200.0	107.99	-1.19950E+05	626.82	-1.49896E+06	35.589
2250.0	107.99	-1.14551E+05	629.25	-1.53036E+06	35.527
2300.0	108.00	-1.09151E+05	631.62	-1.56189E+06	35.471
2350.0	108.00	-1.03751E+05	633.95	-1.59352E+06	35.419
2400.0	108.00	-98351.	636.22	-1.62528E+06	35.372
2450.0	108.01	-92951.	638.45	-1.65715E+06	35.330
2500.0	108.01	-87550.	640.63	-1.68912E+06	35.291
2550.0	108.01	-82150.	642.77	-1.72121E+06	35.257
2600.0	108.02	-76749.	644.87	-1.75340E+06	35.225
2650.0	108.02	-71348.	646.92	-1.78569E+06	35.197
2700.0	108.02	-65947.	648.94	-1.81809E+06	35.172
2750.0	108.03	-60545.	650.92	-1.85059E+06	35.150
2800.0	108.03	-55144.	652.87	-1.88318E+06	35.130
2850.0	108.03	-49743.	654.78	-1.91587E+06	35.113
2900.0	108.03	-44341.	656.66	-1.94866E+06	35.098
2950.0	108.04	-38939.	658.51	-1.98154E+06	35.086
3000.0	108.04	-33537.	660.32	-2.01451E+06	35.075

Sr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.791	0.00000E+00	55.694	-16605.	2.9091
300.00	26.808	49.580	55.860	-16708.	2.9091
350.00	27.290	1402.0	60.028	-19608.	2.9262
400.00	27.781	2778.8	63.704	-22703.	2.9646
450.00	28.280	4180.3	67.005	-25972.	3.0147
500.00	28.785	5606.8	70.011	-29399.	3.0712
550.00	29.296	7058.8	72.778	-32969.	3.1311
600.00	29.813	8536.5	75.350	-36673.	3.1926
650.00	30.335	10040.	77.756	-40501.	3.2547
700.00	30.863	11570.	80.024	-44447.	3.3166
750.00	31.396	13127.	82.171	-48502.	3.3779
800.00	31.934	14710.	84.215	-52662.	3.4384
820.00	32.151	15351.	85.006	-54354.	3.4623
820.00	29.888	16187.	86.026	-54354.	3.4623
850.00	30.007	17086.	87.102	-56951.	3.4997
900.00	30.206	18591.	88.823	-61350.	3.5606
950.00	30.407	20107.	90.462	-65832.	3.6196
1000.0	30.609	21632.	92.027	-70395.	3.6769
1050.0	30.812	23167.	93.525	-75034.	3.7326
1050.0	35.146	30598.	100.60	-75034.	3.7326
1050.0	35.146	30599.	100.60	-75034.	3.7326
1100.0	35.146	32356.	102.24	-80105.	3.8038
1150.0	35.146	34113.	103.80	-85256.	3.8724
1200.0	35.146	35870.	105.30	-90484.	3.9386
1250.0	35.146	37628.	106.73	-95785.	4.0025
1300.0	35.146	39385.	108.11	-1.01156E+05	4.0644
1350.0	35.146	41142.	109.43	-1.06595E+05	4.1243
1400.0	35.146	42899.	110.71	-1.12099E+05	4.1823
1450.0	35.146	44657.	111.95	-1.17665E+05	4.2387
1500.0	35.146	46414.	113.14	-1.23292E+05	4.2933
1550.0	35.146	48171.	114.29	-1.28978E+05	4.3464
1600.0	35.146	49929.	115.41	-1.34721E+05	4.3981
1650.0	35.146	51686.	116.49	-1.40518E+05	4.4483
1700.0	35.146	53443.	117.54	-1.46369E+05	4.4973
1750.0	35.146	55200.	118.56	-1.52271E+05	4.5449
1800.0	35.146	56958.	119.55	-1.58224E+05	4.5914
1850.0	35.146	58715.	120.51	-1.64226E+05	4.6368
1900.0	35.146	60472.	121.45	-1.70275E+05	4.6811
1950.0	35.146	62230.	122.36	-1.76370E+05	4.7243
2000.0	35.146	63987.	123.25	-1.82510E+05	4.7666

SrCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.233	-1.27867E+05	252.47	-2.03140E+05	35.588
300.00	36.252	-1.27800E+05	252.69	-2.03607E+05	35.450
350.00	36.659	-1.25976E+05	258.31	-2.16386E+05	32.293
400.00	36.926	-1.24136E+05	263.23	-2.29427E+05	29.959
450.00	37.112	-1.22285E+05	267.59	-2.42699E+05	28.171
500.00	37.248	-1.20426E+05	271.50	-2.56178E+05	26.762
550.00	37.353	-1.18561E+05	275.06	-2.69844E+05	25.627
600.00	37.437	-1.16691E+05	278.31	-2.83679E+05	24.696
650.00	37.506	-1.14817E+05	281.31	-2.97671E+05	23.921
700.00	37.566	-1.12941E+05	284.09	-3.11807E+05	23.267
750.00	37.619	-1.11061E+05	286.69	-3.26077E+05	22.709
800.00	37.666	-1.09179E+05	289.12	-3.40473E+05	22.230
850.00	37.711	-1.07294E+05	291.40	-3.54986E+05	21.814
900.00	37.753	-1.05408E+05	293.56	-3.69611E+05	21.451
950.00	37.794	-1.03519E+05	295.60	-3.84340E+05	21.132
1000.0	37.834	-1.01628E+05	297.54	-3.99169E+05	20.850
1050.0	37.874	-99736.	299.39	-4.14093E+05	20.599
1100.0	37.914	-97841.	301.15	-4.29107E+05	20.376
1150.0	37.954	-95944.	302.84	-4.44207E+05	20.176
1200.0	37.994	-94046.	304.45	-4.59389E+05	19.996
1250.0	38.036	-92145.	306.00	-4.74651E+05	19.834
1300.0	38.078	-90242.	307.50	-4.89989E+05	19.687
1350.0	38.121	-88337.	308.94	-5.05400E+05	19.555
1400.0	38.166	-86430.	310.32	-5.20881E+05	19.434
1450.0	38.211	-84520.	311.66	-5.36431E+05	19.324
1500.0	38.258	-82609.	312.96	-5.52047E+05	19.223
1550.0	38.306	-80695.	314.21	-5.67726E+05	19.132
1600.0	38.356	-78778.	315.43	-5.83468E+05	19.048
1650.0	38.407	-76859.	316.61	-5.99269E+05	18.971
1700.0	38.459	-74937.	317.76	-6.15128E+05	18.900
1750.0	38.513	-73013.	318.87	-6.31044E+05	18.835
1800.0	38.569	-71086.	319.96	-6.47015E+05	18.775
1850.0	38.626	-69156.	321.02	-6.63040E+05	18.720
1900.0	38.684	-67223.	322.05	-6.79117E+05	18.670
1950.0	38.744	-65288.	323.05	-6.95244E+05	18.623
2000.0	38.806	-63349.	324.04	-7.11422E+05	18.580
2050.0	38.869	-61407.	325.00	-7.27648E+05	18.540
2100.0	38.934	-59462.	325.93	-7.43921E+05	18.504
2150.0	39.000	-57514.	326.85	-7.60240E+05	18.470
2200.0	39.069	-55562.	327.75	-7.76605E+05	18.438
2250.0	39.138	-53607.	328.63	-7.93015E+05	18.410
2300.0	39.210	-51648.	329.49	-8.09468E+05	18.383
2350.0	39.283	-49686.	330.33	-8.25963E+05	18.359
2400.0	39.358	-47720.	331.16	-8.42501E+05	18.336
2450.0	39.434	-45750.	331.97	-8.59079E+05	18.315
2500.0	39.512	-43776.	332.77	-8.75697E+05	18.296
2550.0	39.592	-41799.	333.55	-8.92355E+05	18.279
2600.0	39.677	-39817.	334.32	-9.09052E+05	18.263
2650.0	39.752	-37831.	335.08	-9.25787E+05	18.248
2700.0	39.841	-35842.	335.82	-9.42560E+05	18.234
2750.0	39.941	-33847.	336.55	-9.59369E+05	18.222
2800.0	40.052	-31847.	337.27	-9.76215E+05	18.211
2850.0	40.172	-29842.	337.98	-9.93097E+05	18.201
2900.0	40.301	-27830.	338.68	-1.01001E+06	18.192
2950.0	40.437	-25812.	339.37	-1.02696E+06	18.184
3000.0	40.582	-23786.	340.05	-1.04395E+06	18.176

SrCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	55.775	-4.73210E+05	316.34	-5.67526E+05	99.426
300.00	55.805	-4.73107E+05	316.68	-5.68112E+05	98.915
350.00	56.431	-4.70300E+05	325.33	-5.84167E+05	87.180
400.00	56.838	-4.67468E+05	332.90	-6.00627E+05	78.432
450.00	57.117	-4.64618E+05	339.61	-6.17443E+05	71.669
500.00	57.317	-4.61757E+05	345.64	-6.34576E+05	66.292
550.00	57.465	-4.58888E+05	351.11	-6.51997E+05	61.920
600.00	57.578	-4.56012E+05	356.11	-6.69680E+05	58.299
650.00	57.666	-4.53130E+05	360.73	-6.87602E+05	55.255
700.00	57.736	-4.50245E+05	365.00	-7.05747E+05	52.662
750.00	57.792	-4.47357E+05	368.99	-7.24097E+05	50.429
800.00	57.839	-4.44466E+05	372.72	-7.42641E+05	48.488
850.00	57.877	-4.41573E+05	376.23	-7.61365E+05	46.787
900.00	57.910	-4.38679E+05	379.54	-7.80260E+05	45.284
950.00	57.938	-4.35782E+05	382.67	-7.99316E+05	43.948
1000.0	57.961	-4.32885E+05	385.64	-8.18524E+05	42.754
1050.0	57.982	-4.29986E+05	388.47	-8.37878E+05	41.681
1100.0	58.000	-4.27087E+05	391.17	-8.57369E+05	40.712
1150.0	58.015	-4.24186E+05	393.74	-8.76992E+05	39.833
1200.0	58.029	-4.21285E+05	396.21	-8.96742E+05	39.033
1250.0	58.042	-4.18383E+05	398.58	-9.16612E+05	38.302
1300.0	58.053	-4.15481E+05	400.86	-9.36598E+05	37.632
1350.0	58.062	-4.12578E+05	403.05	-9.56696E+05	37.016
1400.0	58.071	-4.09675E+05	405.16	-9.76902E+05	36.448
1450.0	58.079	-4.06771E+05	407.20	-9.97211E+05	35.923
1500.0	58.087	-4.03867E+05	409.17	-1.01762E+06	35.436
1550.0	58.093	-4.00962E+05	411.07	-1.03813E+06	34.984
1600.0	58.099	-3.98058E+05	412.92	-1.05873E+06	34.563
1650.0	58.105	-3.95152E+05	414.71	-1.07942E+06	34.171
1700.0	58.110	-3.92247E+05	416.44	-1.10020E+06	33.804
1750.0	58.115	-3.89341E+05	418.13	-1.12106E+06	33.461
1800.0	58.119	-3.86436E+05	419.76	-1.14201E+06	33.139
1850.0	58.124	-3.83530E+05	421.36	-1.16304E+06	32.837
1900.0	58.127	-3.80623E+05	422.91	-1.18414E+06	32.554
1950.0	58.131	-3.77717E+05	424.42	-1.20533E+06	32.286
2000.0	58.134	-3.74810E+05	425.89	-1.22658E+06	32.034
2050.0	58.137	-3.71903E+05	427.32	-1.24792E+06	31.796
2100.0	58.140	-3.68996E+05	428.72	-1.26932E+06	31.572
2150.0	58.143	-3.66089E+05	430.09	-1.29079E+06	31.359
2200.0	58.146	-3.63182E+05	431.43	-1.31233E+06	31.158
2250.0	58.148	-3.60275E+05	432.74	-1.33393E+06	30.967
2300.0	58.151	-3.57367E+05	434.01	-1.35560E+06	30.786
2350.0	58.153	-3.54460E+05	435.26	-1.37733E+06	30.614
2400.0	58.155	-3.51552E+05	436.49	-1.39912E+06	30.450
2450.0	58.157	-3.48644E+05	437.69	-1.42098E+06	30.295
2500.0	58.159	-3.45736E+05	438.86	-1.44289E+06	30.147
2550.0	58.161	-3.42828E+05	440.01	-1.46486E+06	30.006
2600.0	58.162	-3.39920E+05	441.14	-1.48689E+06	29.871
2650.0	58.164	-3.37012E+05	442.25	-1.50898E+06	29.743
2700.0	58.165	-3.34104E+05	443.34	-1.53112E+06	29.621
2750.0	58.167	-3.31196E+05	444.41	-1.55331E+06	29.504
2800.0	58.168	-3.28287E+05	445.45	-1.57556E+06	29.392
2850.0	58.170	-3.25379E+05	446.48	-1.59786E+06	29.285
2900.0	58.171	-3.22470E+05	447.50	-1.62021E+06	29.182
2950.0	58.172	-3.19562E+05	448.49	-1.64261E+06	29.084
3000.0	58.173	-3.16653E+05	449.47	-1.66506E+06	28.990

SrBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.837	-63917.	263.87	-1.42591E+05	24.981
300.00	36.850	-63849.	264.10	-1.43079E+05	24.912
350.00	37.115	-61999.	269.80	-1.56431E+05	23.345
400.00	37.288	-60139.	274.77	-1.70048E+05	22.205
450.00	37.409	-58271.	279.17	-1.83898E+05	21.346
500.00	37.497	-56398.	283.12	-1.97957E+05	20.680
550.00	37.566	-54522.	286.69	-2.12204E+05	20.153
600.00	37.621	-52642.	289.97	-2.26622E+05	19.729
650.00	37.668	-50760.	292.98	-2.41196E+05	19.382
700.00	37.709	-48875.	295.77	-2.55916E+05	19.096
750.00	37.747	-46989.	298.38	-2.70770E+05	18.858
800.00	37.783	-45101.	300.81	-2.85751E+05	18.657
850.00	37.818	-43211.	303.10	-3.00849E+05	18.487
900.00	37.852	-41319.	305.27	-3.16059E+05	18.343
950.00	37.886	-39426.	307.31	-3.31374E+05	18.220
1000.0	37.921	-37530.	309.26	-3.46788E+05	18.114
1050.0	37.956	-35633.	311.11	-3.62298E+05	18.023
1100.0	37.993	-33735.	312.88	-3.77898E+05	17.944
1150.0	38.031	-31834.	314.57	-3.93584E+05	17.877
1200.0	38.070	-29932.	316.18	-4.09353E+05	17.818
1250.0	38.111	-28027.	317.74	-4.25202E+05	17.768
1300.0	38.154	-26120.	319.24	-4.41126E+05	17.724
1350.0	38.198	-24212.	320.68	-4.57124E+05	17.687
1400.0	38.245	-22301.	322.07	-4.73193E+05	17.655
1450.0	38.293	-20387.	323.41	-4.89330E+05	17.627
1500.0	38.343	-18471.	324.71	-5.05533E+05	17.604
1550.0	38.394	-16553.	325.97	-5.21800E+05	17.584
1600.0	38.448	-14632.	327.19	-5.38129E+05	17.568
1650.0	38.504	-12708.	328.37	-5.54518E+05	17.554
1700.0	38.562	-10781.	329.52	-5.70966E+05	17.543
1750.0	38.622	-8851.7	330.64	-5.87470E+05	17.535
1800.0	38.684	-6919.1	331.73	-6.04029E+05	17.528
1850.0	38.748	-4983.3	332.79	-6.20642E+05	17.523
1900.0	38.815	-3044.2	333.82	-6.37307E+05	17.520
1950.0	38.883	-1101.8	334.83	-6.54024E+05	17.519
2000.0	38.953	844.13	335.82	-6.70790E+05	17.519
2050.0	39.026	2793.6	336.78	-6.87605E+05	17.520
2100.0	39.101	4746.8	337.72	-7.04468E+05	17.522
2150.0	39.178	6703.7	338.64	-7.21377E+05	17.526
2200.0	39.257	8664.6	339.54	-7.38332E+05	17.530
2250.0	39.338	10629.	340.43	-7.55331E+05	17.535
2300.0	39.421	12598.	341.29	-7.72374E+05	17.541
2350.0	39.507	14572.	342.14	-7.89460E+05	17.547
2400.0	39.595	16549.	342.97	-8.06588E+05	17.554
2450.0	39.685	18531.	343.79	-8.23757E+05	17.562
2500.0	39.777	20518.	344.59	-8.40967E+05	17.571
2550.0	39.871	22509.	345.38	-8.58216E+05	17.579
2600.0	39.971	24505.	346.16	-8.75505E+05	17.589
2650.0	40.062	26505.	346.92	-8.92832E+05	17.598
2700.0	40.167	28511.	347.67	-9.10197E+05	17.608
2750.0	40.284	30522.	348.41	-9.27599E+05	17.619
2800.0	40.413	32540.	349.13	-9.45037E+05	17.629
2850.0	40.553	34564.	349.85	-9.62512E+05	17.640
2900.0	40.701	36595.	350.56	-9.80022E+05	17.652
2950.0	40.857	38634.	351.25	-9.97568E+05	17.663
3000.0	41.021	40681.	351.94	-1.01515E+06	17.675

SrBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	61.235	-4.06726E+05	326.40	-5.04043E+05	88.304
300.00	61.249	-4.06613E+05	326.78	-5.04647E+05	87.865
350.00	61.541	-4.03542E+05	336.25	-5.21229E+05	77.787
400.00	61.731	-4.00460E+05	344.48	-5.38251E+05	70.287
450.00	61.861	-3.97370E+05	351.76	-5.55661E+05	64.498
500.00	61.954	-3.94275E+05	358.28	-5.73415E+05	59.903
550.00	62.023	-3.91175E+05	364.19	-5.91479E+05	56.173
600.00	62.075	-3.88073E+05	369.59	-6.09825E+05	53.089
650.00	62.116	-3.84968E+05	374.56	-6.28430E+05	50.500
700.00	62.149	-3.81861E+05	379.16	-6.47275E+05	48.299
750.00	62.175	-3.78753E+05	383.45	-6.66341E+05	46.407
800.00	62.197	-3.75644E+05	387.46	-6.85615E+05	44.765
850.00	62.214	-3.72534E+05	391.23	-7.05083E+05	43.328
900.00	62.229	-3.69423E+05	394.79	-7.24735E+05	42.061
950.00	62.242	-3.66311E+05	398.16	-7.44559E+05	40.938
1000.0	62.253	-3.63198E+05	401.35	-7.64548E+05	39.935
1050.0	62.263	-3.60085E+05	404.39	-7.84692E+05	39.035
1100.0	62.271	-3.56972E+05	407.28	-8.04984E+05	38.225
1150.0	62.278	-3.53858E+05	410.05	-8.25418E+05	37.491
1200.0	62.284	-3.50744E+05	412.70	-8.45987E+05	36.824
1250.0	62.290	-3.47630E+05	415.25	-8.66686E+05	36.216
1300.0	62.295	-3.44515E+05	417.69	-8.87510E+05	35.660
1350.0	62.299	-3.41400E+05	420.04	-9.08454E+05	35.149
1400.0	62.303	-3.38285E+05	422.31	-9.29513E+05	34.680
1450.0	62.307	-3.35170E+05	424.49	-9.50683E+05	34.246
1500.0	62.310	-3.32055E+05	426.60	-9.71960E+05	33.846
1550.0	62.313	-3.28939E+05	428.65	-9.93342E+05	33.475
1600.0	62.316	-3.25823E+05	430.63	-1.01482E+06	33.130
1650.0	62.318	-3.22708E+05	432.54	-1.03640E+06	32.809
1700.0	62.321	-3.19592E+05	434.40	-1.05808E+06	32.510
1750.0	62.323	-3.16476E+05	436.21	-1.07984E+06	32.231
1800.0	62.325	-3.13359E+05	437.97	-1.10170E+06	31.970
1850.0	62.326	-3.10243E+05	439.67	-1.12364E+06	31.725
1900.0	62.328	-3.07127E+05	441.34	-1.14566E+06	31.496
1950.0	62.330	-3.04010E+05	442.95	-1.16777E+06	31.280
2000.0	62.331	-3.00894E+05	444.53	-1.18996E+06	31.078
2050.0	62.332	-2.97777E+05	446.07	-1.21222E+06	30.887
2100.0	62.334	-2.94661E+05	447.57	-1.23457E+06	30.707
2150.0	62.335	-2.91544E+05	449.04	-1.25698E+06	30.538
2200.0	62.336	-2.88427E+05	450.47	-1.27947E+06	30.378
2250.0	62.337	-2.85310E+05	451.87	-1.30203E+06	30.226
2300.0	62.338	-2.82193E+05	453.24	-1.32466E+06	30.083
2350.0	62.339	-2.79076E+05	454.59	-1.34735E+06	29.948
2400.0	62.340	-2.75959E+05	455.90	-1.37011E+06	29.819
2450.0	62.341	-2.72842E+05	457.18	-1.39294E+06	29.697
2500.0	62.341	-2.69725E+05	458.44	-1.41583E+06	29.581
2550.0	62.342	-2.66608E+05	459.68	-1.43879E+06	29.472
2600.0	62.343	-2.63491E+05	460.89	-1.46180E+06	29.367
2650.0	62.343	-2.60374E+05	462.08	-1.48487E+06	29.268
2700.0	62.344	-2.57257E+05	463.24	-1.50801E+06	29.173
2750.0	62.345	-2.54140E+05	464.38	-1.53120E+06	29.083
2800.0	62.345	-2.51022E+05	465.51	-1.55444E+06	28.998
2850.0	62.346	-2.47905E+05	466.61	-1.57775E+06	28.916
2900.0	62.346	-2.44788E+05	467.70	-1.60111E+06	28.838
2950.0	62.347	-2.41671E+05	468.76	-1.62452E+06	28.764
3000.0	62.347	-2.38553E+05	469.81	-1.64798E+06	28.693

SrCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.424	-1.22600E+06	97.200	-1.25498E+06	219.86
300.00	82.862	-1.22585E+06	97.711	-1.25516E+06	218.54
350.00	91.792	-1.22146E+06	111.22	-1.26039E+06	188.10
400.00	97.093	-1.21673E+06	123.85	-1.26627E+06	165.35
450.00	100.47	-1.21178E+06	135.49	-1.27276E+06	147.73
500.00	102.82	-1.20670E+06	146.21	-1.27980E+06	133.70
550.00	104.66	-1.20151E+06	156.10	-1.28736E+06	122.26
600.00	106.29	-1.19623E+06	165.27	-1.29540E+06	112.77
650.00	107.90	-1.19088E+06	173.85	-1.30388E+06	104.78
700.00	109.63	-1.18544E+06	181.90	-1.31278E+06	97.958
750.00	111.55	-1.17991E+06	189.53	-1.32206E+06	92.074
800.00	113.74	-1.17428E+06	196.80	-1.33172E+06	86.950
850.00	116.22	-1.16853E+06	203.77	-1.34174E+06	82.451
900.00	119.04	-1.16266E+06	210.49	-1.35210E+06	78.472
950.00	122.21	-1.15663E+06	217.01	-1.36278E+06	74.929
1000.0	125.75	-1.15043E+06	223.37	-1.37379E+06	71.758
1050.0	129.68	-1.14404E+06	229.59	-1.38512E+06	68.904
1100.0	134.01	-1.13745E+06	235.73	-1.39675E+06	66.324
1150.0	138.75	-1.13064E+06	241.79	-1.40869E+06	63.983
1198.0	143.68	-1.12386E+06	247.56	-1.42043E+06	61.932
1198.0	146.00	-1.10716E+06	261.50	-1.42043E+06	61.931
1200.0	146.00	-1.10687E+06	261.74	-1.42096E+06	61.851
1250.0	146.00	-1.09957E+06	267.70	-1.43419E+06	59.930
1300.0	146.00	-1.09227E+06	273.43	-1.44772E+06	58.169
1350.0	146.00	-1.08497E+06	278.94	-1.46153E+06	56.549
1400.0	146.00	-1.07767E+06	284.25	-1.47561E+06	55.054
1450.0	146.00	-1.07037E+06	289.37	-1.48995E+06	53.673
1500.0	146.00	-1.06307E+06	294.32	-1.50455E+06	52.392
1550.0	146.00	-1.05577E+06	299.11	-1.51938E+06	51.202
1600.0	146.00	-1.04847E+06	303.74	-1.53446E+06	50.094
1650.0	146.00	-1.04117E+06	308.24	-1.54976E+06	49.060
1700.0	146.00	-1.03387E+06	312.59	-1.56528E+06	48.094
1750.0	146.00	-1.02657E+06	316.83	-1.58101E+06	47.189
1767.0	146.00	-1.02408E+06	318.24	-1.58641E+06	46.895
1767.0	165.00	-9.84085E+05	340.88	-1.58641E+06	46.895
1800.0	165.00	-9.78640E+05	343.93	-1.59771E+06	46.363
1850.0	165.00	-9.70390E+05	348.45	-1.61502E+06	45.599
1900.0	165.00	-9.62140E+05	352.85	-1.63255E+06	44.881
1950.0	165.00	-9.53890E+05	357.14	-1.65030E+06	44.206
2000.0	165.00	-9.45640E+05	361.31	-1.66827E+06	43.570
2050.0	165.00	-9.37390E+05	365.39	-1.68643E+06	42.970
2100.0	165.00	-9.29140E+05	369.36	-1.70480E+06	42.404
2150.0	165.00	-9.20890E+05	373.25	-1.72337E+06	41.868
2200.0	165.00	-9.12640E+05	377.04	-1.74213E+06	41.362
2250.0	165.00	-9.04390E+05	380.75	-1.76107E+06	40.883
2300.0	165.00	-8.96140E+05	384.37	-1.78020E+06	40.429
2350.0	165.00	-8.87890E+05	387.92	-1.79951E+06	39.998
2400.0	165.00	-8.79640E+05	391.40	-1.81899E+06	39.588
2450.0	165.00	-8.71390E+05	394.80	-1.83865E+06	39.199
2500.0	165.00	-8.63140E+05	398.13	-1.85847E+06	38.830

Ta

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.307	0.00000E+00	41.472	-12365.	2.1662
300.00	25.314	46.825	41.629	-12442.	2.1662
350.00	25.524	1317.8	45.546	-14624.	2.1824
400.00	25.736	2599.3	48.969	-16988.	2.2184
450.00	25.946	3891.3	52.012	-19514.	2.2651
500.00	26.153	5193.8	54.756	-22184.	2.3175
550.00	26.358	6506.6	57.259	-24986.	2.3729
600.00	26.558	7829.5	59.561	-27907.	2.4295
650.00	26.754	9162.3	61.694	-30939.	2.4862
700.00	26.945	10505.	63.684	-34074.	2.5426
750.00	27.131	11857.	65.549	-37305.	2.5981
800.00	27.313	13218.	67.306	-40627.	2.6526
850.00	27.490	14588.	68.967	-44034.	2.7059
900.00	27.662	15967.	70.544	-47522.	2.7581
950.00	27.829	17354.	72.044	-51087.	2.8089
1000.0	27.991	18750.	73.475	-54726.	2.8585
1050.0	28.148	20153.	74.845	-58434.	2.9069
1100.0	28.300	21564.	76.158	-62209.	2.9540
1150.0	28.447	22983.	77.419	-66049.	3.0000
1200.0	28.589	24409.	78.633	-69950.	3.0448
1250.0	28.726	25842.	79.803	-73911.	3.0885
1300.0	28.869	27282.	80.932	-77930.	3.1312
1350.0	28.982	28728.	82.023	-82004.	3.1728
1400.0	29.093	30180.	83.080	-86132.	3.2135
1450.0	29.205	31637.	84.102	-90311.	3.2533
1500.0	29.319	33100.	85.094	-94541.	3.2921
1550.0	29.439	34569.	86.058	-98820.	3.3301
1600.0	29.566	36044.	86.994	-1.03147E+05	3.3673
1650.0	29.701	37526.	87.906	-1.07519E+05	3.4037
1700.0	29.846	39015.	88.795	-1.11937E+05	3.4393
1750.0	30.002	40511.	89.662	-1.16398E+05	3.4742
1800.0	30.170	42015.	90.510	-1.20903E+05	3.5084
1850.0	30.351	43528.	91.339	-1.25449E+05	3.5420
1900.0	30.545	45050.	92.151	-1.30036E+05	3.5749
1950.0	30.753	46583.	92.947	-1.34664E+05	3.6071
2000.0	30.975	48126.	93.728	-1.39331E+05	3.6389
2050.0	31.213	49680.	94.496	-1.44036E+05	3.6700
2100.0	31.466	51247.	95.251	-1.48780E+05	3.7006
2150.0	31.736	52827.	95.995	-1.53561E+05	3.7307
2200.0	32.021	54421.	96.728	-1.58379E+05	3.7603
2250.0	32.323	56030.	97.450	-1.63234E+05	3.7894
2300.0	32.642	57654.	98.164	-1.68124E+05	3.8181
2350.0	32.978	59294.	98.870	-1.73050E+05	3.8464
2400.0	33.331	60952.	99.568	-1.78011E+05	3.8742
2450.0	33.701	62627.	100.26	-1.83007E+05	3.9017
2500.0	34.099	64322.	100.94	-1.88037E+05	3.9287
2550.0	34.436	66035.	101.62	-1.93101E+05	3.9554
2600.0	34.834	67767.	102.29	-1.98199E+05	3.9818
2650.0	35.288	69520.	102.96	-2.03331E+05	4.0078
2700.0	35.793	71296.	103.63	-2.08495E+05	4.0335
2750.0	36.345	73100.	104.29	-2.13693E+05	4.0589
2800.0	36.940	74932.	104.95	-2.18924E+05	4.0840
2850.0	37.576	76794.	105.61	-2.24188E+05	4.1088
2900.0	38.248	78690.	106.27	-2.29485E+05	4.1334
2950.0	38.954	80620.	106.93	-2.34815E+05	4.1577
3000.0	39.691	82586.	107.59	-2.40178E+05	4.1818

TaCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	34.977	3.59824E+05	259.27	2.82524E+05	-49.496
300.00	35.005	3.59889E+05	259.48	2.82044E+05	-49.107
350.00	35.612	3.61655E+05	264.93	2.68931E+05	-40.135
400.00	36.017	3.63447E+05	269.71	2.55562E+05	-33.372
450.00	36.305	3.65255E+05	273.97	2.41968E+05	-28.086
500.00	36.520	3.67076E+05	277.81	2.28172E+05	-23.836
550.00	36.688	3.68906E+05	281.30	2.14193E+05	-20.342
600.00	36.823	3.70744E+05	284.49	2.00047E+05	-17.415
650.00	36.935	3.72588E+05	287.45	1.85748E+05	-14.927
700.00	37.031	3.74437E+05	290.19	1.71306E+05	-12.783
750.00	37.115	3.76291E+05	292.75	1.56732E+05	-10.916
800.00	37.189	3.78149E+05	295.14	1.42034E+05	-9.2737
850.00	37.256	3.80010E+05	297.40	1.27220E+05	-7.8178
900.00	37.317	3.81874E+05	299.53	1.12297E+05	-6.5174
950.00	37.374	3.83742E+05	301.55	97269.	-5.3481
1000.0	37.428	3.85612E+05	303.47	82143.	-4.2906
1050.0	37.478	3.87484E+05	305.30	66924.	-3.3292
1100.0	37.526	3.89359E+05	307.04	51615.	-2.4509
1150.0	37.572	3.91237E+05	308.71	36221.	-1.6452
1200.0	37.616	3.93116E+05	310.31	20745.	-0.90300
1250.0	37.659	3.94998E+05	311.85	5191.2	-0.21692
1300.0	37.701	3.96882E+05	313.32	-10438.	0.41940
1350.0	37.741	3.98768E+05	314.75	-26140.	1.0114
1400.0	37.781	4.00656E+05	316.12	-41912.	1.5637
1450.0	37.820	4.02546E+05	317.45	-57751.	2.0804
1500.0	37.858	4.04438E+05	318.73	-73656.	2.5649

TaCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.404	-66944.	298.39	-1.55908E+05	27.314
300.00	57.462	-66838.	298.74	-1.56460E+05	27.241
350.00	58.698	-63931.	307.70	-1.71626E+05	25.613
400.00	59.503	-60975.	315.59	-1.87213E+05	24.447
450.00	60.057	-57985.	322.64	-2.03172E+05	23.583
500.00	60.455	-54972.	328.99	-2.19465E+05	22.927
550.00	60.751	-51941.	334.76	-2.36061E+05	22.419
600.00	60.978	-48898.	340.06	-2.52933E+05	22.019
650.00	61.157	-45844.	344.95	-2.70060E+05	21.702
700.00	61.299	-42783.	349.48	-2.87422E+05	21.447
750.00	61.416	-39715.	353.72	-3.05003E+05	21.242
800.00	61.512	-36642.	357.68	-3.22789E+05	21.075
850.00	61.593	-33564.	361.42	-3.40768E+05	20.941
900.00	61.663	-30482.	364.94	-3.58928E+05	20.831
950.00	61.722	-27398.	368.27	-3.77259E+05	20.743
1000.0	61.774	-24310.	371.44	-3.95752E+05	20.671
1050.0	61.819	-21220.	374.46	-4.14400E+05	20.615
1100.0	61.860	-18128.	377.33	-4.33196E+05	20.570
1150.0	61.896	-15035.	380.08	-4.52132E+05	20.536
1200.0	61.928	-11939.	382.72	-4.71202E+05	20.510
1250.0	61.958	-8841.8	385.25	-4.90402E+05	20.492
1300.0	61.984	-5743.3	387.68	-5.09725E+05	20.480
1350.0	62.009	-2643.4	390.02	-5.29168E+05	20.474
1400.0	62.032	457.63	392.27	-5.48726E+05	20.473
1450.0	62.053	3559.8	394.45	-5.68394E+05	20.475
1500.0	62.073	6662.9	396.55	-5.88170E+05	20.481

TaBr5<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	127.19	-4.85000E+05	457.68	-6.21459E+05	108.87
300.00	127.26	-4.84765E+05	458.47	-6.22306E+05	108.35
350.00	128.78	-4.78361E+05	478.21	-6.45735E+05	96.368
400.00	129.76	-4.71896E+05	495.48	-6.70086E+05	87.502
450.00	130.43	-4.65390E+05	510.80	-6.95250E+05	80.701
500.00	130.92	-4.58855E+05	524.57	-7.21141E+05	75.335
550.00	131.27	-4.52300E+05	537.07	-7.47686E+05	71.008
600.00	131.55	-4.45729E+05	548.50	-7.74830E+05	67.453
650.00	131.76	-4.39147E+05	559.04	-8.02521E+05	64.490
700.00	131.93	-4.32554E+05	568.81	-8.30721E+05	61.988
750.00	132.06	-4.25954E+05	577.92	-8.59391E+05	59.852
800.00	132.18	-4.19348E+05	586.44	-8.88503E+05	58.012
850.00	132.27	-4.12737E+05	594.46	-9.18027E+05	56.414
900.00	132.35	-4.06121E+05	602.02	-9.47941E+05	55.016
950.00	132.41	-3.99502E+05	609.18	-9.78222E+05	53.785
1000.0	132.47	-3.92880E+05	615.97	-1.00885E+06	52.696
1050.0	132.52	-3.86255E+05	622.44	-1.03981E+06	51.727
1100.0	132.56	-3.79628E+05	628.60	-1.07109E+06	50.861
1150.0	132.60	-3.72999E+05	634.50	-1.10267E+06	50.084
1200.0	132.63	-3.66368E+05	640.14	-1.13454E+06	49.384
1250.0	132.66	-3.59735E+05	645.56	-1.16668E+06	48.752
1300.0	132.69	-3.53102E+05	650.76	-1.19909E+06	48.179
1350.0	132.71	-3.46467E+05	655.77	-1.23175E+06	47.658
1400.0	132.73	-3.39830E+05	660.59	-1.26466E+06	47.184
1450.0	132.75	-3.33193E+05	665.25	-1.29781E+06	46.751
1500.0	132.77	-3.26555E+05	669.75	-1.33119E+06	46.355
1550.0	132.79	-3.19916E+05	674.11	-1.36478E+06	45.992
1600.0	132.80	-3.13276E+05	678.32	-1.39859E+06	45.658
1650.0	132.81	-3.06636E+05	682.41	-1.43261E+06	45.352
1700.0	132.83	-2.99995E+05	686.38	-1.46683E+06	45.069
1750.0	132.84	-2.93353E+05	690.23	-1.50125E+06	44.809
1800.0	132.85	-2.86711E+05	693.97	-1.53585E+06	44.568
1850.0	132.86	-2.80068E+05	697.61	-1.57064E+06	44.346
1900.0	132.87	-2.73425E+05	701.15	-1.60561E+06	44.140
1950.0	132.88	-2.66782E+05	704.60	-1.64076E+06	43.950
2000.0	132.88	-2.60138E+05	707.97	-1.67607E+06	43.773
2050.0	132.89	-2.53493E+05	711.25	-1.71155E+06	43.610
2100.0	132.90	-2.46849E+05	714.45	-1.74720E+06	43.458
2150.0	132.90	-2.40203E+05	717.58	-1.78300E+06	43.317
2200.0	132.91	-2.33558E+05	720.63	-1.81895E+06	43.186
2250.0	132.92	-2.26913E+05	723.62	-1.85506E+06	43.065
2300.0	132.92	-2.20267E+05	726.54	-1.89131E+06	42.952
2350.0	132.93	-2.13620E+05	729.40	-1.92771E+06	42.847
2400.0	132.93	-2.06974E+05	732.20	-1.96425E+06	42.750
2450.0	132.93	-2.00327E+05	734.94	-2.00093E+06	42.659
2500.0	132.94	-1.93681E+05	737.63	-2.03775E+06	42.575
2550.0	132.94	-1.87033E+05	740.26	-2.07469E+06	42.497
2600.0	132.95	-1.80386E+05	742.84	-2.11177E+06	42.425
2650.0	132.95	-1.73739E+05	745.37	-2.14898E+06	42.358
2700.0	132.95	-1.67091E+05	747.86	-2.18631E+06	42.296
2750.0	132.96	-1.60443E+05	750.30	-2.22376E+06	42.238
2800.0	132.96	-1.53795E+05	752.69	-2.26134E+06	42.185
2850.0	132.96	-1.47147E+05	755.05	-2.29903E+06	42.135
2900.0	132.97	-1.40499E+05	757.36	-2.33684E+06	42.090
2950.0	132.97	-1.33851E+05	759.63	-2.37476E+06	42.048
3000.0	132.97	-1.27202E+05	761.87	-2.41280E+06	42.010

Tb

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	28.911	0.00000E+00	32.070	-9561.7	1.6751
300.00	28.882	53.459	32.249	-9621.2	1.6752
350.00	28.398	1483.2	36.658	-11347.	1.6934
400.00	28.337	2900.2	40.442	-13277.	1.7337
450.00	28.528	4321.0	43.789	-15384.	1.7857
500.00	28.882	5755.7	46.812	-17650.	1.8438
550.00	29.348	7211.0	49.585	-20061.	1.9052
600.00	29.896	8691.9	52.162	-22605.	1.9679
650.00	30.506	10202.	54.579	-25274.	2.0310
700.00	31.167	11743.	56.863	-28061.	2.0939
750.00	31.868	13319.	59.037	-30959.	2.1561
800.00	32.605	14931.	61.117	-33963.	2.2175
850.00	33.372	16580.	63.117	-37069.	2.2779
900.00	34.168	18268.	65.047	-40274.	2.3374
950.00	34.989	19997.	66.916	-43573.	2.3958
1000.0	35.834	21768.	68.732	-46964.	2.4531
1050.0	36.701	23581.	70.501	-50445.	2.5095
1100.0	37.590	25438.	72.229	-54014.	2.5648
1150.0	38.499	27340.	73.920	-57668.	2.6193
1200.0	39.428	29288.	75.578	-61405.	2.6728
1250.0	40.376	31283.	77.207	-65225.	2.7255
1300.0	41.343	33326.	78.809	-69126.	2.7774
1350.0	42.329	35418.	80.388	-73106.	2.8286
1400.0	43.334	37560.	81.945	-77164.	2.8790
1450.0	44.356	39752.	83.484	-81300.	2.9287
1500.0	45.396	41995.	85.005	-85512.	2.9777
1550.0	46.454	44292.	86.511	-89800.	3.0262
1562.0	46.710	44851.	86.870	-90840.	3.0377
1562.0	46.484	49231.	89.674	-90840.	3.0377
1600.0	46.484	50998.	90.792	-94269.	3.0775
1632.0	46.484	52485.	91.712	-97189.	3.1106
1632.0	46.484	62635.	97.932	-97189.	3.1106
1650.0	46.484	63472.	98.442	-98957.	3.1326
1700.0	46.484	65796.	99.829	-1.03914E+05	3.1928
1750.0	46.484	68121.	101.18	-1.08939E+05	3.2516
1800.0	46.484	70445.	102.49	-1.14031E+05	3.3090
1850.0	46.484	72769.	103.76	-1.19187E+05	3.3652
1900.0	46.484	75093.	105.00	-1.24406E+05	3.4201
1950.0	46.484	77417.	106.21	-1.29686E+05	3.4738
2000.0	46.484	79742.	107.38	-1.35026E+05	3.5264
2050.0	46.484	82066.	108.53	-1.40424E+05	3.5780
2100.0	46.484	84390.	109.65	-1.45879E+05	3.6285
2150.0	46.484	86714.	110.75	-1.51389E+05	3.6779
2200.0	46.484	89038.	111.81	-1.56953E+05	3.7265
2250.0	46.484	91363.	112.86	-1.62570E+05	3.7740
2300.0	46.484	93687.	113.88	-1.68239E+05	3.8207
2350.0	46.484	96011.	114.88	-1.73958E+05	3.8666
2400.0	46.484	98335.	115.86	-1.79727E+05	3.9115
2450.0	46.484	1.00660E+05	116.82	-1.85543E+05	3.9557
2500.0	46.484	1.02984E+05	117.76	-1.91408E+05	3.9991
2550.0	46.484	1.05308E+05	118.68	-1.97319E+05	4.0418
2600.0	46.484	1.07632E+05	119.58	-2.03275E+05	4.0837
2650.0	46.484	1.09956E+05	120.47	-2.09277E+05	4.1250
2700.0	46.484	1.12281E+05	121.33	-2.15322E+05	4.1655
2750.0	46.484	1.14605E+05	122.19	-2.21410E+05	4.2054
2800.0	46.484	1.16929E+05	123.02	-2.27540E+05	4.2447
2850.0	46.484	1.19253E+05	123.85	-2.33712E+05	4.2834
2900.0	46.484	1.21577E+05	124.66	-2.39925E+05	4.3214
2950.0	46.484	1.23902E+05	125.45	-2.46177E+05	4.3589
3000.0	46.484	1.26226E+05	126.23	-2.52469E+05	4.3958

TbBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.937	-5.40573E+05	402.44	-6.60560E+05	115.72
300.00	79.988	-5.40425E+05	402.93	-6.61305E+05	115.14
350.00	81.133	-5.36395E+05	415.36	-6.81769E+05	101.75
400.00	81.959	-5.32317E+05	426.25	-7.02815E+05	91.776
450.00	82.598	-5.28202E+05	435.94	-7.24374E+05	84.081
500.00	83.123	-5.24059E+05	444.67	-7.46393E+05	77.973
550.00	83.572	-5.19891E+05	452.61	-7.68828E+05	73.015
600.00	83.970	-5.15703E+05	459.90	-7.91643E+05	68.917
650.00	84.331	-5.11495E+05	466.64	-8.14809E+05	65.477
700.00	84.667	-5.07270E+05	472.90	-8.38299E+05	62.553
750.00	84.983	-5.03029E+05	478.75	-8.62092E+05	60.040
800.00	85.284	-4.98772E+05	484.25	-8.86168E+05	57.859
850.00	85.573	-4.94500E+05	489.42	-9.10511E+05	55.952
900.00	85.854	-4.90215E+05	494.32	-9.35106E+05	54.271
950.00	86.128	-4.85915E+05	498.97	-9.59939E+05	52.780
1000.0	86.396	-4.81602E+05	503.40	-9.84999E+05	51.450
1050.0	86.660	-4.77276E+05	507.62	-1.01028E+06	50.257
1100.0	86.919	-4.72936E+05	511.66	-1.03576E+06	49.183
1150.0	87.176	-4.68584E+05	515.53	-1.06144E+06	48.211
1200.0	87.429	-4.64219E+05	519.24	-1.08731E+06	47.328
1250.0	87.681	-4.59841E+05	522.82	-1.11336E+06	46.524
1300.0	87.931	-4.55450E+05	526.26	-1.13959E+06	45.788
1350.0	88.179	-4.51048E+05	529.58	-1.16598E+06	45.113
1400.0	88.425	-4.46633E+05	532.79	-1.19254E+06	44.493
1450.0	88.671	-4.42205E+05	535.90	-1.21926E+06	43.921
1500.0	88.915	-4.37766E+05	538.91	-1.24613E+06	43.393
1550.0	89.158	-4.33314E+05	541.83	-1.27315E+06	42.904
1600.0	89.401	-4.28850E+05	544.67	-1.30031E+06	42.450
1650.0	89.643	-4.24374E+05	547.42	-1.32762E+06	42.028
1700.0	89.884	-4.19885E+05	550.10	-1.35505E+06	41.635
1750.0	90.125	-4.15385E+05	552.71	-1.38263E+06	41.268
1800.0	90.365	-4.10873E+05	555.25	-1.41032E+06	40.926
1850.0	90.605	-4.06349E+05	557.73	-1.43815E+06	40.605
1900.0	90.844	-4.01813E+05	560.15	-1.46610E+06	40.305
1950.0	91.084	-3.97264E+05	562.51	-1.49416E+06	40.023
2000.0	91.322	-3.92704E+05	564.82	-1.52235E+06	39.759

Tc

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.665	0.00000E+00	32.985	-9834.5	1.7229
300.00	24.693	45.656	33.138	-9895.6	1.7229
350.00	25.365	1297.8	36.997	-11651.	1.7388
400.00	25.905	2580.0	40.420	-13588.	1.7744
450.00	26.368	3887.1	43.499	-15687.	1.8209
500.00	26.783	5216.0	46.299	-17933.	1.8734
550.00	27.167	6564.9	48.870	-20313.	1.9292
600.00	27.530	7932.4	51.249	-22817.	1.9864
650.00	27.878	9317.7	53.467	-25436.	2.0440
700.00	28.215	10720.	55.545	-28161.	2.1014
750.00	28.544	12139.	57.503	-30988.	2.1581
800.00	28.867	13574.	59.355	-33910.	2.2140
850.00	29.186	15026.	61.115	-36922.	2.2689
900.00	29.500	16493.	62.792	-40020.	2.3226
950.00	29.812	17976.	64.396	-43200.	2.3752
1000.0	30.121	19474.	65.933	-46459.	2.4267
1050.0	30.429	20988.	67.410	-49792.	2.4770
1100.0	30.734	22517.	68.832	-53199.	2.5261
1150.0	31.039	24061.	70.205	-56675.	2.5742
1200.0	31.342	25621.	71.533	-60218.	2.6212
1250.0	31.645	27195.	72.818	-63827.	2.6671
1300.0	31.946	28785.	74.065	-67500.	2.7121
1350.0	32.247	30390.	75.277	-71233.	2.7561
1400.0	32.548	32010.	76.455	-75027.	2.7992
1450.0	32.847	33645.	77.602	-78878.	2.8414
1500.0	33.147	35295.	78.721	-82786.	2.8828
1550.0	33.446	36959.	79.812	-86750.	2.9234
1600.0	33.745	38639.	80.879	-90767.	2.9632
1650.0	34.043	40334.	81.922	-94837.	3.0022
1700.0	34.341	42044.	82.943	-98959.	3.0406
1750.0	34.639	43768.	83.942	-1.03131E+05	3.0782
1800.0	34.937	45507.	84.922	-1.07353E+05	3.1152
1850.0	35.235	47262.	85.884	-1.11623E+05	3.1516
1900.0	35.532	49031.	86.827	-1.15941E+05	3.1874
1950.0	35.829	50815.	87.754	-1.20306E+05	3.2225
2000.0	36.126	52614.	88.665	-1.24716E+05	3.2572
2050.0	36.423	54428.	89.561	-1.29172E+05	3.2913
2100.0	36.720	56256.	90.442	-1.33672E+05	3.3248
2150.0	37.017	58100.	91.310	-1.38216E+05	3.3579
2200.0	37.314	59958.	92.164	-1.42803E+05	3.3905
2250.0	37.611	61831.	93.006	-1.47432E+05	3.4226
2300.0	37.907	63719.	93.836	-1.52103E+05	3.4543
2350.0	38.204	65622.	94.654	-1.56815E+05	3.4855
2400.0	38.500	67539.	95.462	-1.61568E+05	3.5164
2430.0	38.678	68697.	95.941	-1.64440E+05	3.5347
2430.0	47.000	1.01989E+05	109.64	-1.64440E+05	3.5347
2450.0	47.000	1.02928E+05	110.03	-1.66636E+05	3.5526
2500.0	47.000	1.05278E+05	110.98	-1.72161E+05	3.5970
2550.0	47.000	1.07628E+05	111.91	-1.77733E+05	3.6406
2600.0	47.000	1.09978E+05	112.82	-1.83351E+05	3.6835
2650.0	47.000	1.12328E+05	113.71	-1.89015E+05	3.7256
2700.0	47.000	1.14678E+05	114.59	-1.94723E+05	3.7670
2750.0	47.000	1.17028E+05	115.46	-2.00474E+05	3.8078
2800.0	47.000	1.19378E+05	116.30	-2.06268E+05	3.8479
2850.0	47.000	1.21728E+05	117.13	-2.12104E+05	3.8873
2900.0	47.000	1.24078E+05	117.95	-2.17981E+05	3.9262
2950.0	47.000	1.26428E+05	118.75	-2.23899E+05	3.9644
3000.0	47.000	1.28778E+05	119.54	-2.29856E+05	4.0021

Te

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.534	0.00000E+00	49.221	-14675.	2.5710
300.00	25.553	47.256	49.379	-14766.	2.5710
350.00	25.906	1334.8	53.348	-17337.	2.5873
400.00	26.094	2635.2	56.820	-20093.	2.6238
450.00	26.254	3943.8	59.903	-23012.	2.6712
500.00	26.455	5261.3	62.679	-26078.	2.7243
550.00	26.737	6590.7	65.213	-29276.	2.7804
600.00	27.126	7936.8	67.555	-32596.	2.8377
650.00	27.635	9305.2	69.745	-36029.	2.8953
700.00	28.275	10702.	71.816	-39569.	2.9526
722.66	28.610	11347.	72.722	-41206.	2.9784
722.66	44.800	28723.	96.767	-41206.	2.9784
750.00	42.024	29908.	98.377	-43874.	3.0556
800.00	38.290	31910.	100.96	-48860.	3.1901
850.00	35.858	33759.	103.20	-53965.	3.3162
900.00	34.343	35511.	105.21	-59176.	3.4344
950.00	33.459	37204.	107.04	-64483.	3.5454
1000.0	32.987	38864.	108.74	-69878.	3.6500
1050.0	32.762	40507.	110.34	-75355.	3.7486
1100.0	32.654	42142.	111.87	-80911.	3.8420
1150.0	32.560	43772.	113.32	-86541.	3.9307
1200.0	32.560	45400.	114.70	-92241.	4.0151
1250.0	32.560	47028.	116.03	-98010.	4.0955
1300.0	32.560	48656.	117.31	-1.03844E+05	4.1724
1350.0	32.560	50284.	118.54	-1.09740E+05	4.2460
1400.0	32.560	51912.	119.72	-1.15697E+05	4.3166
1450.0	32.560	53540.	120.86	-1.21711E+05	4.3844
1500.0	32.560	55168.	121.97	-1.27782E+05	4.4497
1550.0	32.560	56796.	123.03	-1.33907E+05	4.5125
1600.0	32.560	58424.	124.07	-1.40085E+05	4.5732

Te2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.705	1.63176E+05	258.94	85972.	-15.062
300.00	36.720	1.63244E+05	259.17	85493.	-14.885
350.00	37.177	1.65091E+05	264.86	72388.	-10.803
400.00	37.715	1.66963E+05	269.86	59018.	-7.7067
450.00	38.334	1.68864E+05	274.34	45411.	-5.2710
500.00	39.036	1.70798E+05	278.41	31590.	-3.3001
550.00	39.798	1.72769E+05	282.17	17574.	-1.6690
600.00	40.534	1.74777E+05	285.67	3377.5	-0.29403
650.00	41.223	1.76821E+05	288.94	-10988.	0.88302
700.00	41.853	1.78898E+05	292.02	-25513.	1.9038
750.00	42.415	1.81005E+05	294.92	-40187.	2.7988
800.00	42.904	1.83139E+05	297.68	-55003.	3.5912
850.00	43.313	1.85294E+05	300.29	-69953.	4.2987
900.00	43.641	1.87469E+05	302.78	-85030.	4.9349
950.00	43.885	1.89657E+05	305.14	-1.00228E+05	5.5108
1000.0	44.044	1.91856E+05	307.40	-1.15542E+05	6.0352
1050.0	44.156	1.94061E+05	309.55	-1.30966E+05	6.5151
1100.0	44.235	1.96271E+05	311.61	-1.46496E+05	6.9563
1150.0	44.289	1.98484E+05	313.57	-1.62125E+05	7.3638
1200.0	44.325	2.00699E+05	315.46	-1.77852E+05	7.7415
1250.0	44.350	2.02916E+05	317.27	-1.93670E+05	8.0928
1300.0	44.368	2.05134E+05	319.01	-2.09577E+05	8.4207
1350.0	44.383	2.07353E+05	320.68	-2.25570E+05	8.7276
1400.0	44.398	2.09573E+05	322.30	-2.41645E+05	9.0156
1450.0	44.416	2.11793E+05	323.86	-2.57799E+05	9.2867
1500.0	44.439	2.14014E+05	325.36	-2.74029E+05	9.5423
1550.0	44.470	2.16237E+05	326.82	-2.90334E+05	9.7839
1600.0	44.509	2.18461E+05	328.23	-3.06711E+05	10.013
1650.0	44.558	2.20688E+05	329.60	-3.23157E+05	10.230
1700.0	44.619	2.22917E+05	330.93	-3.39670E+05	10.437
1750.0	44.691	2.25150E+05	332.23	-3.56249E+05	10.633
1800.0	44.777	2.27387E+05	333.49	-3.72893E+05	10.821
1850.0	44.876	2.29628E+05	334.72	-3.89598E+05	11.000
1900.0	44.990	2.31875E+05	335.91	-4.06364E+05	11.171
1950.0	45.119	2.34127E+05	337.09	-4.23189E+05	11.336
2000.0	45.263	2.36387E+05	338.23	-4.40072E+05	11.493
2050.0	45.423	2.38654E+05	339.35	-4.57011E+05	11.644
2100.0	45.599	2.40929E+05	340.45	-4.74006E+05	11.790
2150.0	45.779	2.43214E+05	341.52	-4.91055E+05	11.930
2200.0	45.960	2.45507E+05	342.58	-5.08158E+05	12.065
2250.0	46.140	2.47810E+05	343.61	-5.25313E+05	12.195
2300.0	46.320	2.50121E+05	344.63	-5.42519E+05	12.321
2350.0	46.500	2.52442E+05	345.62	-5.59775E+05	12.442
2400.0	46.680	2.54771E+05	346.60	-5.77081E+05	12.560
2450.0	46.860	2.57110E+05	347.57	-5.94435E+05	12.673
2500.0	47.041	2.59457E+05	348.52	-6.11837E+05	12.783
2550.0	47.221	2.61814E+05	349.45	-6.29287E+05	12.890
2600.0	47.401	2.64179E+05	350.37	-6.46782E+05	12.994
2650.0	47.581	2.66554E+05	351.27	-6.64323E+05	13.094
2700.0	47.761	2.68937E+05	352.17	-6.81910E+05	13.192
2750.0	47.941	2.71330E+05	353.04	-6.99540E+05	13.287
2800.0	48.122	2.73732E+05	353.91	-7.17214E+05	13.379
2850.0	48.302	2.76142E+05	354.76	-7.34931E+05	13.469
2900.0	48.482	2.78562E+05	355.60	-7.52690E+05	13.557
2950.0	48.662	2.80990E+05	356.43	-7.70491E+05	13.642
3000.0	48.842	2.83428E+05	357.25	-7.88333E+05	13.726

TeCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	54.346	-1.12968E+05	305.66	-2.04101E+05	35.757
300.00	54.392	-1.12867E+05	306.00	-2.04667E+05	35.635
350.00	55.369	-1.10122E+05	314.46	-2.20184E+05	32.860
400.00	56.004	-1.07336E+05	321.90	-2.36096E+05	30.830
450.00	56.441	-1.04524E+05	328.52	-2.52360E+05	29.292
500.00	56.755	-1.01694E+05	334.49	-2.68938E+05	28.095
550.00	56.988	-98850.	339.91	-2.85800E+05	27.142
600.00	57.167	-95996.	344.87	-3.02921E+05	26.371
650.00	57.307	-93134.	349.46	-3.20281E+05	25.737
700.00	57.419	-90266.	353.71	-3.37861E+05	25.211
750.00	57.510	-87393.	357.67	-3.55647E+05	24.769
800.00	57.586	-84515.	361.39	-3.73624E+05	24.395
850.00	57.649	-81634.	364.88	-3.91782E+05	24.075
900.00	57.703	-78750.	368.18	-4.10109E+05	23.802
950.00	57.750	-75864.	371.30	-4.28597E+05	23.565
1000.0	57.790	-72975.	374.26	-4.47236E+05	23.361
1050.0	57.825	-70085.	377.08	-4.66020E+05	23.183
1100.0	57.856	-67193.	379.77	-4.84942E+05	23.027
1150.0	57.884	-64300.	382.34	-5.03995E+05	22.892
1200.0	57.909	-61405.	384.81	-5.23175E+05	22.773
1250.0	57.931	-58509.	387.17	-5.42475E+05	22.668
1300.0	57.952	-55612.	389.45	-5.61890E+05	22.576
1350.0	57.971	-52714.	391.63	-5.81418E+05	22.496
1400.0	57.988	-49815.	393.74	-6.01052E+05	22.425
1450.0	58.004	-46915.	395.78	-6.20791E+05	22.363
1500.0	58.019	-44014.	397.74	-6.40629E+05	22.308
1550.0	58.033	-41113.	399.65	-6.60564E+05	22.260
1600.0	58.046	-38211.	401.49	-6.80593E+05	22.219
1650.0	58.058	-35308.	403.27	-7.00712E+05	22.182
1700.0	58.070	-32405.	405.01	-7.20919E+05	22.151
1750.0	58.081	-29501.	406.69	-7.41212E+05	22.123
1800.0	58.091	-26597.	408.33	-7.61588E+05	22.100
1850.0	58.101	-23692.	409.92	-7.82044E+05	22.080
1900.0	58.111	-20787.	411.47	-8.02579E+05	22.064
1950.0	58.120	-17881.	412.98	-8.23190E+05	22.050
2000.0	58.129	-14975.	414.45	-8.43876E+05	22.039

Th

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.242	0.00000E+00	51.800	-15444.	2.7057
300.00	26.258	48.562	51.962	-15540.	2.7057
350.00	26.674	1371.9	56.042	-18243.	2.7225
400.00	27.080	2715.8	59.630	-21136.	2.7600
450.00	27.486	4079.9	62.843	-24199.	2.8089
500.00	27.897	5464.5	65.760	-27416.	2.8640
550.00	28.319	6869.8	68.439	-30771.	2.9223
600.00	28.752	8296.6	70.921	-34256.	2.9822
650.00	29.197	9745.2	73.240	-37861.	3.0425
700.00	29.657	11217.	75.420	-41578.	3.1025
750.00	30.130	12711.	77.483	-45401.	3.1619
800.00	30.619	14230.	79.443	-49324.	3.2205
850.00	31.122	15773.	81.314	-53344.	3.2780
900.00	31.640	17342.	83.107	-57454.	3.3345
950.00	32.174	18938.	84.832	-61653.	3.3898
1000.0	32.722	20560.	86.497	-65937.	3.4441
1050.0	33.287	22210.	88.107	-70302.	3.4972
1100.0	33.867	23889.	89.669	-74747.	3.5493
1150.0	34.462	25597.	91.187	-79268.	3.6004
1200.0	35.073	27335.	92.667	-83865.	3.6504
1250.0	35.700	29105.	94.111	-88534.	3.6995
1300.0	36.343	30906.	95.524	-93275.	3.7477
1350.0	37.001	32739.	96.908	-98086.	3.7951
1400.0	37.675	34606.	98.265	-1.02966E+05	3.8416
1450.0	38.365	36507.	99.599	-1.07912E+05	3.8873
1500.0	39.070	38443.	100.91	-1.12925E+05	3.9323
1550.0	39.792	40414.	102.20	-1.18003E+05	3.9766
1600.0	40.529	42422.	103.48	-1.23145E+05	4.0202
1633.2	41.027	43776.	104.32	-1.26595E+05	4.0488
1633.2	35.231	47373.	106.52	-1.26595E+05	4.0488
1650.0	35.448	47967.	106.88	-1.28387E+05	4.0643
1700.0	36.071	49755.	107.95	-1.33758E+05	4.1098
1750.0	36.671	51573.	109.00	-1.39182E+05	4.1542
1800.0	37.259	53422.	110.04	-1.44658E+05	4.1978
1850.0	37.844	55299.	111.07	-1.50186E+05	4.2404
1900.0	38.435	57206.	112.09	-1.55765E+05	4.2822
1950.0	39.039	59143.	113.10	-1.61395E+05	4.3232
2000.0	39.662	61110.	114.09	-1.67075E+05	4.3634
2023.0	39.956	62026.	114.55	-1.69703E+05	4.3817
2023.0	46.024	75833.	121.37	-1.69703E+05	4.3817
2050.0	46.024	77076.	121.98	-1.72990E+05	4.4077
2100.0	46.024	79377.	123.09	-1.79117E+05	4.4552
2150.0	46.024	81678.	124.18	-1.85298E+05	4.5017
2200.0	46.024	83979.	125.23	-1.91534E+05	4.5475
2250.0	46.024	86281.	126.27	-1.97821E+05	4.5924
2300.0	46.024	88582.	127.28	-2.04160E+05	4.6365
2350.0	46.024	90883.	128.27	-2.10549E+05	4.6799
2400.0	46.024	93184.	129.24	-2.16987E+05	4.7225
2450.0	46.024	95485.	130.19	-2.23472E+05	4.7644
2500.0	46.024	97787.	131.12	-2.30005E+05	4.8056
2550.0	46.024	1.00088E+05	132.03	-2.36584E+05	4.8461
2600.0	46.024	1.02389E+05	132.92	-2.43207E+05	4.8860
2650.0	46.024	1.04690E+05	133.80	-2.49875E+05	4.9252
2700.0	46.024	1.06991E+05	134.66	-2.56587E+05	4.9638
2750.0	46.024	1.09293E+05	135.50	-2.63341E+05	5.0019
2800.0	46.024	1.11594E+05	136.33	-2.70137E+05	5.0393
2850.0	46.024	1.13895E+05	137.15	-2.76974E+05	5.0762
2900.0	46.024	1.16196E+05	137.95	-2.83852E+05	5.1126
2950.0	46.024	1.18497E+05	138.73	-2.90769E+05	5.1484
3000.0	46.024	1.20799E+05	139.51	-2.97725E+05	5.1837

Th<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.791	6.02000E+05	190.17	5.45301E+05	-95.532
300.00	20.791	6.02038E+05	190.30	5.44950E+05	-94.882
350.00	20.795	6.03078E+05	193.50	5.35352E+05	-79.895
400.00	20.833	6.04119E+05	196.28	5.25606E+05	-68.635
450.00	20.928	6.05162E+05	198.74	5.15730E+05	-59.863
500.00	21.092	6.06212E+05	200.95	5.05737E+05	-52.833
550.00	21.331	6.07273E+05	202.97	4.95638E+05	-47.071
600.00	21.651	6.08347E+05	204.84	4.85442E+05	-42.260
650.00	22.054	6.09439E+05	206.59	4.75156E+05	-38.183
700.00	22.541	6.10554E+05	208.24	4.64784E+05	-34.682
750.00	23.096	6.11694E+05	209.82	4.54333E+05	-31.642
800.00	23.744	6.12865E+05	211.33	4.43804E+05	-28.977
850.00	24.457	6.14070E+05	212.79	4.33201E+05	-26.621
900.00	25.212	6.15311E+05	214.21	4.22526E+05	-24.522
950.00	25.992	6.16591E+05	215.59	4.11781E+05	-22.641
1000.0	26.785	6.17911E+05	216.94	4.00968E+05	-20.944
1050.0	27.581	6.19270E+05	218.27	3.90087E+05	-19.405
1100.0	28.373	6.20669E+05	219.57	3.79141E+05	-18.003
1150.0	29.155	6.22107E+05	220.85	3.68130E+05	-16.721
1200.0	29.922	6.23584E+05	222.11	3.57056E+05	-15.542
1250.0	30.670	6.25099E+05	223.34	3.45920E+05	-14.455
1300.0	31.397	6.26651E+05	224.56	3.34722E+05	-13.449
1350.0	32.099	6.28238E+05	225.76	3.23464E+05	-12.515
1400.0	32.776	6.29860E+05	226.94	3.12147E+05	-11.646
1450.0	33.424	6.31515E+05	228.10	3.00771E+05	-10.835
1500.0	34.043	6.33202E+05	229.24	2.89337E+05	-10.075
1550.0	34.632	6.34919E+05	230.37	2.77847E+05	-9.3631
1600.0	35.189	6.36665E+05	231.48	2.66301E+05	-8.6936
1650.0	35.713	6.38437E+05	232.57	2.54699E+05	-8.0629
1700.0	36.204	6.40236E+05	233.64	2.43044E+05	-7.4676
1750.0	36.678	6.42058E+05	234.70	2.31336E+05	-6.9048
1800.0	37.122	6.43903E+05	235.74	2.19575E+05	-6.3717
1850.0	37.539	6.45769E+05	236.76	2.07762E+05	-5.8660
1900.0	37.933	6.47656E+05	237.77	1.95899E+05	-5.3855
1950.0	38.306	6.49562E+05	238.76	1.83986E+05	-4.9283
2000.0	38.659	6.51487E+05	239.73	1.72023E+05	-4.4927
2050.0	38.995	6.53428E+05	240.69	1.60013E+05	-4.0771
2100.0	39.314	6.55386E+05	241.63	1.47954E+05	-3.6801
2150.0	39.619	6.57359E+05	242.56	1.35849E+05	-3.3004
2200.0	39.911	6.59348E+05	243.48	1.23698E+05	-2.9369
2250.0	40.191	6.61350E+05	244.38	1.11502E+05	-2.5885
2300.0	40.459	6.63366E+05	245.26	99261.	-2.2542
2350.0	40.717	6.65396E+05	246.14	86976.	-1.9332
2400.0	40.966	6.67438E+05	247.00	74648.	-1.6246
2450.0	41.205	6.69492E+05	247.84	62277.	-1.3277
2500.0	41.436	6.71558E+05	248.68	49863.	-1.0418
2550.0	41.660	6.73636E+05	249.50	37409.	-0.76627
2600.0	41.876	6.75724E+05	250.31	24914.	-0.50051
2650.0	42.086	6.77823E+05	251.11	12378.	-0.24398
2700.0	42.290	6.79933E+05	251.90	-197.38	3.8E-03
2750.0	42.488	6.82052E+05	252.68	-12812.	0.24335
2800.0	42.680	6.84181E+05	253.45	-25465.	0.47504
2850.0	42.867	6.86320E+05	254.20	-38156.	0.69931
2900.0	43.049	6.88468E+05	254.95	-50885.	0.91652
2950.0	43.227	6.90625E+05	255.69	-63651.	1.1270
3000.0	43.401	6.92791E+05	256.41	-76454.	1.3311

ThBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	104.87	-7.60580E+05	429.89	-8.88752E+05	155.70
300.00	104.91	-7.60386E+05	430.54	-8.89548E+05	154.88
350.00	105.73	-7.55119E+05	446.78	-9.11491E+05	136.03
400.00	106.27	-7.49818E+05	460.93	-9.34191E+05	121.99
450.00	106.64	-7.44494E+05	473.47	-9.57557E+05	111.15
500.00	106.91	-7.39155E+05	484.72	-9.81517E+05	102.54
550.00	107.10	-7.33805E+05	494.92	-1.00601E+06	95.541
600.00	107.25	-7.28446E+05	504.25	-1.03099E+06	89.754
650.00	107.37	-7.23080E+05	512.84	-1.05642E+06	84.893
700.00	107.47	-7.17709E+05	520.80	-1.08227E+06	80.758
750.00	107.54	-7.12333E+05	528.22	-1.10850E+06	77.201
800.00	107.61	-7.06954E+05	535.16	-1.13508E+06	74.111
850.00	107.66	-7.01573E+05	541.68	-1.16200E+06	71.406
900.00	107.70	-6.96189E+05	547.84	-1.18924E+06	69.020
950.00	107.74	-6.90802E+05	553.66	-1.21678E+06	66.902
1000.0	107.78	-6.85414E+05	559.19	-1.24461E+06	65.010
1050.0	107.81	-6.80025E+05	564.45	-1.27270E+06	63.312
1100.0	107.83	-6.74634E+05	569.47	-1.30105E+06	61.780
1150.0	107.85	-6.69242E+05	574.26	-1.32964E+06	60.393
1200.0	107.87	-6.63849E+05	578.85	-1.35847E+06	59.131
1250.0	107.89	-6.58455E+05	583.25	-1.38752E+06	57.980
1300.0	107.91	-6.53060E+05	587.49	-1.41679E+06	56.926
1350.0	107.92	-6.47664E+05	591.56	-1.44627E+06	55.958
1400.0	107.94	-6.42267E+05	595.48	-1.47594E+06	55.067
1450.0	107.95	-6.36870E+05	599.27	-1.50581E+06	54.244
1500.0	107.96	-6.31472E+05	602.93	-1.53587E+06	53.482
1550.0	107.97	-6.26074E+05	606.47	-1.56611E+06	52.776
1600.0	107.98	-6.20675E+05	609.90	-1.59651E+06	52.120
1650.0	107.99	-6.15276E+05	613.22	-1.62709E+06	51.508
1700.0	108.00	-6.09876E+05	616.45	-1.65784E+06	50.938
1750.0	108.01	-6.04476E+05	619.58	-1.68874E+06	50.405
1800.0	108.02	-5.99075E+05	622.62	-1.71979E+06	49.906
1850.0	108.02	-5.93674E+05	625.58	-1.75100E+06	49.438
1900.0	108.03	-5.88273E+05	628.46	-1.78235E+06	48.999
1950.0	108.04	-5.82871E+05	631.27	-1.81384E+06	48.586
2000.0	108.04	-5.77469E+05	634.00	-1.84547E+06	48.198

Ti

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.151	0.00000E+00	30.720	-9159.2	1.6046
300.00	25.188	46.564	30.876	-9216.1	1.6046
350.00	26.074	1328.9	34.828	-10861.	1.6208
400.00	26.805	2651.4	38.358	-12692.	1.6573
450.00	27.446	4008.0	41.553	-14691.	1.7052
500.00	28.030	5395.1	44.476	-16843.	1.7595
550.00	28.575	6810.4	47.173	-19135.	1.8172
600.00	29.093	8252.1	49.682	-21557.	1.8766
650.00	29.590	9719.3	52.030	-24100.	1.9367
700.00	30.072	11211.	54.241	-26758.	1.9966
750.00	30.542	12726.	56.332	-29522.	2.0561
800.00	31.001	14265.	58.317	-32389.	2.1147
850.00	31.452	15826.	60.210	-35352.	2.1724
900.00	31.891	17410.	62.021	-38409.	2.2291
950.00	32.372	19017.	63.758	-41553.	2.2847
1000.0	32.855	20647.	65.431	-44783.	2.3392
1050.0	33.339	22302.	67.045	-48095.	2.3926
1100.0	33.825	23981.	68.607	-51487.	2.4449
1150.0	34.313	25685.	70.122	-54955.	2.4961
1155.0	34.362	25856.	70.271	-55306.	2.5012
1155.0	29.334	30026.	73.881	-55306.	2.5012
1200.0	29.541	31351.	75.006	-58656.	2.5532
1250.0	29.823	32835.	76.218	-62437.	2.6090
1300.0	30.155	34334.	77.394	-66278.	2.6630
1350.0	30.533	35851.	78.539	-70176.	2.7152
1400.0	30.954	37388.	79.656	-74131.	2.7658
1450.0	31.417	38947.	80.751	-78141.	2.8149
1500.0	31.918	40530.	81.824	-82206.	2.8626
1550.0	32.457	42140.	82.879	-86323.	2.9090
1600.0	33.032	43777.	83.919	-90493.	2.9542
1650.0	33.641	45443.	84.944	-94715.	2.9984
1700.0	34.283	47141.	85.958	-98988.	3.0414
1750.0	34.958	48872.	86.962	-1.03311E+05	3.0836
1800.0	35.665	50638.	87.956	-1.07684E+05	3.1248
1850.0	36.403	52439.	88.943	-1.12106E+05	3.1652
1900.0	37.172	54278.	89.924	-1.16578E+05	3.2049
1941.0	37.824	55816.	90.725	-1.20281E+05	3.2368
1941.0	46.290	69962.	98.013	-1.20281E+05	3.2368
1950.0	46.290	70378.	98.227	-1.21164E+05	3.2455
2000.0	46.290	72693.	99.399	-1.26105E+05	3.2934
2050.0	46.290	75007.	100.54	-1.31104E+05	3.3405
2100.0	46.290	77322.	101.66	-1.36159E+05	3.3867
2150.0	46.290	79636.	102.75	-1.41269E+05	3.4321
2200.0	46.290	81951.	103.81	-1.46433E+05	3.4767
2250.0	46.290	84265.	104.85	-1.51650E+05	3.5205
2300.0	46.290	86580.	105.87	-1.56918E+05	3.5636
2350.0	46.290	88894.	106.86	-1.62236E+05	3.6060
2400.0	46.290	91209.	107.84	-1.67604E+05	3.6477
2450.0	46.290	93523.	108.79	-1.73020E+05	3.6887
2500.0	46.290	95838.	109.73	-1.78483E+05	3.7291
2550.0	46.290	98152.	110.65	-1.83992E+05	3.7688
2600.0	46.290	1.00467E+05	111.54	-1.89547E+05	3.8080
2650.0	46.290	1.02781E+05	112.43	-1.95146E+05	3.8465
2700.0	46.290	1.05096E+05	113.29	-2.00789E+05	3.8844
2750.0	46.290	1.07410E+05	114.14	-2.06475E+05	3.9218
2800.0	46.290	1.09725E+05	114.97	-2.12203E+05	3.9586
2850.0	46.290	1.12039E+05	115.79	-2.17972E+05	3.9949
2900.0	46.290	1.14354E+05	116.60	-2.23782E+05	4.0307
2950.0	46.290	1.16668E+05	117.39	-2.29632E+05	4.0659
3000.0	46.290	1.18983E+05	118.17	-2.35521E+05	4.1007

Ti<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.433	4.73715E+05	180.30	4.19958E+05	-73.573
300.00	24.399	4.73760E+05	180.45	4.19625E+05	-73.061
350.00	23.633	4.74960E+05	184.15	4.10507E+05	-61.263
400.00	23.092	4.76127E+05	187.27	4.01219E+05	-52.393
450.00	22.687	4.77271E+05	189.97	3.91787E+05	-45.476
500.00	22.373	4.78397E+05	192.34	3.82228E+05	-39.930
550.00	22.123	4.79510E+05	194.46	3.72557E+05	-35.382
600.00	21.921	4.80610E+05	196.38	3.62785E+05	-31.582
650.00	21.757	4.81702E+05	198.12	3.52922E+05	-28.360
700.00	21.625	4.82787E+05	199.73	3.42975E+05	-25.592
750.00	21.520	4.83865E+05	201.22	3.32951E+05	-23.188
800.00	21.439	4.84939E+05	202.60	3.22855E+05	-21.080
850.00	21.381	4.86009E+05	203.90	3.12692E+05	-19.215
900.00	21.343	4.87077E+05	205.12	3.02466E+05	-17.554
950.00	21.324	4.88144E+05	206.28	2.92181E+05	-16.065
1000.0	21.323	4.89210E+05	207.37	2.81839E+05	-14.721
1050.0	21.340	4.90277E+05	208.41	2.71445E+05	-13.503
1100.0	21.374	4.91344E+05	209.40	2.60999E+05	-12.393
1150.0	21.424	4.92414E+05	210.36	2.50505E+05	-11.378
1200.0	21.491	4.93487E+05	211.27	2.39964E+05	-10.445
1250.0	21.573	4.94564E+05	212.15	2.29378E+05	-9.5850
1300.0	21.672	4.95645E+05	213.00	2.18750E+05	-8.7892
1350.0	21.786	4.96731E+05	213.82	2.08079E+05	-8.0509
1400.0	21.915	4.97824E+05	214.61	1.97369E+05	-7.3637
1450.0	22.060	4.98923E+05	215.38	1.86619E+05	-6.7226
1500.0	22.220	5.00030E+05	216.13	1.75831E+05	-6.1228
1550.0	22.395	5.01145E+05	216.86	1.65006E+05	-5.5605
1600.0	22.585	5.02269E+05	217.58	1.54145E+05	-5.0322
1650.0	22.790	5.03404E+05	218.28	1.43248E+05	-4.5347
1700.0	23.010	5.04549E+05	218.96	1.32317E+05	-4.0655
1750.0	23.245	5.05705E+05	219.63	1.21352E+05	-3.6221
1800.0	23.496	5.06873E+05	220.29	1.10354E+05	-3.2023
1850.0	23.727	5.08054E+05	220.94	99324.	-2.8043
1900.0	23.971	5.09246E+05	221.57	88261.	-2.4264
1950.0	24.225	5.10451E+05	222.20	77167.	-2.0670
2000.0	24.488	5.11669E+05	222.81	66041.	-1.7248
2050.0	24.758	5.12900E+05	223.42	54885.	-1.3985
2100.0	25.036	5.14145E+05	224.02	43699.	-1.0869
2150.0	25.319	5.15404E+05	224.61	32483.	-0.78917
2200.0	25.608	5.16677E+05	225.20	21238.	-0.50424
2250.0	25.901	5.17965E+05	225.78	9963.6	-0.23130
2300.0	26.197	5.19267E+05	226.35	-1339.7	3.0E-02
2350.0	26.497	5.20584E+05	226.92	-12671.	0.28165
2400.0	26.799	5.21917E+05	227.48	-24031.	0.52301
2450.0	27.103	5.23264E+05	228.03	-35419.	0.75513
2500.0	27.409	5.24627E+05	228.58	-46835.	0.97853
2550.0	27.716	5.26005E+05	229.13	-58278.	1.1937
2600.0	28.024	5.27399E+05	229.67	-69748.	1.4012
2650.0	28.333	5.28808E+05	230.21	-81245.	1.6014
2700.0	28.642	5.30232E+05	230.74	-92768.	1.7947
2750.0	28.951	5.31672E+05	231.27	-1.04319E+05	1.9814
2800.0	29.260	5.33127E+05	231.79	-1.15895E+05	2.1620
2850.0	29.568	5.34598E+05	232.31	-1.27498E+05	2.3367
2900.0	29.876	5.36084E+05	232.83	-1.39127E+05	2.5059
2950.0	30.183	5.37585E+05	233.34	-1.50781E+05	2.6698
3000.0	30.489	5.39102E+05	233.85	-1.62461E+05	2.8286

TiCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.750	1.50795E+05	247.66	76955.	-13.482
300.00	35.778	1.50861E+05	247.88	76497.	-13.319
350.00	36.350	1.52666E+05	253.44	63961.	-9.5454
400.00	36.704	1.54493E+05	258.32	51164.	-6.6812
450.00	36.955	1.56334E+05	262.66	38138.	-4.4268
500.00	37.161	1.58187E+05	266.56	24906.	-2.6018
550.00	37.357	1.60050E+05	270.11	11487.	-1.0909
600.00	37.563	1.61923E+05	273.37	-2101.1	0.18291
650.00	37.793	1.63807E+05	276.39	-15846.	1.2734
700.00	38.053	1.65703E+05	279.20	-29737.	2.2189
750.00	38.350	1.67613E+05	281.83	-43763.	3.0479
800.00	38.689	1.69539E+05	284.32	-57918.	3.7815
850.00	39.071	1.71483E+05	286.68	-72193.	4.4363
900.00	39.499	1.73447E+05	288.92	-86583.	5.0250
950.00	39.975	1.75433E+05	291.07	-1.01084E+05	5.5578
1000.0	40.500	1.77445E+05	293.13	-1.15689E+05	6.0428
1050.0	41.080	1.79484E+05	295.12	-1.30396E+05	6.4867
1100.0	41.700	1.81554E+05	297.05	-1.45200E+05	6.8948
1150.0	42.345	1.83655E+05	298.92	-1.60100E+05	7.2718
1200.0	43.004	1.85788E+05	300.73	-1.75091E+05	7.6213
1250.0	43.669	1.87955E+05	302.50	-1.90172E+05	7.9467
1300.0	44.331	1.90155E+05	304.23	-2.05341E+05	8.2505
1350.0	44.986	1.92388E+05	305.91	-2.20594E+05	8.5351
1400.0	45.628	1.94654E+05	307.56	-2.35931E+05	8.8025
1450.0	46.254	1.96951E+05	309.17	-2.51350E+05	9.0544
1500.0	46.859	1.99279E+05	310.75	-2.66848E+05	9.2922
1550.0	47.441	2.01636E+05	312.30	-2.82424E+05	9.5174
1600.0	47.997	2.04022E+05	313.81	-2.98077E+05	9.7310
1650.0	48.526	2.06435E+05	315.30	-3.13805E+05	9.9340
1700.0	49.025	2.08874E+05	316.75	-3.29606E+05	10.127
1750.0	49.494	2.11337E+05	318.18	-3.45480E+05	10.312
1800.0	49.930	2.13823E+05	319.58	-3.61424E+05	10.488
1850.0	50.333	2.16330E+05	320.96	-3.77438E+05	10.657
1900.0	50.702	2.18856E+05	322.30	-3.93519E+05	10.818
1950.0	51.036	2.21400E+05	323.62	-4.09668E+05	10.973
2000.0	51.334	2.23959E+05	324.92	-4.25881E+05	11.123
2050.0	51.597	2.26532E+05	326.19	-4.42159E+05	11.266
2100.0	51.838	2.29118E+05	327.44	-4.58500E+05	11.404
2150.0	52.061	2.31716E+05	328.66	-4.74902E+05	11.538
2200.0	52.267	2.34324E+05	329.86	-4.91365E+05	11.666
2250.0	52.458	2.36942E+05	331.04	-5.07888E+05	11.791
2300.0	52.636	2.39570E+05	332.19	-5.24469E+05	11.911
2350.0	52.801	2.42206E+05	333.32	-5.41107E+05	12.027
2400.0	52.956	2.44850E+05	334.44	-5.57801E+05	12.140
2450.0	53.102	2.47501E+05	335.53	-5.74550E+05	12.249
2500.0	53.239	2.50160E+05	336.61	-5.91354E+05	12.355
2550.0	53.368	2.52825E+05	337.66	-6.08210E+05	12.458
2600.0	53.491	2.55496E+05	338.70	-6.25119E+05	12.558
2650.0	53.607	2.58174E+05	339.72	-6.42080E+05	12.656
2700.0	53.719	2.60857E+05	340.72	-6.59091E+05	12.751
2750.0	53.826	2.63546E+05	341.71	-6.76152E+05	12.843
2800.0	53.929	2.66240E+05	342.68	-6.93261E+05	12.933
2850.0	54.028	2.68939E+05	343.63	-7.10419E+05	13.020
2900.0	54.125	2.71642E+05	344.57	-7.27625E+05	13.106
2950.0	54.219	2.74351E+05	345.50	-7.44877E+05	13.189
3000.0	54.311	2.77064E+05	346.41	-7.62174E+05	13.270

TiCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	58.593	-2.25018E+05	283.54	-3.09556E+05	54.232
300.00	58.681	-2.24910E+05	283.90	-3.10081E+05	53.989
350.00	61.153	-2.21914E+05	293.13	-3.24511E+05	48.429
400.00	63.594	-2.18795E+05	301.46	-3.39379E+05	44.317
450.00	65.825	-2.15558E+05	309.08	-3.54646E+05	41.165
500.00	67.753	-2.12217E+05	316.12	-3.70278E+05	38.682
550.00	69.325	-2.08789E+05	322.66	-3.86249E+05	36.682
600.00	70.508	-2.05291E+05	328.74	-4.02536E+05	35.043
650.00	71.261	-2.01745E+05	334.42	-4.19117E+05	33.680
700.00	71.630	-1.98172E+05	339.71	-4.35972E+05	32.532
750.00	71.730	-1.94587E+05	344.66	-4.53082E+05	31.555
800.00	71.643	-1.91002E+05	349.29	-4.70432E+05	30.715
850.00	71.426	-1.87425E+05	353.63	-4.88006E+05	29.988
900.00	71.121	-1.83861E+05	357.70	-5.05791E+05	29.355
950.00	70.758	-1.80313E+05	361.54	-5.23772E+05	28.798
1000.0	70.362	-1.76785E+05	365.16	-5.41941E+05	28.307
1050.0	69.952	-1.73277E+05	368.58	-5.60285E+05	27.872
1100.0	69.540	-1.69790E+05	371.82	-5.78795E+05	27.484
1150.0	69.138	-1.66323E+05	374.91	-5.97464E+05	27.137
1200.0	68.756	-1.62876E+05	377.84	-6.16283E+05	26.825
1250.0	68.399	-1.59447E+05	380.64	-6.35246E+05	26.545
1300.0	68.075	-1.56036E+05	383.32	-6.54345E+05	26.291
1350.0	67.787	-1.52639E+05	385.88	-6.73576E+05	26.062
1400.0	67.543	-1.49256E+05	388.34	-6.92932E+05	25.853
1450.0	67.282	-1.45886E+05	390.71	-7.12408E+05	25.663
1500.0	67.052	-1.42527E+05	392.98	-7.32001E+05	25.490
1550.0	66.849	-1.39180E+05	395.18	-7.51705E+05	25.332
1600.0	66.669	-1.35842E+05	397.30	-7.71517E+05	25.187
1650.0	66.510	-1.32513E+05	399.35	-7.91433E+05	25.054
1700.0	66.370	-1.29191E+05	401.33	-8.11450E+05	24.932
1750.0	66.245	-1.25876E+05	403.25	-8.31565E+05	24.820
1800.0	66.135	-1.22566E+05	405.12	-8.51775E+05	24.717
1850.0	66.038	-1.19262E+05	406.93	-8.72076E+05	24.622
1900.0	65.952	-1.15962E+05	408.69	-8.92466E+05	24.535
1950.0	65.876	-1.12666E+05	410.40	-9.12944E+05	24.454
2000.0	65.810	-1.09374E+05	412.07	-9.33506E+05	24.380
2050.0	65.752	-1.06085E+05	413.69	-9.54150E+05	24.311
2100.0	65.701	-1.02799E+05	415.27	-9.74874E+05	24.248
2150.0	65.657	-99515.	416.82	-9.95676E+05	24.190
2200.0	65.619	-96233.	418.33	-1.01656E+06	24.135
2250.0	65.586	-92953.	419.80	-1.03751E+06	24.086
2300.0	65.559	-89675.	421.24	-1.05853E+06	24.039
2350.0	65.536	-86397.	422.65	-1.07963E+06	23.997
2400.0	65.517	-83121.	424.03	-1.10080E+06	23.958
2450.0	65.502	-79845.	425.38	-1.12204E+06	23.921
2500.0	65.490	-76571.	426.71	-1.14334E+06	23.888
2550.0	65.482	-73296.	428.00	-1.16471E+06	23.857
2600.0	65.476	-70022.	429.28	-1.18614E+06	23.829
2650.0	65.473	-66749.	430.52	-1.20763E+06	23.803
2700.0	65.473	-63475.	431.75	-1.22919E+06	23.779
2750.0	65.475	-60201.	432.95	-1.25081E+06	23.758
2800.0	65.478	-56927.	434.13	-1.27248E+06	23.738
2850.0	65.484	-53653.	435.29	-1.29422E+06	23.720
2900.0	65.491	-50379.	436.43	-1.31601E+06	23.703
2950.0	65.500	-47104.	437.54	-1.33786E+06	23.688
3000.0	65.510	-43829.	438.65	-1.35977E+06	23.675

TiBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.684	1.91700E+05	259.10	1.14450E+05	-20.051
300.00	37.732	1.91770E+05	259.33	1.13970E+05	-19.844
350.00	38.810	1.93685E+05	265.23	1.00853E+05	-15.051
400.00	39.592	1.95646E+05	270.47	87458.	-11.421
450.00	40.199	1.97641E+05	275.17	73815.	-8.5680
500.00	40.696	1.99664E+05	279.43	59948.	-6.2626
550.00	41.120	2.01710E+05	283.33	45878.	-4.3570
600.00	41.491	2.03775E+05	286.92	31621.	-2.7527
650.00	41.824	2.05858E+05	290.26	17190.	-1.3814
700.00	42.127	2.07957E+05	293.37	2598.4	-0.19389
750.00	42.408	2.10070E+05	296.29	-12144.	0.84574
800.00	42.671	2.12198E+05	299.03	-27027.	1.7647
850.00	42.917	2.14337E+05	301.63	-42044.	2.5837
900.00	43.150	2.16489E+05	304.09	-57188.	3.3190
950.00	43.372	2.18652E+05	306.42	-72451.	3.9835
1000.0	43.583	2.20826E+05	308.65	-87828.	4.5876
1050.0	43.784	2.23010E+05	310.79	-1.03315E+05	5.1395
1100.0	43.977	2.25204E+05	312.83	-1.18905E+05	5.6462
1150.0	44.162	2.27408E+05	314.79	-1.34596E+05	6.1134
1200.0	44.339	2.29620E+05	316.67	-1.50383E+05	6.5458
1250.0	44.509	2.31842E+05	318.48	-1.66262E+05	6.9475
1300.0	44.671	2.34071E+05	320.23	-1.82230E+05	7.3219
1350.0	44.827	2.36309E+05	321.92	-1.98284E+05	7.6719
1400.0	44.978	2.38554E+05	323.55	-2.14421E+05	7.9999
1450.0	45.087	2.40805E+05	325.13	-2.30638E+05	8.3083
1500.0	45.181	2.43062E+05	326.66	-2.46933E+05	8.5988
1550.0	45.263	2.45323E+05	328.15	-2.63304E+05	8.8731
1600.0	45.335	2.47588E+05	329.58	-2.79747E+05	9.1326
1650.0	45.398	2.49857E+05	330.98	-2.96262E+05	9.3786
1700.0	45.454	2.52128E+05	332.34	-3.12845E+05	9.6123
1750.0	45.504	2.54402E+05	333.66	-3.29495E+05	9.8346
1800.0	45.549	2.56678E+05	334.94	-3.46210E+05	10.046
1850.0	45.589	2.58957E+05	336.19	-3.62988E+05	10.249
1900.0	45.627	2.61237E+05	337.40	-3.79828E+05	10.442
1950.0	45.662	2.63519E+05	338.59	-3.96728E+05	10.627
2000.0	45.696	2.65803E+05	339.74	-4.13686E+05	10.804
2050.0	45.727	2.68089E+05	340.87	-4.30702E+05	10.974
2100.0	45.758	2.70376E+05	341.98	-4.47773E+05	11.137
2150.0	45.789	2.72665E+05	343.05	-4.64899E+05	11.295
2200.0	45.819	2.74955E+05	344.11	-4.82078E+05	11.446
2250.0	45.850	2.77247E+05	345.14	-4.99309E+05	11.591
2300.0	45.881	2.79540E+05	346.14	-5.16591E+05	11.732
2350.0	45.913	2.81835E+05	347.13	-5.33923E+05	11.867
2400.0	45.946	2.84131E+05	348.10	-5.51304E+05	11.999
2450.0	45.980	2.86429E+05	349.05	-5.68732E+05	12.125
2500.0	46.016	2.88729E+05	349.97	-5.86208E+05	12.248
2550.0	46.053	2.91031E+05	350.89	-6.03730E+05	12.367
2600.0	46.092	2.93335E+05	351.78	-6.21296E+05	12.482
2650.0	46.133	2.95640E+05	352.66	-6.38907E+05	12.593
2700.0	46.176	2.97948E+05	353.52	-6.56562E+05	12.702
2750.0	46.221	3.00258E+05	354.37	-6.74259E+05	12.807
2800.0	46.269	3.02570E+05	355.20	-6.91999E+05	12.909
2850.0	46.318	3.04885E+05	356.02	-7.09780E+05	13.008
2900.0	46.371	3.07202E+05	356.83	-7.27601E+05	13.105
2950.0	46.425	3.09522E+05	357.62	-7.45462E+05	13.199
3000.0	46.483	3.11845E+05	358.40	-7.63363E+05	13.291

TiBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	60.382	-1.07709E+05	305.70	-1.98852E+05	34.837
300.00	60.453	-1.07597E+05	306.07	-1.99418E+05	34.721
350.00	62.548	-1.04523E+05	315.54	-2.14963E+05	32.081
400.00	64.721	-1.01341E+05	324.04	-2.30956E+05	30.159
450.00	66.751	-98054.	331.78	-2.47354E+05	28.711
500.00	68.524	-94670.	338.91	-2.64124E+05	27.592
550.00	69.973	-91207.	345.51	-2.81236E+05	26.709
600.00	71.059	-87679.	351.65	-2.98667E+05	26.001
650.00	71.735	-84108.	357.36	-3.16394E+05	25.425
700.00	72.042	-80512.	362.69	-3.34397E+05	24.952
750.00	72.093	-76908.	367.67	-3.52657E+05	24.561
800.00	71.964	-73306.	372.32	-3.71158E+05	24.234
850.00	71.711	-69713.	376.67	-3.89884E+05	23.959
900.00	71.376	-66136.	380.76	-4.08821E+05	23.727
950.00	70.989	-62576.	384.61	-4.27956E+05	23.530
1000.0	70.571	-59037.	388.24	-4.47278E+05	23.363
1050.0	70.141	-55520.	391.67	-4.66777E+05	23.220
1100.0	69.713	-52023.	394.93	-4.86443E+05	23.099
1150.0	69.297	-48548.	398.02	-5.06267E+05	22.995
1200.0	68.902	-45093.	400.96	-5.26242E+05	22.906
1250.0	68.534	-41657.	403.76	-5.46361E+05	22.831
1300.0	68.200	-38239.	406.44	-5.66616E+05	22.766
1350.0	67.903	-34837.	409.01	-5.87003E+05	22.712
1400.0	67.651	-31448.	411.48	-6.07516E+05	22.666
1450.0	67.383	-28073.	413.85	-6.28149E+05	22.628
1500.0	67.146	-24709.	416.13	-6.48899E+05	22.596
1550.0	66.937	-21357.	418.32	-6.69760E+05	22.570
1600.0	66.752	-18015.	420.45	-6.90730E+05	22.549
1650.0	66.588	-14682.	422.50	-7.11804E+05	22.533
1700.0	66.443	-11356.	424.48	-7.32979E+05	22.521
1750.0	66.315	-8037.4	426.41	-7.54251E+05	22.513
1800.0	66.201	-4724.5	428.27	-7.75618E+05	22.507
1850.0	66.100	-1417.1	430.09	-7.97078E+05	22.505
1900.0	66.011	1885.7	431.85	-8.18626E+05	22.505
1950.0	65.932	5184.2	433.56	-8.40262E+05	22.508
2000.0	65.863	8479.1	435.23	-8.61982E+05	22.512
2050.0	65.802	11771.	436.86	-8.83784E+05	22.519
2100.0	65.749	15059.	438.44	-9.05667E+05	22.527
2150.0	65.703	18346.	439.99	-9.27628E+05	22.536
2200.0	65.663	21630.	441.50	-9.49665E+05	22.547
2250.0	65.628	24912.	442.97	-9.71777E+05	22.560
2300.0	65.599	28193.	444.41	-9.93961E+05	22.573
2350.0	65.574	31472.	445.83	-1.01622E+06	22.587
2400.0	65.554	34750.	447.21	-1.03854E+06	22.603
2450.0	65.538	38028.	448.56	-1.06094E+06	22.619
2500.0	65.525	41304.	449.88	-1.08340E+06	22.636
2550.0	65.515	44580.	451.18	-1.10593E+06	22.653
2600.0	65.508	47856.	452.45	-1.12852E+06	22.672
2650.0	65.504	51131.	453.70	-1.15117E+06	22.690
2700.0	65.502	54406.	454.92	-1.17389E+06	22.710
2750.0	65.503	57681.	456.12	-1.19666E+06	22.729
2800.0	65.505	60956.	457.31	-1.21950E+06	22.749
2850.0	65.510	64232.	458.46	-1.24239E+06	22.770
2900.0	65.516	67507.	459.60	-1.26534E+06	22.791
2950.0	65.524	70783.	460.72	-1.28835E+06	22.812
3000.0	65.534	74060.	461.83	-1.31142E+06	22.833

TiBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.349	-3.62971E+05	367.03	-4.72400E+05	82.760
300.00	78.433	-3.62826E+05	367.51	-4.73080E+05	82.368
350.00	80.491	-3.58851E+05	379.76	-4.91768E+05	73.390
400.00	82.212	-3.54782E+05	390.63	-5.11033E+05	66.732
450.00	83.673	-3.50634E+05	400.40	-5.30812E+05	61.614
500.00	84.916	-3.46419E+05	409.28	-5.51058E+05	57.567
550.00	85.964	-3.42146E+05	417.42	-5.71728E+05	54.297
600.00	86.831	-3.37825E+05	424.94	-5.92789E+05	51.606
650.00	87.525	-3.33466E+05	431.92	-6.14213E+05	49.357
700.00	88.053	-3.29076E+05	438.43	-6.35973E+05	47.456
750.00	88.419	-3.24663E+05	444.51	-6.58048E+05	45.829
800.00	88.624	-3.20236E+05	450.23	-6.80418E+05	44.426
850.00	88.606	-3.15805E+05	455.60	-7.03065E+05	43.204
900.00	88.547	-3.11376E+05	460.66	-7.25973E+05	42.133
950.00	88.456	-3.06951E+05	465.45	-7.49127E+05	41.189
1000.0	88.341	-3.02531E+05	469.98	-7.72514E+05	40.351
1050.0	88.209	-2.98117E+05	474.29	-7.96122E+05	39.604
1100.0	88.065	-2.93711E+05	478.39	-8.19939E+05	38.935
1150.0	87.911	-2.89311E+05	482.30	-8.43957E+05	38.333
1200.0	87.750	-2.84920E+05	486.04	-8.68167E+05	37.789
1250.0	87.587	-2.80536E+05	489.62	-8.92559E+05	37.297
1300.0	87.421	-2.76161E+05	493.05	-9.17126E+05	36.850
1350.0	87.255	-2.71794E+05	496.35	-9.41861E+05	36.442
1400.0	87.090	-2.67435E+05	499.52	-9.66758E+05	36.069
1450.0	86.927	-2.63085E+05	502.57	-9.91811E+05	35.728
1500.0	86.768	-2.58743E+05	505.51	-1.01701E+06	35.415
1550.0	86.612	-2.54408E+05	508.36	-1.04236E+06	35.126
1600.0	86.460	-2.50081E+05	511.10	-1.06785E+06	34.861
1650.0	86.314	-2.45762E+05	513.76	-1.09347E+06	34.615
1700.0	86.172	-2.41450E+05	516.34	-1.11922E+06	34.389
1750.0	86.037	-2.37145E+05	518.83	-1.14510E+06	34.179
1800.0	85.908	-2.32846E+05	521.25	-1.17110E+06	33.984
1850.0	85.786	-2.28554E+05	523.61	-1.19723E+06	33.803
1900.0	85.670	-2.24267E+05	525.89	-1.22346E+06	33.635
1950.0	85.561	-2.19987E+05	528.12	-1.24981E+06	33.478
2000.0	85.460	-2.15711E+05	530.28	-1.27627E+06	33.332
2050.0	85.365	-2.11441E+05	532.39	-1.30284E+06	33.196
2100.0	85.279	-2.07175E+05	534.45	-1.32951E+06	33.069
2150.0	85.200	-2.02913E+05	536.45	-1.35629E+06	32.950
2200.0	85.129	-1.98654E+05	538.41	-1.38316E+06	32.840
2250.0	85.065	-1.94400E+05	540.32	-1.41013E+06	32.736
2300.0	85.010	-1.90148E+05	542.19	-1.43719E+06	32.639
2350.0	84.963	-1.85898E+05	544.02	-1.46434E+06	32.548
2400.0	84.924	-1.81651E+05	545.81	-1.49159E+06	32.463
2450.0	84.893	-1.77406E+05	547.56	-1.51892E+06	32.383
2500.0	84.870	-1.73162E+05	549.27	-1.54635E+06	32.308
2550.0	84.856	-1.68919E+05	550.95	-1.57385E+06	32.238
2600.0	84.850	-1.64676E+05	552.60	-1.60144E+06	32.173
2650.0	84.853	-1.60434E+05	554.22	-1.62911E+06	32.111
2700.0	84.864	-1.56191E+05	555.80	-1.65686E+06	32.053
2750.0	84.884	-1.51947E+05	557.36	-1.68469E+06	31.999
2800.0	84.910	-1.47702E+05	558.89	-1.71260E+06	31.948
2850.0	84.911	-1.43457E+05	560.39	-1.74058E+06	31.900
2900.0	84.916	-1.39211E+05	561.87	-1.76864E+06	31.856
2950.0	84.922	-1.34965E+05	563.32	-1.79677E+06	31.814
3000.0	84.931	-1.30719E+05	564.75	-1.82497E+06	31.775

TiBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	100.38	-5.49697E+05	400.41	-6.69078E+05	117.22
300.00	100.47	-5.49511E+05	401.03	-6.69820E+05	116.62
350.00	102.44	-5.44435E+05	416.68	-6.90271E+05	103.01
400.00	103.72	-5.39278E+05	430.44	-7.11456E+05	92.904
450.00	104.60	-5.34069E+05	442.71	-7.33291E+05	85.116
500.00	105.24	-5.28822E+05	453.77	-7.55707E+05	78.946
550.00	105.70	-5.23548E+05	463.82	-7.78651E+05	73.948
600.00	106.06	-5.18254E+05	473.04	-8.02076E+05	69.825
650.00	106.34	-5.12943E+05	481.54	-8.25943E+05	66.372
700.00	106.56	-5.07620E+05	489.43	-8.50219E+05	63.443
750.00	106.74	-5.02288E+05	496.79	-8.74877E+05	60.930
800.00	106.89	-4.96947E+05	503.68	-8.99890E+05	58.755
850.00	107.02	-4.91599E+05	510.16	-9.25238E+05	56.857
900.00	107.12	-4.86245E+05	516.28	-9.50900E+05	55.187
950.00	107.21	-4.80887E+05	522.08	-9.76861E+05	53.710
1000.0	107.29	-4.75525E+05	527.58	-1.00310E+06	52.395
1050.0	107.35	-4.70159E+05	532.81	-1.02961E+06	51.219
1100.0	107.41	-4.64789E+05	537.81	-1.05638E+06	50.162
1150.0	107.46	-4.59418E+05	542.59	-1.08339E+06	49.208
1200.0	107.51	-4.54043E+05	547.16	-1.11064E+06	48.343
1250.0	107.55	-4.48667E+05	551.55	-1.13810E+06	47.558
1300.0	107.59	-4.43288E+05	555.77	-1.16579E+06	46.841
1350.0	107.62	-4.37908E+05	559.83	-1.19368E+06	46.185
1400.0	107.65	-4.32527E+05	563.74	-1.22177E+06	45.584
1450.0	107.67	-4.27144E+05	567.52	-1.25005E+06	45.031
1500.0	107.70	-4.21759E+05	571.17	-1.27852E+06	44.521
1550.0	107.72	-4.16374E+05	574.70	-1.30717E+06	44.050
1600.0	107.74	-4.10987E+05	578.13	-1.33599E+06	43.614
1650.0	107.76	-4.05599E+05	581.44	-1.36498E+06	43.210
1700.0	107.78	-4.00211E+05	584.66	-1.39413E+06	42.835
1750.0	107.80	-3.94821E+05	587.78	-1.42344E+06	42.486
1800.0	107.81	-3.89431E+05	590.82	-1.45291E+06	42.161
1850.0	107.83	-3.84040E+05	593.77	-1.48252E+06	41.858
1900.0	107.84	-3.78649E+05	596.65	-1.51228E+06	41.574
1950.0	107.85	-3.73256E+05	599.45	-1.54219E+06	41.309
2000.0	107.86	-3.67863E+05	602.18	-1.57223E+06	41.061
2050.0	107.88	-3.62470E+05	604.85	-1.60240E+06	40.829
2100.0	107.89	-3.57076E+05	607.44	-1.63271E+06	40.610
2150.0	107.90	-3.51681E+05	609.98	-1.66315E+06	40.405
2200.0	107.91	-3.46286E+05	612.46	-1.69371E+06	40.213
2250.0	107.91	-3.40891E+05	614.89	-1.72439E+06	40.031
2300.0	107.92	-3.35495E+05	617.26	-1.75520E+06	39.861
2350.0	107.93	-3.30098E+05	619.58	-1.78612E+06	39.700
2400.0	107.94	-3.24702E+05	621.85	-1.81715E+06	39.548
2450.0	107.95	-3.19304E+05	624.08	-1.84830E+06	39.405
2500.0	107.95	-3.13907E+05	626.26	-1.87956E+06	39.270
2550.0	107.96	-3.08509E+05	628.40	-1.91093E+06	39.143
2600.0	107.97	-3.03111E+05	630.50	-1.94240E+06	39.022
2650.0	107.97	-2.97713E+05	632.55	-1.97398E+06	38.908
2700.0	107.98	-2.92314E+05	634.57	-2.00565E+06	38.801
2750.0	107.98	-2.86915E+05	636.55	-2.03743E+06	38.699
2800.0	107.99	-2.81516E+05	638.50	-2.06931E+06	38.602
2850.0	107.99	-2.76116E+05	640.41	-2.10128E+06	38.511
2900.0	108.00	-2.70716E+05	642.29	-2.13335E+06	38.425
2950.0	108.00	-2.65316E+05	644.13	-2.16551E+06	38.343
3000.0	108.01	-2.59916E+05	645.95	-2.19776E+06	38.265

TiB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	29.673	-1.60247E+05	34.727	-1.70601E+05	29.888
300.00	29.949	-1.60192E+05	34.911	-1.70665E+05	29.715
350.00	36.062	-1.58532E+05	40.017	-1.72538E+05	25.749
400.00	40.331	-1.56616E+05	45.127	-1.74667E+05	22.809
450.00	43.431	-1.54518E+05	50.066	-1.77048E+05	20.551
500.00	45.716	-1.52287E+05	54.766	-1.79670E+05	18.769
550.00	47.388	-1.49957E+05	59.206	-1.82520E+05	17.334
600.00	48.568	-1.47556E+05	63.383	-1.85586E+05	16.156
650.00	49.466	-1.45104E+05	67.308	-1.88854E+05	15.176
700.00	50.109	-1.42614E+05	70.999	-1.92313E+05	14.350
750.00	50.580	-1.40096E+05	74.473	-1.95951E+05	13.647
800.00	50.938	-1.37557E+05	77.749	-1.99757E+05	13.042
850.00	51.224	-1.35003E+05	80.846	-2.03722E+05	12.519
900.00	51.467	-1.32436E+05	83.781	-2.07839E+05	12.062
950.00	51.692	-1.29857E+05	86.570	-2.12098E+05	11.662
1000.0	51.915	-1.27267E+05	89.227	-2.16494E+05	11.308
1050.0	52.045	-1.24668E+05	91.763	-2.21019E+05	10.995
1100.0	52.155	-1.22062E+05	94.187	-2.25668E+05	10.716
1150.0	52.250	-1.19452E+05	96.507	-2.30436E+05	10.466
1200.0	52.333	-1.16838E+05	98.733	-2.35317E+05	10.243
1250.0	52.408	-1.14219E+05	100.87	-2.40308E+05	10.042
1300.0	52.477	-1.11597E+05	102.93	-2.45403E+05	9.8602
1350.0	52.541	-1.08971E+05	104.91	-2.50599E+05	9.6960
1400.0	52.603	-1.06343E+05	106.82	-2.55893E+05	9.5472
1450.0	52.664	-1.03711E+05	108.67	-2.61280E+05	9.4121
1500.0	52.724	-1.01077E+05	110.45	-2.66759E+05	9.2891
1550.0	52.785	-98439.	112.18	-2.72325E+05	9.1770
1600.0	52.848	-95798.	113.86	-2.77976E+05	9.0748
1650.0	52.914	-93154.	115.49	-2.83710E+05	8.9813
1700.0	52.982	-90507.	117.07	-2.89524E+05	8.8958
1750.0	53.053	-87856.	118.61	-2.95416E+05	8.8175
1800.0	53.128	-85201.	120.10	-3.01384E+05	8.7457
1850.0	53.195	-82543.	121.56	-3.07426E+05	8.6799
1900.0	53.262	-79882.	122.98	-3.13539E+05	8.6196
1950.0	53.329	-77217.	124.36	-3.19723E+05	8.5642
2000.0	53.396	-74549.	125.71	-3.25975E+05	8.5134
2050.0	53.463	-71877.	127.03	-3.32294E+05	8.4667
2100.0	53.530	-69202.	128.32	-3.38678E+05	8.4239
2150.0	53.597	-66524.	129.58	-3.45125E+05	8.3847
2200.0	53.664	-63843.	130.81	-3.51635E+05	8.3487
2250.0	53.731	-61158.	132.02	-3.58206E+05	8.3157
2300.0	53.798	-58470.	133.20	-3.64837E+05	8.2855
2350.0	53.865	-55778.	134.36	-3.71526E+05	8.2579
2400.0	53.932	-53083.	135.50	-3.78273E+05	8.2327
2450.0	53.999	-50385.	136.61	-3.85076E+05	8.2097
2500.0	54.066	-47683.	137.70	-3.91933E+05	8.1888
2550.0	54.133	-44978.	138.77	-3.98845E+05	8.1698
2600.0	54.200	-42270.	139.82	-4.05810E+05	8.1526
2650.0	54.267	-39558.	140.86	-4.12827E+05	8.1371
2700.0	54.333	-36843.	141.87	-4.19896E+05	8.1232
2750.0	54.400	-34125.	142.87	-4.27014E+05	8.1107
2800.0	54.467	-31403.	143.85	-4.34182E+05	8.0996
2850.0	54.534	-28678.	144.81	-4.41399E+05	8.0897
2900.0	54.601	-25950.	145.76	-4.48663E+05	8.0811
2950.0	54.668	-23218.	146.70	-4.55975E+05	8.0736
3000.0	54.735	-20483.	147.62	-4.63333E+05	8.0671

TiB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	44.279	-2.79491E+05	28.485	-2.87984E+05	50.452
300.00	44.524	-2.79409E+05	28.760	-2.88037E+05	50.150
350.00	50.313	-2.77032E+05	36.077	-2.89659E+05	43.228
400.00	54.890	-2.74398E+05	43.105	-2.91640E+05	38.083
450.00	58.612	-2.71557E+05	49.792	-2.93964E+05	34.122
500.00	61.668	-2.68548E+05	56.131	-2.96613E+05	30.986
550.00	64.165	-2.65400E+05	62.130	-2.99571E+05	28.450
600.00	66.166	-2.62139E+05	67.802	-3.02821E+05	26.362
650.00	67.945	-2.58785E+05	73.171	-3.06346E+05	24.618
700.00	69.474	-2.55349E+05	78.263	-3.10133E+05	23.142
750.00	70.841	-2.51841E+05	83.104	-3.14168E+05	21.880
800.00	72.108	-2.48267E+05	87.716	-3.18440E+05	20.791
850.00	73.318	-2.44631E+05	92.124	-3.22937E+05	19.845
900.00	74.504	-2.40935E+05	96.349	-3.27649E+05	19.016
950.00	75.688	-2.37180E+05	100.41	-3.32569E+05	18.285
1000.0	76.889	-2.33366E+05	104.32	-3.37688E+05	17.639
1050.0	78.028	-2.29493E+05	108.10	-3.42999E+05	17.063
1100.0	79.140	-2.25564E+05	111.76	-3.48496E+05	16.548
1150.0	80.225	-2.21580E+05	115.30	-3.54172E+05	16.087
1200.0	81.284	-2.17542E+05	118.73	-3.60024E+05	15.671
1250.0	82.315	-2.13452E+05	122.07	-3.66044E+05	15.296
1300.0	83.320	-2.09311E+05	125.32	-3.72229E+05	14.956
1350.0	84.297	-2.05120E+05	128.49	-3.78575E+05	14.648
1400.0	85.248	-2.00881E+05	131.57	-3.85077E+05	14.367
1450.0	86.172	-1.96596E+05	134.58	-3.91731E+05	14.111
1500.0	87.068	-1.92265E+05	137.51	-3.98533E+05	13.878
1550.0	87.937	-1.87889E+05	140.38	-4.05481E+05	13.664
1600.0	88.780	-1.83471E+05	143.19	-4.12570E+05	13.469
1650.0	89.595	-1.79012E+05	145.93	-4.19798E+05	13.289
1700.0	90.382	-1.74512E+05	148.62	-4.27162E+05	13.125
1750.0	91.143	-1.69974E+05	151.25	-4.34659E+05	12.974
1800.0	91.877	-1.65398E+05	153.83	-4.42286E+05	12.834
1850.0	92.583	-1.60787E+05	156.35	-4.50041E+05	12.707
1900.0	93.262	-1.56141E+05	158.83	-4.57921E+05	12.589
1950.0	93.914	-1.51461E+05	161.26	-4.65923E+05	12.480
2000.0	94.538	-1.46750E+05	163.65	-4.74046E+05	12.381
2050.0	95.136	-1.42008E+05	165.99	-4.82287E+05	12.289
2100.0	95.706	-1.37237E+05	168.29	-4.90645E+05	12.204
2150.0	96.249	-1.32438E+05	170.55	-4.99116E+05	12.126
2200.0	96.764	-1.27612E+05	172.77	-5.07699E+05	12.054
2250.0	97.252	-1.22762E+05	174.95	-5.16392E+05	11.988
2300.0	97.714	-1.17887E+05	177.09	-5.25193E+05	11.927
2350.0	98.147	-1.12991E+05	179.20	-5.34100E+05	11.871
2400.0	98.554	-1.08073E+05	181.27	-5.43112E+05	11.820
2450.0	98.972	-1.03135E+05	183.30	-5.52226E+05	11.773
2500.0	99.390	-98176.	185.31	-5.61441E+05	11.730
2550.0	99.809	-93196.	187.28	-5.70756E+05	11.691
2600.0	100.23	-88195.	189.22	-5.80169E+05	11.655
2650.0	100.65	-83173.	191.13	-5.89678E+05	11.623
2700.0	101.06	-78130.	193.02	-5.99282E+05	11.594
2750.0	101.48	-73067.	194.88	-6.08979E+05	11.567
2800.0	101.90	-67982.	196.71	-6.18769E+05	11.543
2850.0	102.32	-62877.	198.52	-6.28650E+05	11.522
2900.0	102.74	-57750.	200.30	-6.38620E+05	11.503
2950.0	103.16	-52603.	202.06	-6.48679E+05	11.486
3000.0	103.57	-47435.	203.80	-6.58826E+05	11.471

T1

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.318	0.00000E+00	64.300	-19171.	3.3586
300.00	26.342	48.711	64.463	-19290.	3.3586
350.00	26.945	1381.3	68.570	-22618.	3.3755
400.00	27.464	2741.8	72.203	-26139.	3.4134
450.00	27.936	4126.9	75.465	-29832.	3.4628
500.00	28.380	5534.9	78.432	-33681.	3.5185
507.00	28.441	5733.8	78.827	-34231.	3.5267
507.00	30.540	6093.6	79.536	-34231.	3.5267
550.00	31.913	7435.6	82.076	-37706.	3.5810
577.00	32.879	8310.1	83.628	-39943.	3.6159
577.00	30.489	12452.	90.807	-39943.	3.6159
600.00	30.251	13151.	91.994	-42046.	3.6603
650.00	29.831	14652.	94.398	-46706.	3.7533
700.00	29.515	16136.	96.597	-51482.	3.8415
750.00	29.277	17605.	98.625	-56363.	3.9254
800.00	29.097	19064.	100.51	-61342.	4.0051
850.00	28.962	20516.	102.27	-66412.	4.0811
900.00	28.862	21961.	103.92	-71567.	4.1535
950.00	28.791	23402.	105.48	-76802.	4.2228
1000.0	28.742	24840.	106.95	-82114.	4.2891
1050.0	28.712	26277.	108.36	-87497.	4.3526
1100.0	28.697	27712.	109.69	-92948.	4.4136
1150.0	28.694	29147.	110.97	-98465.	4.4723
1200.0	28.702	30581.	112.19	-1.04044E+05	4.5288
1250.0	28.719	32017.	113.36	-1.09683E+05	4.5833
1300.0	28.744	33454.	114.49	-1.15379E+05	4.6359
1350.0	28.775	34891.	115.57	-1.21131E+05	4.6867
1400.0	28.811	36331.	116.62	-1.26936E+05	4.7359
1450.0	28.852	37773.	117.63	-1.32792E+05	4.7836
1500.0	28.898	39216.	118.61	-1.38698E+05	4.8298
1550.0	28.947	40663.	119.56	-1.44652E+05	4.8746
1600.0	28.999	42111.	120.48	-1.50653E+05	4.9182
1650.0	29.054	43562.	121.37	-1.56700E+05	4.9606
1700.0	29.112	45017.	122.24	-1.62790E+05	5.0018
1750.0	29.172	46474.	123.08	-1.68923E+05	5.0420
1800.0	29.233	47934.	123.91	-1.75098E+05	5.0811
1850.0	29.297	49397.	124.71	-1.81314E+05	5.1192
1900.0	29.362	50864.	125.49	-1.87569E+05	5.1565
1950.0	29.428	52333.	126.25	-1.93862E+05	5.1929
2000.0	29.496	53806.	127.00	-2.00194E+05	5.2284

Tl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.775	1.81000E+05	180.97	1.27045E+05	-22.257
300.00	20.777	1.81038E+05	181.09	1.26710E+05	-22.062
350.00	20.816	1.82078E+05	184.30	1.17574E+05	-17.546
400.00	20.826	1.83120E+05	187.08	1.08287E+05	-14.141
450.00	20.821	1.84161E+05	189.53	98871.	-11.476
500.00	20.809	1.85202E+05	191.73	89338.	-9.3329
550.00	20.795	1.86242E+05	193.71	79702.	-7.5693
600.00	20.782	1.87281E+05	195.52	69971.	-6.0913
650.00	20.770	1.88320E+05	197.18	60152.	-4.8338
700.00	20.762	1.89358E+05	198.72	50255.	-3.7499
750.00	20.757	1.90396E+05	200.15	40282.	-2.8054
800.00	20.756	1.91434E+05	201.49	30241.	-1.9745
850.00	20.761	1.92472E+05	202.75	20135.	-1.2373
900.00	20.770	1.93510E+05	203.94	9967.1	-0.57846
950.00	20.784	1.94549E+05	205.06	-258.06	1.4E-02
1000.0	20.804	1.95589E+05	206.13	-10538.	0.55043
1050.0	20.829	1.96629E+05	207.14	-20870.	1.0382
1100.0	20.860	1.97672E+05	208.11	-31251.	1.4840
1150.0	20.897	1.98716E+05	209.04	-41680.	1.8931
1200.0	20.939	1.99761E+05	209.93	-52155.	2.2702
1250.0	20.986	2.00810E+05	210.79	-62673.	2.6189
1300.0	21.040	2.01860E+05	211.61	-73233.	2.9425
1350.0	21.099	2.02914E+05	212.41	-83833.	3.2436
1400.0	21.164	2.03970E+05	213.17	-94473.	3.5247
1450.0	21.235	2.05030E+05	213.92	-1.05150E+05	3.7878
1500.0	21.312	2.06094E+05	214.64	-1.15864E+05	4.0346
1550.0	21.400	2.07162E+05	215.34	-1.26614E+05	4.2667
1600.0	21.506	2.08234E+05	216.02	-1.37398E+05	4.4855
1650.0	21.626	2.09312E+05	216.68	-1.48215E+05	4.6920
1700.0	21.757	2.10397E+05	217.33	-1.59066E+05	4.8874
1750.0	21.899	2.11488E+05	217.96	-1.69948E+05	5.0726
1800.0	22.049	2.12587E+05	218.58	-1.80862E+05	5.2483
1850.0	22.205	2.13693E+05	219.19	-1.91806E+05	5.4155
1900.0	22.366	2.14807E+05	219.78	-2.02781E+05	5.5747
1950.0	22.532	2.15930E+05	220.37	-2.13785E+05	5.7265
2000.0	22.700	2.17061E+05	220.94	-2.24817E+05	5.8715
2050.0	22.870	2.18200E+05	221.50	-2.35878E+05	6.0101
2100.0	23.042	2.19348E+05	222.05	-2.46967E+05	6.1428
2150.0	23.214	2.20504E+05	222.60	-2.58084E+05	6.2700
2200.0	23.386	2.21669E+05	223.13	-2.69227E+05	6.3921
2250.0	23.557	2.22843E+05	223.66	-2.80397E+05	6.5094
2300.0	23.727	2.24025E+05	224.18	-2.91593E+05	6.6221
2350.0	23.896	2.25215E+05	224.69	-3.02815E+05	6.7307
2400.0	24.062	2.26414E+05	225.20	-3.14062E+05	6.8352
2450.0	24.226	2.27622E+05	225.70	-3.25335E+05	6.9360
2500.0	24.388	2.28837E+05	226.19	-3.36632E+05	7.0334
2550.0	24.546	2.30060E+05	226.67	-3.47953E+05	7.1274
2600.0	24.701	2.31291E+05	227.15	-3.59299E+05	7.2182
2650.0	24.853	2.32530E+05	227.62	-3.70668E+05	7.3061
2700.0	25.001	2.33777E+05	228.09	-3.82061E+05	7.3912
2750.0	25.145	2.35030E+05	228.55	-3.93477E+05	7.4737
2800.0	25.285	2.36291E+05	229.00	-4.04916E+05	7.5536
2850.0	25.420	2.37559E+05	229.45	-4.16377E+05	7.6311
2900.0	25.552	2.38833E+05	229.89	-4.27861E+05	7.7064
2950.0	25.678	2.40114E+05	230.33	-4.39366E+05	7.7795
3000.0	25.800	2.41401E+05	230.76	-4.50894E+05	7.8506

TlCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.378	-66918.	256.36	-1.43353E+05	25.114
300.00	36.395	-66851.	256.59	-1.43827E+05	25.042
350.00	36.757	-65021.	262.23	-1.56801E+05	23.401
400.00	36.997	-63177.	267.15	-1.70038E+05	22.204
450.00	37.167	-61323.	271.52	-1.83507E+05	21.300
500.00	37.294	-59461.	275.44	-1.97183E+05	20.599
550.00	37.393	-57594.	279.00	-2.11046E+05	20.043
600.00	37.474	-55722.	282.26	-2.25078E+05	19.594
650.00	37.542	-53847.	285.26	-2.39268E+05	19.227
700.00	37.601	-51968.	288.05	-2.53601E+05	18.923
750.00	37.654	-50087.	290.64	-2.68069E+05	18.670
800.00	37.703	-48203.	293.08	-2.82663E+05	18.456
850.00	37.748	-46316.	295.36	-2.97374E+05	18.274
900.00	37.791	-44428.	297.52	-3.12197E+05	18.119
950.00	37.833	-42537.	299.57	-3.27124E+05	17.986
1000.0	37.873	-40645.	301.51	-3.42152E+05	17.872
1050.0	37.913	-38750.	303.36	-3.57274E+05	17.773
1100.0	37.952	-36853.	305.12	-3.72486E+05	17.687
1150.0	37.992	-34955.	306.81	-3.87784E+05	17.613
1200.0	38.032	-33054.	308.43	-4.03166E+05	17.549
1250.0	38.071	-31151.	309.98	-4.18626E+05	17.493
1300.0	38.112	-29247.	311.47	-4.34163E+05	17.444
1350.0	38.153	-27340.	312.91	-4.49772E+05	17.402
1400.0	38.194	-25432.	314.30	-4.65453E+05	17.366
1450.0	38.237	-23521.	315.64	-4.81202E+05	17.334
1500.0	38.280	-21608.	316.94	-4.97016E+05	17.307
1550.0	38.323	-19693.	318.19	-5.12895E+05	17.284
1600.0	38.368	-17776.	319.41	-5.28835E+05	17.264
1650.0	38.414	-15856.	320.59	-5.44836E+05	17.248
1700.0	38.460	-13934.	321.74	-5.60894E+05	17.234
1750.0	38.508	-12010.	322.86	-5.77009E+05	17.222
1800.0	38.556	-10083.	323.94	-5.93179E+05	17.213
1850.0	38.605	-8154.4	325.00	-6.09403E+05	17.206
1900.0	38.656	-6222.9	326.03	-6.25679E+05	17.201
1950.0	38.707	-4288.8	327.03	-6.42005E+05	17.197
2000.0	38.760	-2352.1	328.01	-6.58382E+05	17.195
2050.0	38.813	-412.81	328.97	-6.74806E+05	17.194
2100.0	38.868	1529.2	329.91	-6.91279E+05	17.194
2150.0	38.924	3474.0	330.82	-7.07797E+05	17.196
2200.0	38.981	5421.6	331.72	-7.24361E+05	17.198
2250.0	39.039	7372.1	332.60	-7.40969E+05	17.201
2300.0	39.098	9325.5	333.45	-7.57620E+05	17.206
2350.0	39.158	11282.	334.30	-7.74314E+05	17.211
2400.0	39.219	13241.	335.12	-7.91049E+05	17.216
2450.0	39.281	15204.	335.93	-8.07826E+05	17.223
2500.0	39.345	17169.	336.72	-8.24642E+05	17.230
2550.0	39.409	19138.	337.50	-8.41498E+05	17.237
2600.0	39.475	21110.	338.27	-8.58392E+05	17.245
2650.0	39.542	23086.	339.02	-8.75325E+05	17.253
2700.0	39.610	25065.	339.76	-8.92294E+05	17.262
2750.0	39.679	27047.	340.49	-9.09301E+05	17.271
2800.0	39.749	29032.	341.21	-9.26343E+05	17.281
2850.0	39.820	31022.	341.91	-9.43421E+05	17.291
2900.0	39.893	33015.	342.60	-9.60534E+05	17.301
2950.0	39.966	35011.	343.29	-9.77681E+05	17.311
3000.0	40.041	37011.	343.96	-9.94862E+05	17.322

TlBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	37.015	-34329.	267.53	-1.14093E+05	19.988
300.00	37.023	-34261.	267.76	-1.14588E+05	19.951
350.00	37.190	-32405.	273.48	-1.28123E+05	19.121
400.00	37.310	-30542.	278.45	-1.41924E+05	18.533
450.00	37.402	-28674.	282.85	-1.55959E+05	18.103
500.00	37.478	-26802.	286.80	-1.70202E+05	17.780
550.00	37.543	-24927.	290.37	-1.84632E+05	17.534
600.00	37.600	-23048.	293.64	-1.99234E+05	17.344
650.00	37.653	-21167.	296.65	-2.13992E+05	17.196
700.00	37.703	-19283.	299.45	-2.28896E+05	17.080
750.00	37.750	-17397.	302.05	-2.43934E+05	16.989
800.00	37.795	-15508.	304.49	-2.59098E+05	16.917
850.00	37.840	-13617.	306.78	-2.74380E+05	16.861
900.00	37.883	-11724.	308.94	-2.89774E+05	16.818
950.00	37.926	-9828.7	310.99	-3.05273E+05	16.785
1000.0	37.969	-7931.3	312.94	-3.20871E+05	16.760
1050.0	38.012	-6031.8	314.79	-3.36565E+05	16.743
1100.0	38.055	-4130.1	316.56	-3.52349E+05	16.731
1150.0	38.098	-2226.3	318.26	-3.68220E+05	16.725
1200.0	38.141	-320.36	319.88	-3.84174E+05	16.722
1250.0	38.184	1587.8	321.44	-4.00207E+05	16.723
1300.0	38.227	3498.0	322.93	-4.16316E+05	16.727
1350.0	38.271	5410.5	324.38	-4.32499E+05	16.734
1400.0	38.316	7325.2	325.77	-4.48753E+05	16.743
1450.0	38.360	9242.1	327.12	-4.65076E+05	16.753
1500.0	38.405	11161.	328.42	-4.81464E+05	16.766
1550.0	38.451	13083.	329.68	-4.97917E+05	16.779
1600.0	38.497	15006.	330.90	-5.14431E+05	16.794
1650.0	38.543	16932.	332.08	-5.31006E+05	16.810
1700.0	38.590	18861.	333.24	-5.47639E+05	16.826
1750.0	38.638	20791.	334.35	-5.64329E+05	16.844
1800.0	38.686	22724.	335.44	-5.81074E+05	16.862
1850.0	38.734	24660.	336.50	-5.97873E+05	16.880
1900.0	38.783	26598.	337.54	-6.14724E+05	16.900
1950.0	38.833	28538.	338.55	-6.31626E+05	16.919
2000.0	38.883	30481.	339.53	-6.48578E+05	16.939
2050.0	38.934	32427.	340.49	-6.65579E+05	16.959
2100.0	38.985	34375.	341.43	-6.82627E+05	16.979
2150.0	39.037	36325.	342.35	-6.99721E+05	16.999
2200.0	39.089	38278.	343.25	-7.16861E+05	17.020
2250.0	39.142	40234.	344.12	-7.34045E+05	17.041
2300.0	39.195	42192.	344.98	-7.51273E+05	17.062
2350.0	39.249	44154.	345.83	-7.68544E+05	17.082
2400.0	39.304	46117.	346.66	-7.85856E+05	17.103
2450.0	39.359	48084.	347.47	-8.03209E+05	17.124
2500.0	39.414	50053.	348.26	-8.20602E+05	17.145
2550.0	39.470	52025.	349.04	-8.38035E+05	17.166
2600.0	39.527	54000.	349.81	-8.55506E+05	17.187
2650.0	39.585	55978.	350.56	-8.73016E+05	17.208
2700.0	39.642	57959.	351.30	-8.90562E+05	17.229
2750.0	39.701	59942.	352.03	-9.08146E+05	17.249
2800.0	39.760	61929.	352.75	-9.25765E+05	17.270
2850.0	39.820	63918.	353.45	-9.43420E+05	17.291
2900.0	39.880	65911.	354.15	-9.61110E+05	17.311
2950.0	39.941	67906.	354.83	-9.78835E+05	17.331
3000.0	40.002	69905.	355.50	-9.96593E+05	17.352

Tm					
T	Cp	H-Hser	S	G-Hser	Beta
K	J/(mol.K)	J/mol	J/(mol.K)	J/mol	-G/RTln10
298.15	27.029	0.00000E+00	74.015	-22068.	3.8660
300.00	27.020	49.996	74.182	-22205.	3.8661
350.00	26.936	1397.8	78.338	-26020.	3.8832
400.00	27.048	2746.8	81.940	-30029.	3.9213
450.00	27.271	4104.5	85.138	-34208.	3.9706
500.00	27.561	5475.1	88.026	-38538.	4.0259
550.00	27.894	6861.3	90.668	-43006.	4.0843
600.00	28.254	8264.9	93.111	-47601.	4.1440
650.00	28.632	9687.0	95.387	-52314.	4.2039
700.00	29.021	11128.	97.523	-57138.	4.2636
750.00	29.417	12589.	99.539	-62065.	4.3225
800.00	29.818	14070.	101.45	-67090.	4.3804
850.00	30.220	15571.	103.27	-72208.	4.4373
900.00	30.624	17092.	105.01	-77416.	4.4930
950.00	31.026	18633.	106.68	-82708.	4.5475
1000.0	31.428	20195.	108.28	-88082.	4.6008
1050.0	31.827	21776.	109.82	-93535.	4.6530
1100.0	32.223	23377.	111.31	-99063.	4.7040
1150.0	32.617	24998.	112.75	-1.04665E+05	4.7539
1200.0	33.007	26639.	114.15	-1.10337E+05	4.8027
1250.0	33.394	28299.	115.50	-1.16079E+05	4.8505
1300.0	33.777	29978.	116.82	-1.21887E+05	4.8974
1350.0	34.156	31677.	118.10	-1.27760E+05	4.9432
1400.0	34.530	33394.	119.35	-1.33697E+05	4.9882
1450.0	34.901	35130.	120.57	-1.39695E+05	5.0322
1500.0	35.267	36884.	121.76	-1.45753E+05	5.0754
1550.0	35.628	38656.	122.92	-1.51870E+05	5.1179
1600.0	35.986	40447.	124.06	-1.58044E+05	5.1595
1650.0	36.338	42255.	125.17	-1.64275E+05	5.2004
1700.0	36.686	44080.	126.26	-1.70561E+05	5.2406
1750.0	37.030	45923.	127.33	-1.76901E+05	5.2801
1800.0	37.368	47783.	128.38	-1.83294E+05	5.3189
1818.0	37.489	48457.	128.75	-1.85608E+05	5.3327
1818.0	41.380	65298.	138.01	-1.85608E+05	5.3327
1850.0	41.380	66622.	138.73	-1.90036E+05	5.3655
1900.0	41.380	68691.	139.84	-1.97000E+05	5.4158
1950.0	41.380	70760.	140.91	-2.04019E+05	5.4649
2000.0	41.380	72829.	141.96	-2.11091E+05	5.5130

TmBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	79.840	-5.45594E+05	401.19	-6.65208E+05	116.54
300.00	79.879	-5.45446E+05	401.68	-6.65951E+05	115.95
350.00	80.721	-5.41429E+05	414.06	-6.86352E+05	102.43
400.00	81.269	-5.37379E+05	424.88	-7.07331E+05	92.366
450.00	81.645	-5.33305E+05	434.48	-7.28819E+05	84.597
500.00	81.916	-5.29216E+05	443.09	-7.50762E+05	78.430
550.00	82.117	-5.25115E+05	450.91	-7.73115E+05	73.423
600.00	82.272	-5.21005E+05	458.06	-7.95842E+05	69.282
650.00	82.392	-5.16888E+05	464.65	-8.18912E+05	65.807
700.00	82.489	-5.12766E+05	470.76	-8.42299E+05	62.852
750.00	82.568	-5.08640E+05	476.46	-8.65981E+05	60.311
800.00	82.634	-5.04509E+05	481.79	-8.89939E+05	58.106
850.00	82.688	-5.00376E+05	486.80	-9.14155E+05	56.176
900.00	82.735	-4.96241E+05	491.53	-9.38614E+05	54.474
950.00	82.775	-4.92103E+05	496.00	-9.63303E+05	52.965
1000.0	82.810	-4.87963E+05	500.25	-9.88210E+05	51.617
1050.0	82.841	-4.83822E+05	504.29	-1.01332E+06	50.409
1100.0	82.868	-4.79679E+05	508.14	-1.03864E+06	49.319
1150.0	82.892	-4.75535E+05	511.83	-1.06414E+06	48.333
1200.0	82.914	-4.71390E+05	515.35	-1.08982E+06	47.437
1250.0	82.933	-4.67244E+05	518.74	-1.11567E+06	46.620
1300.0	82.951	-4.63097E+05	521.99	-1.14169E+06	45.872
1350.0	82.968	-4.58949E+05	525.12	-1.16787E+06	45.186
1400.0	82.983	-4.54800E+05	528.14	-1.19420E+06	44.555
1450.0	82.997	-4.50651E+05	531.05	-1.22068E+06	43.972
1500.0	83.010	-4.46500E+05	533.87	-1.24730E+06	43.434
1550.0	83.022	-4.42350E+05	536.59	-1.27406E+06	42.935
1600.0	83.034	-4.38198E+05	539.23	-1.30096E+06	42.471
1650.0	83.044	-4.34046E+05	541.78	-1.32798E+06	42.039
1700.0	83.055	-4.29894E+05	544.26	-1.35514E+06	41.637
1750.0	83.064	-4.25741E+05	546.67	-1.38241E+06	41.262
1800.0	83.074	-4.21587E+05	549.01	-1.40980E+06	40.910
1850.0	83.083	-4.17433E+05	551.28	-1.43731E+06	40.581
1900.0	83.091	-4.13279E+05	553.50	-1.46493E+06	40.273
1950.0	83.099	-4.09124E+05	555.66	-1.49266E+06	39.983
2000.0	83.107	-4.04969E+05	557.76	-1.52049E+06	39.710

U

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	27.665	0.00000E+00	50.200	-14967.	2.6221
300.00	27.700	51.213	50.371	-15060.	2.6221
350.00	28.666	1460.2	54.713	-17689.	2.6399
400.00	29.684	2918.7	58.607	-20524.	2.6801
450.00	30.789	4430.1	62.166	-23545.	2.7329
500.00	31.997	5999.3	65.471	-26736.	2.7931
550.00	33.320	7631.7	68.582	-30088.	2.8575
600.00	34.762	9333.2	71.542	-33592.	2.9244
650.00	36.329	11110.	74.386	-37241.	2.9926
700.00	38.021	12968.	77.139	-41029.	3.0616
750.00	39.842	14914.	79.824	-44954.	3.1308
800.00	41.791	16955.	82.457	-49011.	3.2000
850.00	43.871	19096.	85.052	-53199.	3.2691
900.00	46.081	21344.	87.621	-57515.	3.3380
942.00	48.038	23320.	89.767	-61241.	3.3958
942.00	42.928	26111.	92.730	-61241.	3.3958
950.00	42.928	26454.	93.093	-61984.	3.4080
1000.0	42.928	28600.	95.295	-66694.	3.4837
1049.0	42.928	30704.	97.348	-71414.	3.5560
1049.0	38.284	35461.	101.88	-71414.	3.5560
1050.0	38.284	35499.	101.92	-71516.	3.5576
1100.0	38.284	37414.	103.70	-76657.	3.6400
1150.0	38.284	39328.	105.40	-81885.	3.7192
1200.0	38.284	41242.	107.03	-87196.	3.7954
1250.0	38.284	43156.	108.59	-92587.	3.8689
1300.0	38.284	45070.	110.10	-98054.	3.9398
1350.0	38.284	46984.	111.54	-1.03596E+05	4.0083
1400.0	38.284	48899.	112.93	-1.09208E+05	4.0745
1408.0	38.284	49205.	113.15	-1.10112E+05	4.0849
1408.0	48.660	58347.	119.64	-1.10112E+05	4.0849
1450.0	48.660	60391.	121.07	-1.15167E+05	4.1487
1500.0	48.660	62824.	122.72	-1.21262E+05	4.2226
1550.0	48.660	65257.	124.32	-1.27439E+05	4.2945
1600.0	48.660	67690.	125.86	-1.33694E+05	4.3645
1650.0	48.660	70123.	127.36	-1.40024E+05	4.4327
1700.0	48.660	72556.	128.81	-1.46429E+05	4.4991
1750.0	48.660	74989.	130.23	-1.52905E+05	4.5639
1800.0	48.660	77422.	131.60	-1.59451E+05	4.6270
1850.0	48.660	79855.	132.93	-1.66064E+05	4.6887
1900.0	48.660	82288.	134.23	-1.72743E+05	4.7489
1950.0	48.660	84721.	135.49	-1.79486E+05	4.8078
2000.0	48.660	87154.	136.72	-1.86292E+05	4.8653
2050.0	48.660	89587.	137.92	-1.93158E+05	4.9216
2100.0	48.660	92020.	139.10	-2.00084E+05	4.9767
2150.0	48.660	94453.	140.24	-2.07067E+05	5.0306
2200.0	48.660	96886.	141.36	-2.14107E+05	5.0834
2250.0	48.660	99319.	142.45	-2.21203E+05	5.1352
2300.0	48.660	1.01752E+05	143.52	-2.28352E+05	5.1859
2350.0	48.660	1.04185E+05	144.57	-2.35555E+05	5.2357
2400.0	48.660	1.06618E+05	145.59	-2.42809E+05	5.2845
2450.0	48.660	1.09051E+05	146.60	-2.50114E+05	5.3324
2500.0	48.660	1.11484E+05	147.58	-2.57468E+05	5.3794
2550.0	48.660	1.13917E+05	148.54	-2.64872E+05	5.4255
2600.0	48.660	1.16350E+05	149.49	-2.72323E+05	5.4709
2650.0	48.660	1.18783E+05	150.42	-2.79820E+05	5.5154
2700.0	48.660	1.21216E+05	151.33	-2.87364E+05	5.5592
2750.0	48.660	1.23649E+05	152.22	-2.94953E+05	5.6023
2800.0	48.660	1.26082E+05	153.10	-3.02585E+05	5.6447
2850.0	48.660	1.28515E+05	153.96	-3.10262E+05	5.6863
2900.0	48.660	1.30948E+05	154.80	-3.17981E+05	5.7273
2950.0	48.660	1.33381E+05	155.63	-3.25742E+05	5.7677
3000.0	48.660	1.35814E+05	156.45	-3.33544E+05	5.8074

U<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	23.693	5.35000E+05	199.79	4.75434E+05	-83.292
300.00	23.709	5.35044E+05	199.93	4.75064E+05	-82.714
350.00	23.948	5.36237E+05	203.61	4.64973E+05	-69.392
400.00	23.947	5.37435E+05	206.81	4.54711E+05	-59.378
450.00	23.838	5.38630E+05	209.63	4.44298E+05	-51.572
500.00	23.688	5.39818E+05	212.13	4.33753E+05	-45.313
550.00	23.538	5.40998E+05	214.38	4.23090E+05	-40.181
600.00	23.410	5.42172E+05	216.42	4.12319E+05	-35.895
650.00	23.320	5.43340E+05	218.29	4.01450E+05	-32.260
700.00	23.277	5.44505E+05	220.02	3.90492E+05	-29.138
750.00	23.289	5.45669E+05	221.62	3.79451E+05	-26.427
800.00	23.358	5.46835E+05	223.13	3.68331E+05	-24.049
850.00	23.490	5.48006E+05	224.55	3.57139E+05	-21.947
900.00	23.686	5.49185E+05	225.90	3.45878E+05	-20.074
950.00	23.912	5.50374E+05	227.18	3.34550E+05	-18.394
1000.0	24.214	5.51577E+05	228.42	3.23160E+05	-16.880
1050.0	24.579	5.52797E+05	229.61	3.11709E+05	-15.506
1100.0	24.995	5.54036E+05	230.76	3.00200E+05	-14.255
1150.0	25.455	5.55297E+05	231.88	2.88634E+05	-13.110
1200.0	25.952	5.56582E+05	232.97	2.77012E+05	-12.058
1250.0	26.480	5.57893E+05	234.04	2.65337E+05	-11.088
1300.0	27.034	5.59230E+05	235.09	2.53608E+05	-10.190
1350.0	27.611	5.60596E+05	236.12	2.41828E+05	-9.3566
1400.0	28.209	5.61992E+05	237.14	2.29996E+05	-8.5810
1450.0	28.823	5.63418E+05	238.14	2.18114E+05	-7.8571
1500.0	29.453	5.64874E+05	239.13	2.06182E+05	-7.1797
1550.0	30.097	5.66363E+05	240.10	1.94201E+05	-6.5444
1600.0	30.753	5.67884E+05	241.07	1.82172E+05	-5.9472
1650.0	31.420	5.69439E+05	242.03	1.70095E+05	-5.3846
1700.0	32.097	5.71027E+05	242.97	1.57969E+05	-4.8537
1750.0	32.783	5.72649E+05	243.92	1.45797E+05	-4.3517
1800.0	33.477	5.74305E+05	244.85	1.33578E+05	-3.8762
1850.0	34.178	5.75996E+05	245.78	1.21312E+05	-3.4252
1900.0	34.886	5.77723E+05	246.70	1.09001E+05	-2.9966
1950.0	35.600	5.79485E+05	247.61	96643.	-2.5887
2000.0	36.321	5.81283E+05	248.52	84240.	-2.2001
2050.0	37.026	5.83117E+05	249.43	71791.	-1.8292
2100.0	37.733	5.84986E+05	250.33	59297.	-1.4749
2150.0	38.440	5.86890E+05	251.22	46758.	-1.1360
2200.0	39.145	5.88830E+05	252.12	34175.	-0.81139
2250.0	39.846	5.90804E+05	253.00	21547.	-0.50020
2300.0	40.541	5.92814E+05	253.89	8874.4	-0.20154
2350.0	41.229	5.94858E+05	254.77	-3842.0	8.5E-02
2400.0	41.908	5.96937E+05	255.64	-16602.	0.36133
2450.0	42.578	5.99049E+05	256.51	-29406.	0.62693
2500.0	43.238	6.01195E+05	257.38	-42253.	0.88281
2550.0	43.886	6.03373E+05	258.24	-55144.	1.1295
2600.0	44.522	6.05583E+05	259.10	-68077.	1.3677
2650.0	45.145	6.07825E+05	259.95	-81054.	1.5976
2700.0	45.754	6.10097E+05	260.80	-94073.	1.8199
2750.0	46.349	6.12400E+05	261.65	-1.07134E+05	2.0349
2800.0	46.928	6.14732E+05	262.49	-1.20238E+05	2.2430
2850.0	47.492	6.17092E+05	263.32	-1.33383E+05	2.4446
2900.0	48.041	6.19481E+05	264.16	-1.46570E+05	2.6399
2950.0	48.572	6.21896E+05	264.98	-1.59798E+05	2.8294
3000.0	49.087	6.24338E+05	265.80	-1.73068E+05	3.0133

UB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	57.292	-1.64431E+05	55.103	-1.80860E+05	31.685
300.00	57.736	-1.64325E+05	55.459	-1.80962E+05	31.508
350.00	66.979	-1.61187E+05	65.113	-1.83977E+05	27.456
400.00	72.674	-1.57685E+05	74.458	-1.87468E+05	24.480
450.00	76.358	-1.53953E+05	83.245	-1.91413E+05	22.218
500.00	78.839	-1.50069E+05	91.427	-1.95783E+05	20.453
550.00	80.577	-1.46081E+05	99.027	-2.00546E+05	19.046
600.00	81.848	-1.42019E+05	106.10	-2.05677E+05	17.905
650.00	82.825	-1.37902E+05	112.69	-2.11148E+05	16.968
700.00	83.625	-1.33740E+05	118.86	-2.16938E+05	16.188
750.00	84.323	-1.29541E+05	124.65	-2.23027E+05	15.533
800.00	84.975	-1.25308E+05	130.11	-2.29398E+05	14.978
850.00	85.618	-1.21043E+05	135.28	-2.36034E+05	14.504
900.00	86.281	-1.16746E+05	140.19	-2.42922E+05	14.098
950.00	86.985	-1.12415E+05	144.88	-2.50049E+05	13.748
1000.0	87.747	-1.08047E+05	149.36	-2.57406E+05	13.445
1050.0	88.577	-1.03639E+05	153.66	-2.64982E+05	13.182
1100.0	89.486	-99188.	157.80	-2.72769E+05	12.952
1150.0	90.482	-94689.	161.80	-2.80760E+05	12.752
1200.0	91.569	-90138.	165.67	-2.88947E+05	12.577
1250.0	92.753	-85530.	169.44	-2.97326E+05	12.424
1300.0	94.038	-80861.	173.10	-3.05889E+05	12.290
1350.0	95.427	-76125.	176.67	-3.14634E+05	12.174
1400.0	96.922	-71316.	180.17	-3.23556E+05	12.072
1450.0	98.526	-66431.	183.60	-3.32650E+05	11.983
1500.0	100.24	-61462.	186.97	-3.41914E+05	11.906
1550.0	102.07	-56405.	190.28	-3.51346E+05	11.840
1600.0	104.01	-51253.	193.56	-3.60942E+05	11.783
1650.0	106.06	-46002.	196.79	-3.70701E+05	11.735
1700.0	108.23	-40645.	199.99	-3.80620E+05	11.695
1750.0	110.52	-35177.	203.16	-3.90699E+05	11.661
1800.0	112.92	-29591.	206.30	-4.00936E+05	11.635
1850.0	115.44	-23883.	209.43	-4.11329E+05	11.614
1900.0	118.08	-18045.	212.54	-4.21878E+05	11.598
1950.0	120.84	-12073.	215.65	-4.32583E+05	11.587
2000.0	123.71	-5959.8	218.74	-4.43443E+05	11.581
2050.0	126.71	300.25	221.83	-4.54457E+05	11.579
2100.0	129.82	6713.0	224.92	-4.65626E+05	11.582
2150.0	133.06	13284.	228.02	-4.76950E+05	11.587
2200.0	136.41	20021.	231.11	-4.88428E+05	11.596
2250.0	139.89	26928.	234.22	-5.00061E+05	11.609
2300.0	143.48	34011.	237.33	-5.11850E+05	11.624

UB4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	78.911	-2.45601E+05	71.128	-2.66808E+05	46.742
300.00	79.480	-2.45454E+05	71.618	-2.66940E+05	46.477
350.00	91.911	-2.41148E+05	84.868	-2.70852E+05	40.421
400.00	100.49	-2.36327E+05	97.733	-2.75420E+05	35.965
450.00	106.83	-2.31136E+05	109.95	-2.80615E+05	32.572
500.00	111.78	-2.25667E+05	121.47	-2.86403E+05	29.920
550.00	115.81	-2.19974E+05	132.32	-2.92751E+05	27.802
600.00	119.23	-2.14096E+05	142.55	-2.99625E+05	26.084
650.00	122.22	-2.08058E+05	152.21	-3.06996E+05	24.670
700.00	124.89	-2.01879E+05	161.37	-3.14838E+05	23.493
750.00	127.32	-1.95573E+05	170.07	-3.23126E+05	22.504
800.00	129.58	-1.89150E+05	178.36	-3.31838E+05	21.666
850.00	131.69	-1.82618E+05	186.28	-3.40956E+05	20.952
900.00	133.70	-1.75982E+05	193.86	-3.50461E+05	20.340
950.00	135.63	-1.69249E+05	201.15	-3.60337E+05	19.812
1000.0	137.49	-1.62420E+05	208.15	-3.70571E+05	19.356
1050.0	139.29	-1.55501E+05	214.90	-3.81148E+05	18.961
1100.0	141.04	-1.48493E+05	221.42	-3.92057E+05	18.617
1150.0	142.76	-1.41397E+05	227.73	-4.03287E+05	18.317
1200.0	144.44	-1.34217E+05	233.84	-4.14827E+05	18.056

UB12

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	169.58	-4.33044E+05	139.75	-4.74709E+05	83.165
300.00	171.37	-4.32729E+05	140.80	-4.74969E+05	82.697
350.00	209.76	-4.23128E+05	170.32	-4.82741E+05	72.043
400.00	234.94	-4.11970E+05	200.09	-4.92004E+05	64.248
450.00	252.44	-3.99761E+05	228.83	-5.02732E+05	58.354
500.00	265.18	-3.86804E+05	256.12	-5.14862E+05	53.786
550.00	274.81	-3.73294E+05	281.86	-5.28318E+05	50.174
600.00	282.31	-3.59359E+05	306.11	-5.43023E+05	47.273
650.00	288.32	-3.45088E+05	328.95	-5.58905E+05	44.913
700.00	293.25	-3.30545E+05	350.50	-5.75897E+05	42.973
750.00	297.37	-3.15777E+05	370.88	-5.93936E+05	41.364
800.00	300.88	-3.00818E+05	390.19	-6.12967E+05	40.022
850.00	303.92	-2.85696E+05	408.52	-6.32938E+05	38.895
900.00	306.60	-2.70432E+05	425.97	-6.53804E+05	37.945
950.00	308.98	-2.55042E+05	442.61	-6.75522E+05	37.142
1000.0	311.12	-2.39538E+05	458.51	-6.98053E+05	36.462
1050.0	313.07	-2.23932E+05	473.74	-7.21362E+05	35.885
1100.0	314.87	-2.08233E+05	488.35	-7.45417E+05	35.396
1150.0	316.53	-1.92448E+05	502.38	-7.70188E+05	34.982
1200.0	318.08	-1.76582E+05	515.89	-7.95646E+05	34.633

V

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.354	0.00000E+00	30.890	-9209.9	1.6135
300.00	24.384	45.082	31.041	-9267.1	1.6135
350.00	25.079	1282.4	34.854	-10917.	1.6292
400.00	25.627	2550.6	38.240	-12745.	1.6643
450.00	26.088	3843.7	41.286	-14735.	1.7103
500.00	26.494	5158.5	44.056	-16869.	1.7623
550.00	26.862	6492.5	46.598	-19137.	1.8174
600.00	27.203	7844.2	48.951	-21526.	1.8740
650.00	27.524	9212.4	51.141	-24029.	1.9309
700.00	27.830	10596.	53.192	-26638.	1.9877
750.00	28.123	11995.	55.122	-29346.	2.0438
800.00	28.411	13408.	56.946	-32148.	2.0990
850.00	28.742	14837.	58.678	-35039.	2.1532
900.00	29.092	16283.	60.331	-38015.	2.2063
950.00	29.463	17747.	61.914	-41071.	2.2582
1000.0	29.855	19230.	63.435	-44205.	2.3090
1050.0	30.267	20733.	64.901	-47414.	2.3586
1100.0	30.699	22257.	66.319	-50694.	2.4072
1150.0	31.152	23803.	67.694	-54045.	2.4547
1200.0	31.625	25372.	69.029	-57463.	2.5012
1250.0	32.119	26966.	70.330	-60947.	2.5468
1300.0	32.633	28584.	71.600	-64496.	2.5914
1350.0	33.167	30229.	72.842	-68107.	2.6351
1400.0	33.722	31901.	74.058	-71779.	2.6781
1450.0	34.297	33602.	75.251	-75512.	2.7202
1500.0	34.892	35332.	76.424	-79304.	2.7615
1550.0	35.508	37091.	77.578	-83154.	2.8022
1600.0	36.145	38883.	78.715	-87062.	2.8422
1650.0	36.802	40706.	79.837	-91026.	2.8816
1700.0	37.479	42563.	80.946	-95045.	2.9203
1750.0	38.176	44455.	82.043	-99120.	2.9585
1800.0	38.894	46381.	83.128	-1.03249E+05	2.9961
1850.0	39.633	48344.	84.204	-1.07433E+05	3.0333
1900.0	40.391	50345.	85.271	-1.11670E+05	3.0699
1950.0	41.170	52384.	86.330	-1.15960E+05	3.1061
2000.0	41.970	54462.	87.382	-1.20302E+05	3.1419
2050.0	42.790	56581.	88.429	-1.24698E+05	3.1773
2100.0	43.630	58741.	89.470	-1.29145E+05	3.2122
2150.0	44.491	60944.	90.507	-1.33645E+05	3.2468
2183.0	45.070	62422.	91.189	-1.36643E+05	3.2695
2183.0	47.430	83922.	101.04	-1.36643E+05	3.2695
2200.0	47.430	84729.	101.41	-1.38363E+05	3.2851
2250.0	47.430	87100.	102.47	-1.43460E+05	3.3304
2300.0	47.430	89472.	103.51	-1.48610E+05	3.3750
2350.0	47.430	91843.	104.53	-1.53811E+05	3.4188
2400.0	47.430	94215.	105.53	-1.59063E+05	3.4618
2450.0	47.430	96586.	106.51	-1.64364E+05	3.5042
2500.0	47.430	98958.	107.47	-1.69714E+05	3.5459
2550.0	47.430	1.01329E+05	108.41	-1.75111E+05	3.5869
2600.0	47.430	1.03701E+05	109.33	-1.80554E+05	3.6273
2650.0	47.430	1.06072E+05	110.23	-1.86043E+05	3.6670
2700.0	47.430	1.08444E+05	111.12	-1.91577E+05	3.7062
2750.0	47.430	1.10815E+05	111.99	-1.97155E+05	3.7447
2800.0	47.430	1.13187E+05	112.84	-2.02776E+05	3.7827
2850.0	47.430	1.15558E+05	113.68	-2.08439E+05	3.8202
2900.0	47.430	1.17930E+05	114.51	-2.14144E+05	3.8571
2950.0	47.430	1.20301E+05	115.32	-2.19890E+05	3.8934
3000.0	47.430	1.22673E+05	116.12	-2.25676E+05	3.9293

V<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.017	5.17327E+05	182.30	4.62975E+05	-81.109
300.00	25.976	5.17375E+05	182.46	4.62637E+05	-80.550
350.00	25.120	5.18651E+05	186.39	4.53413E+05	-67.666
400.00	24.627	5.19893E+05	189.71	4.44008E+05	-57.980
450.00	24.358	5.21117E+05	192.60	4.34449E+05	-50.428
500.00	24.235	5.22331E+05	195.15	4.24754E+05	-44.373
550.00	24.219	5.23542E+05	197.46	4.14938E+05	-39.407
600.00	24.283	5.24755E+05	199.57	4.05011E+05	-35.258
650.00	24.454	5.25973E+05	201.52	3.94983E+05	-31.740
700.00	24.614	5.27200E+05	203.34	3.84861E+05	-28.718
750.00	24.759	5.28434E+05	205.04	3.74651E+05	-26.092
800.00	24.889	5.29675E+05	206.65	3.64359E+05	-23.790
850.00	25.000	5.30923E+05	208.16	3.53988E+05	-21.753
900.00	25.092	5.32175E+05	209.59	3.43544E+05	-19.938
950.00	25.165	5.33432E+05	210.95	3.33030E+05	-18.311
1000.0	25.217	5.34691E+05	212.24	3.22450E+05	-16.843
1050.0	25.249	5.35953E+05	213.47	3.11807E+05	-15.511
1100.0	25.259	5.37216E+05	214.65	3.01104E+05	-14.298
1150.0	25.248	5.38478E+05	215.77	2.90343E+05	-13.187
1200.0	25.215	5.39740E+05	216.84	2.79528E+05	-12.167
1250.0	25.151	5.40999E+05	217.87	2.68660E+05	-11.226
1300.0	25.084	5.42255E+05	218.86	2.57741E+05	-10.356
1350.0	25.016	5.43508E+05	219.80	2.46775E+05	-9.5481
1400.0	24.949	5.44757E+05	220.71	2.35762E+05	-8.7962
1450.0	24.883	5.46002E+05	221.58	2.24704E+05	-8.0945
1500.0	24.820	5.47245E+05	222.43	2.13604E+05	-7.4382
1550.0	24.761	5.48485E+05	223.24	2.02462E+05	-6.8228
1600.0	24.707	5.49721E+05	224.03	1.91280E+05	-6.2445
1650.0	24.657	5.50955E+05	224.79	1.80060E+05	-5.7001
1700.0	24.613	5.52187E+05	225.52	1.68802E+05	-5.1865
1750.0	24.575	5.53417E+05	226.23	1.57508E+05	-4.7012
1800.0	24.543	5.54645E+05	226.93	1.46179E+05	-4.2419
1850.0	24.518	5.55871E+05	227.60	1.34816E+05	-3.8064
1900.0	24.501	5.57097E+05	228.25	1.23420E+05	-3.3930
1950.0	24.490	5.58321E+05	228.89	1.11991E+05	-2.9998
2000.0	24.487	5.59546E+05	229.51	1.00531E+05	-2.6255
2050.0	24.492	5.60770E+05	230.11	89041.	-2.2687
2100.0	24.504	5.61995E+05	230.70	77520.	-1.9282
2150.0	24.525	5.63221E+05	231.28	65971.	-1.6027
2200.0	24.554	5.64448E+05	231.84	54393.	-1.2914
2250.0	24.591	5.65676E+05	232.40	42787.	-0.99329
2300.0	24.637	5.66907E+05	232.94	31153.	-0.70750
2350.0	24.691	5.68140E+05	233.47	19493.	-0.43328
2400.0	24.754	5.69376E+05	233.99	7806.9	-0.16991
2450.0	24.826	5.70616E+05	234.50	-3905.2	8.3E-02
2500.0	24.906	5.71859E+05	235.00	-15643.	0.32683
2550.0	24.996	5.73107E+05	235.49	-27405.	0.56136
2600.0	25.094	5.74359E+05	235.98	-39192.	0.78736
2650.0	25.201	5.75616E+05	236.46	-51003.	1.0053
2700.0	25.317	5.76879E+05	236.93	-62838.	1.2156
2750.0	25.442	5.78148E+05	237.40	-74696.	1.4188
2800.0	25.577	5.79423E+05	237.86	-86578.	1.6151
2850.0	25.720	5.80706E+05	238.31	-98482.	1.8049
2900.0	25.873	5.81996E+05	238.76	-1.10409E+05	1.9886
2950.0	26.035	5.83293E+05	239.20	-1.22358E+05	2.1665
3000.0	26.206	5.84599E+05	239.64	-1.34329E+05	2.3388

VC12

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	72.199	-4.51000E+05	99.420	-4.80642E+05	84.204
300.00	72.266	-4.50866E+05	99.867	-4.80826E+05	83.717
350.00	73.803	-4.47213E+05	111.13	-4.86108E+05	72.546
400.00	74.991	-4.43492E+05	121.06	-4.91917E+05	64.236
450.00	75.975	-4.39717E+05	129.95	-4.98197E+05	57.828
500.00	76.833	-4.35896E+05	138.00	-5.04899E+05	52.745
550.00	77.609	-4.32035E+05	145.36	-5.11985E+05	48.623
600.00	78.328	-4.28136E+05	152.15	-5.19426E+05	45.219
650.00	79.008	-4.24203E+05	158.45	-5.27192E+05	42.365
700.00	79.659	-4.20236E+05	164.32	-5.35263E+05	39.941
750.00	80.289	-4.16237E+05	169.84	-5.43619E+05	37.860
800.00	80.902	-4.12208E+05	175.04	-5.52242E+05	36.057
850.00	81.504	-4.08147E+05	179.97	-5.61118E+05	34.481
900.00	82.095	-4.04057E+05	184.64	-5.70234E+05	33.095
950.00	82.679	-3.99938E+05	189.10	-5.79579E+05	31.867
1000.0	83.256	-3.95790E+05	193.35	-5.89141E+05	30.773
1050.0	83.828	-3.91612E+05	197.43	-5.98911E+05	29.793
1100.0	84.397	-3.87407E+05	201.34	-6.08881E+05	28.913
1150.0	84.961	-3.83173E+05	205.10	-6.19042E+05	28.117
1200.0	85.523	-3.78911E+05	208.73	-6.29389E+05	27.396
1250.0	86.082	-3.74621E+05	212.23	-6.39913E+05	26.740
1300.0	86.640	-3.70303E+05	215.62	-6.50610E+05	26.141
1350.0	87.195	-3.65957E+05	218.90	-6.61474E+05	25.593
1400.0	87.749	-3.61583E+05	222.08	-6.72499E+05	25.091
1450.0	88.302	-3.57182E+05	225.17	-6.83681E+05	24.628
1500.0	88.853	-3.52753E+05	228.17	-6.95015E+05	24.202
1550.0	89.404	-3.48296E+05	231.10	-7.06497E+05	23.808
1600.0	89.953	-3.43813E+05	233.94	-7.18123E+05	23.444
1623.0	90.206	-3.41741E+05	235.23	-7.23518E+05	23.285
1623.0	105.00	-3.06741E+05	256.79	-7.23519E+05	23.285
1650.0	105.00	-3.03906E+05	258.53	-7.30475E+05	23.124
1700.0	105.00	-2.98656E+05	261.66	-7.43480E+05	22.844
1750.0	105.00	-2.93406E+05	264.71	-7.56640E+05	22.584
1800.0	105.00	-2.88156E+05	267.66	-7.69950E+05	22.343
1850.0	105.00	-2.82906E+05	270.54	-7.83405E+05	22.119
1900.0	105.00	-2.77656E+05	273.34	-7.97002E+05	21.911
1950.0	105.00	-2.72406E+05	276.07	-8.10738E+05	21.717
2000.0	105.00	-2.67156E+05	278.73	-8.24608E+05	21.536
2050.0	105.00	-2.61906E+05	281.32	-8.38609E+05	21.367
2100.0	105.00	-2.56656E+05	283.85	-8.52739E+05	21.210
2150.0	105.00	-2.51406E+05	286.32	-8.66993E+05	21.063
2200.0	105.00	-2.46156E+05	288.73	-8.81370E+05	20.926
2250.0	105.00	-2.40906E+05	291.09	-8.95866E+05	20.797
2300.0	105.00	-2.35656E+05	293.40	-9.10478E+05	20.677
2350.0	105.00	-2.30406E+05	295.66	-9.25205E+05	20.564
2400.0	105.00	-2.25156E+05	297.87	-9.40043E+05	20.459
2450.0	105.00	-2.19906E+05	300.03	-9.54991E+05	20.360
2500.0	105.00	-2.14656E+05	302.16	-9.70046E+05	20.267
2550.0	105.00	-2.09406E+05	304.24	-9.85206E+05	20.181
2600.0	105.00	-2.04156E+05	306.27	-1.00047E+06	20.099
2650.0	105.00	-1.98906E+05	308.27	-1.01583E+06	20.023
2700.0	105.00	-1.93656E+05	310.24	-1.03130E+06	19.951
2750.0	105.00	-1.88406E+05	312.16	-1.04686E+06	19.884
2800.0	105.00	-1.83156E+05	314.06	-1.06251E+06	19.821
2850.0	105.00	-1.77906E+05	315.91	-1.07826E+06	19.762
2900.0	105.00	-1.72656E+05	317.74	-1.09410E+06	19.706
2950.0	105.00	-1.67406E+05	319.54	-1.11003E+06	19.655
3000.0	105.00	-1.62156E+05	321.30	-1.12606E+06	19.606

VBr2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	77.381	-3.64426E+05	125.52	-4.01850E+05	70.401
300.00	77.404	-3.64283E+05	126.00	-4.02082E+05	70.007
350.00	78.032	-3.60397E+05	137.98	-4.08689E+05	60.992
400.00	78.659	-3.56480E+05	148.44	-4.15855E+05	54.304
450.00	79.287	-3.52531E+05	157.74	-4.23514E+05	49.159
500.00	79.914	-3.48551E+05	166.13	-4.31614E+05	45.089
550.00	80.542	-3.44540E+05	173.77	-4.40114E+05	41.797
600.00	81.170	-3.40497E+05	180.81	-4.48981E+05	39.086
650.00	81.797	-3.36423E+05	187.33	-4.58186E+05	36.819
700.00	82.425	-3.32317E+05	193.41	-4.67706E+05	34.900
750.00	83.052	-3.28180E+05	199.12	-4.77521E+05	33.257
800.00	83.680	-3.24012E+05	204.50	-4.87613E+05	31.837
850.00	84.308	-3.19812E+05	209.59	-4.97966E+05	30.601
900.00	84.935	-3.15581E+05	214.43	-5.08568E+05	29.516

VBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	101.65	-4.47688E+05	142.26	-4.90102E+05	85.862
300.00	101.71	-4.47500E+05	142.88	-4.90365E+05	85.378
350.00	103.32	-4.42374E+05	158.69	-4.97914E+05	74.308
400.00	104.93	-4.37168E+05	172.59	-5.06202E+05	66.102
450.00	106.55	-4.31881E+05	185.04	-5.15148E+05	59.795
500.00	108.16	-4.26513E+05	196.35	-5.24687E+05	54.812
550.00	109.77	-4.21065E+05	206.73	-5.34768E+05	50.787
600.00	111.38	-4.15536E+05	216.35	-5.45348E+05	47.476
650.00	112.99	-4.09927E+05	225.33	-5.56393E+05	44.711
700.00	114.60	-4.04237E+05	233.76	-5.67872E+05	42.374
750.00	116.21	-3.98467E+05	241.73	-5.79761E+05	40.377
800.00	117.82	-3.92616E+05	249.28	-5.92038E+05	38.655
850.00	119.43	-3.86685E+05	256.47	-6.04683E+05	37.158
900.00	121.04	-3.80673E+05	263.34	-6.17679E+05	35.848
950.00	122.65	-3.74581E+05	269.93	-6.31012E+05	34.695
1000.0	124.26	-3.68408E+05	276.26	-6.44668E+05	33.673

V3B2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	97.096	-3.03758E+05	86.944	-3.29681E+05	57.757
300.00	97.395	-3.03579E+05	87.546	-3.29842E+05	57.429
350.00	104.23	-2.98529E+05	103.10	-3.34614E+05	49.937
400.00	109.40	-2.93183E+05	117.37	-3.40131E+05	44.415
450.00	113.61	-2.87605E+05	130.51	-3.46332E+05	40.200
500.00	117.21	-2.81832E+05	142.67	-3.53165E+05	36.894
550.00	120.41	-2.75890E+05	153.99	-3.60585E+05	34.245
600.00	123.32	-2.69796E+05	164.59	-3.68552E+05	32.084
650.00	126.03	-2.63561E+05	174.57	-3.77034E+05	30.298
700.00	128.59	-2.57195E+05	184.01	-3.86000E+05	28.803
750.00	131.03	-2.50704E+05	192.96	-3.95426E+05	27.539
800.00	133.38	-2.44094E+05	201.49	-4.05289E+05	26.462
850.00	135.64	-2.37368E+05	209.65	-4.15569E+05	25.537
900.00	137.85	-2.30530E+05	217.46	-4.26249E+05	24.738
950.00	139.99	-2.23584E+05	224.98	-4.37311E+05	24.044
1000.0	142.09	-2.16532E+05	232.21	-4.48742E+05	23.439
1050.0	144.15	-2.09375E+05	239.19	-4.60528E+05	22.909
1100.0	146.17	-2.02117E+05	245.95	-4.72657E+05	22.444
1150.0	148.15	-1.94759E+05	252.49	-4.85119E+05	22.034
1200.0	150.36	-1.87302E+05	258.83	-4.97903E+05	21.673
1250.0	152.67	-1.79727E+05	265.02	-5.10999E+05	21.353
1300.0	155.04	-1.72035E+05	271.05	-5.24402E+05	21.070
1350.0	157.47	-1.64222E+05	276.95	-5.38102E+05	20.820
1400.0	159.97	-1.56286E+05	282.72	-5.52095E+05	20.598
1450.0	162.52	-1.48224E+05	288.38	-5.66373E+05	20.402
1500.0	165.15	-1.40033E+05	293.93	-5.80931E+05	20.229
1550.0	167.83	-1.31709E+05	299.39	-5.95764E+05	20.077
1600.0	170.58	-1.23249E+05	304.76	-6.10868E+05	19.942
1650.0	173.39	-1.14650E+05	310.05	-6.26239E+05	19.825
1700.0	176.26	-1.05909E+05	315.27	-6.41872E+05	19.722
1750.0	179.20	-97022.	320.42	-6.57765E+05	19.633
1800.0	182.20	-87988.	325.51	-6.73914E+05	19.556
1850.0	185.27	-78801.	330.55	-6.90316E+05	19.491
1900.0	188.40	-69459.	335.53	-7.06968E+05	19.435
1950.0	191.59	-59960.	340.47	-7.23868E+05	19.390
2000.0	194.85	-50299.	345.36	-7.41014E+05	19.353
2050.0	198.17	-40474.	350.21	-7.58403E+05	19.324
2100.0	201.56	-30481.	355.03	-7.76034E+05	19.302
2150.0	205.01	-20317.	359.81	-7.93905E+05	19.288
2200.0	208.52	-9978.9	364.56	-8.12014E+05	19.279
2250.0	212.10	536.19	369.29	-8.30361E+05	19.277
2300.0	215.74	11232.	373.99	-8.48943E+05	19.280
2350.0	219.44	22111.	378.67	-8.67759E+05	19.288
2400.0	223.21	33177.	383.33	-8.86809E+05	19.300
2450.0	227.04	44433.	387.97	-9.06092E+05	19.318
2500.0	230.94	55883.	392.60	-9.25606E+05	19.339

VB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.019	-1.38490E+05	29.288	-1.47223E+05	25.792
300.00	36.158	-1.38424E+05	29.511	-1.47277E+05	25.643
350.00	39.320	-1.36532E+05	35.336	-1.48900E+05	22.222
400.00	41.702	-1.34504E+05	40.748	-1.50804E+05	19.692
450.00	43.624	-1.32370E+05	45.774	-1.52968E+05	17.756
500.00	45.251	-1.30147E+05	50.457	-1.55375E+05	16.232
550.00	46.679	-1.27848E+05	54.838	-1.58009E+05	15.006
600.00	47.965	-1.25481E+05	58.956	-1.60855E+05	14.003
650.00	49.145	-1.23053E+05	62.842	-1.63901E+05	13.171
700.00	50.243	-1.20568E+05	66.525	-1.67136E+05	12.471
750.00	51.274	-1.18030E+05	70.027	-1.70550E+05	11.878
800.00	52.250	-1.15442E+05	73.367	-1.74136E+05	11.370
850.00	53.179	-1.12806E+05	76.563	-1.77884E+05	10.931
900.00	54.067	-1.10124E+05	79.628	-1.81790E+05	10.551
950.00	54.917	-1.07400E+05	82.574	-1.85845E+05	10.218
1000.0	55.734	-1.04633E+05	85.412	-1.90045E+05	9.9267
1050.0	56.519	-1.01827E+05	88.150	-1.94385E+05	9.6699
1100.0	57.276	-98982.	90.797	-1.98859E+05	9.4428
1150.0	58.004	-96100.	93.359	-2.03463E+05	9.2414
1200.0	58.834	-93182.	95.843	-2.08194E+05	9.0622
1250.0	59.704	-90219.	98.262	-2.13046E+05	8.9025
1300.0	60.595	-87211.	100.62	-2.18019E+05	8.7599
1350.0	61.507	-84159.	102.93	-2.23108E+05	8.6323
1400.0	62.440	-81060.	105.18	-2.28310E+05	8.5182
1450.0	63.393	-77914.	107.39	-2.33625E+05	8.4159
1500.0	64.368	-74720.	109.55	-2.39048E+05	8.3242
1550.0	65.364	-71477.	111.68	-2.44579E+05	8.2421
1600.0	66.381	-68184.	113.77	-2.50216E+05	8.1685
1650.0	67.419	-64839.	115.83	-2.55956E+05	8.1027
1700.0	68.478	-61441.	117.86	-2.61798E+05	8.0439
1750.0	69.559	-57991.	119.86	-2.67741E+05	7.9914
1800.0	70.661	-54485.	121.83	-2.73783E+05	7.9448
1850.0	71.783	-50924.	123.78	-2.79924E+05	7.9034
1900.0	72.928	-47306.	125.71	-2.86161E+05	7.8669
1950.0	74.093	-43631.	127.62	-2.92495E+05	7.8349
2000.0	75.280	-39897.	129.51	-2.98923E+05	7.8069
2050.0	76.488	-36103.	131.39	-3.05446E+05	7.7827
2100.0	77.717	-32248.	133.24	-3.12062E+05	7.7619
2150.0	78.968	-28331.	135.09	-3.18770E+05	7.7444
2200.0	80.240	-24350.	136.92	-3.25570E+05	7.7298
2250.0	81.533	-20306.	138.74	-3.32462E+05	7.7180
2300.0	82.848	-16197.	140.54	-3.39444E+05	7.7088
2350.0	84.184	-12021.	142.34	-3.46516E+05	7.7020
2400.0	85.541	-7778.0	144.12	-3.53677E+05	7.6974
2450.0	86.920	-3466.6	145.90	-3.60928E+05	7.6949
2500.0	88.320	914.31	147.67	-3.68267E+05	7.6943

V5B6

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	191.05	-7.63580E+05	147.19	-8.07466E+05	141.46
300.00	191.86	-7.63226E+05	148.38	-8.07739E+05	140.64
350.00	210.33	-7.53146E+05	179.42	-8.15942E+05	121.77
400.00	224.22	-7.42268E+05	208.45	-8.25647E+05	107.82
450.00	235.38	-7.30769E+05	235.52	-8.36754E+05	97.125
500.00	244.80	-7.18759E+05	260.82	-8.49170E+05	88.710
550.00	253.03	-7.06308E+05	284.55	-8.62810E+05	81.941
600.00	260.41	-6.93469E+05	306.89	-8.77601E+05	76.400
650.00	267.14	-6.80278E+05	328.00	-8.93478E+05	71.799
700.00	273.37	-6.66764E+05	348.03	-9.10383E+05	67.932
750.00	279.18	-6.52948E+05	367.09	-9.28265E+05	64.648
800.00	284.64	-6.38852E+05	385.28	-9.47078E+05	61.836
850.00	289.81	-6.24489E+05	402.70	-9.66780E+05	59.410
900.00	294.70	-6.09876E+05	419.40	-9.87335E+05	57.302
950.00	299.36	-5.95023E+05	435.46	-1.00871E+06	55.461
1000.0	303.80	-5.79943E+05	450.93	-1.03087E+06	53.846
1050.0	308.02	-5.64647E+05	465.85	-1.05379E+06	52.422
1100.0	312.06	-5.49144E+05	480.28	-1.07745E+06	51.162
1150.0	315.90	-5.33444E+05	494.23	-1.10181E+06	50.045
1200.0	320.33	-5.17557E+05	507.76	-1.12686E+06	49.050
1250.0	324.99	-5.01424E+05	520.93	-1.15258E+06	48.163
1300.0	329.75	-4.85056E+05	533.77	-1.17895E+06	47.370
1350.0	334.61	-4.68448E+05	546.30	-1.20595E+06	46.660
1400.0	339.58	-4.51594E+05	558.56	-1.23358E+06	46.024
1450.0	344.65	-4.34488E+05	570.56	-1.26181E+06	45.454
1500.0	349.83	-4.17127E+05	582.34	-1.29063E+06	44.943
1550.0	355.11	-3.99504E+05	593.89	-1.32004E+06	44.484
1600.0	360.50	-3.81614E+05	605.25	-1.35002E+06	44.072
1650.0	366.00	-3.63452E+05	616.43	-1.38056E+06	43.704
1700.0	371.60	-3.45012E+05	627.44	-1.41166E+06	43.374
1750.0	377.30	-3.26290E+05	638.29	-1.44330E+06	43.079
1800.0	383.12	-3.07280E+05	649.00	-1.47548E+06	42.816
1850.0	389.03	-2.87977E+05	659.58	-1.50820E+06	42.583
1900.0	395.06	-2.68375E+05	670.03	-1.54144E+06	42.376
1950.0	401.19	-2.48469E+05	680.37	-1.57520E+06	42.194
2000.0	407.43	-2.28254E+05	690.61	-1.60947E+06	42.034
2050.0	413.77	-2.07725E+05	700.75	-1.64426E+06	41.895
2100.0	420.22	-1.86875E+05	710.80	-1.67955E+06	41.775
2150.0	426.78	-1.65701E+05	720.76	-1.71534E+06	41.673
2200.0	433.44	-1.44196E+05	730.65	-1.75162E+06	41.588
2250.0	440.21	-1.22355E+05	740.46	-1.78840E+06	41.517
2300.0	447.09	-1.00172E+05	750.22	-1.82567E+06	41.461
2350.0	454.08	-77644.	759.91	-1.86342E+06	41.418
2400.0	461.17	-54763.	769.54	-1.90166E+06	41.387
2450.0	468.36	-31525.	779.12	-1.94037E+06	41.368
2500.0	475.67	-7924.9	788.66	-1.97957E+06	41.360

V3B4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	119.02	-4.86599E+05	88.659	-5.13033E+05	89.879
300.00	119.55	-4.86379E+05	89.397	-5.13198E+05	89.353
350.00	131.69	-4.80081E+05	108.79	-5.18157E+05	77.329
400.00	140.81	-4.73259E+05	126.99	-5.24056E+05	68.433
450.00	148.13	-4.66029E+05	144.02	-5.30836E+05	61.616
500.00	154.30	-4.58465E+05	159.95	-5.38440E+05	56.249
550.00	159.67	-4.50613E+05	174.91	-5.46815E+05	51.931
600.00	164.48	-4.42507E+05	189.02	-5.55917E+05	48.396
650.00	168.85	-4.34172E+05	202.36	-5.65704E+05	45.459
700.00	172.88	-4.25628E+05	215.02	-5.76141E+05	42.991
750.00	176.63	-4.16889E+05	227.08	-5.87196E+05	40.895
800.00	180.14	-4.07969E+05	238.59	-5.98840E+05	39.099
850.00	183.44	-3.98879E+05	249.61	-6.11047E+05	37.549
900.00	186.57	-3.89628E+05	260.18	-6.23793E+05	36.203
950.00	189.52	-3.80225E+05	270.35	-6.37058E+05	35.027
1000.0	192.32	-3.70678E+05	280.14	-6.50822E+05	33.995
1050.0	194.98	-3.60995E+05	289.59	-6.65067E+05	33.084
1100.0	197.50	-3.51183E+05	298.72	-6.79776E+05	32.279
1150.0	199.89	-3.41247E+05	307.55	-6.94934E+05	31.564
1200.0	202.66	-3.31196E+05	316.11	-7.10527E+05	30.928
1250.0	205.57	-3.20990E+05	324.44	-7.26542E+05	30.360
1300.0	208.55	-3.10638E+05	332.56	-7.42968E+05	29.852
1350.0	211.59	-3.00134E+05	340.49	-7.59795E+05	29.397
1400.0	214.69	-2.89477E+05	348.24	-7.77013E+05	28.990
1450.0	217.86	-2.78664E+05	355.83	-7.94616E+05	28.624
1500.0	221.09	-2.67691E+05	363.27	-8.12594E+05	28.296
1550.0	224.38	-2.56554E+05	370.57	-8.30940E+05	28.002
1600.0	227.73	-2.45252E+05	377.75	-8.49649E+05	27.737
1650.0	231.15	-2.33780E+05	384.81	-8.68713E+05	27.500
1700.0	234.63	-2.22136E+05	391.76	-8.88128E+05	27.288
1750.0	238.18	-2.10316E+05	398.61	-9.07888E+05	27.098
1800.0	241.79	-1.98317E+05	405.37	-9.27988E+05	26.929
1850.0	245.46	-1.86136E+05	412.05	-9.48424E+05	26.778
1900.0	249.19	-1.73770E+05	418.64	-9.69191E+05	26.644
1950.0	252.99	-1.61216E+05	425.16	-9.90287E+05	26.526
2000.0	256.86	-1.48470E+05	431.62	-1.01171E+06	26.422
2050.0	260.79	-1.35529E+05	438.01	-1.03345E+06	26.332
2100.0	264.78	-1.22390E+05	444.34	-1.05551E+06	26.254
2150.0	268.83	-1.09050E+05	450.62	-1.07788E+06	26.187
2200.0	272.95	-95506.	456.85	-1.10057E+06	26.130
2250.0	277.14	-81754.	463.03	-1.12356E+06	26.083
2300.0	281.38	-67791.	469.16	-1.14687E+06	26.046
2350.0	285.70	-53614.	475.26	-1.17048E+06	26.016
2400.0	290.07	-39220.	481.32	-1.19439E+06	25.995
2450.0	294.51	-24606.	487.35	-1.21861E+06	25.980
2500.0	299.02	-9768.2	493.34	-1.24313E+06	25.973

V2B3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.997	-3.45180E+05	59.413	-3.62894E+05	63.576
300.00	83.392	-3.45026E+05	59.928	-3.63004E+05	63.203
350.00	92.373	-3.40620E+05	73.495	-3.66343E+05	54.672
400.00	99.110	-3.35826E+05	86.288	-3.70341E+05	48.360
450.00	104.51	-3.30731E+05	98.283	-3.74958E+05	43.523
500.00	109.05	-3.25389E+05	109.54	-3.80157E+05	39.714
550.00	112.99	-3.19836E+05	120.12	-3.85901E+05	36.649
600.00	116.51	-3.14097E+05	130.10	-3.92159E+05	34.140
650.00	119.70	-3.08190E+05	139.56	-3.98902E+05	32.055
700.00	122.63	-3.02131E+05	148.54	-4.06106E+05	30.303
750.00	125.35	-2.95931E+05	157.09	-4.13749E+05	28.815
800.00	127.89	-2.89599E+05	165.26	-4.21809E+05	27.541
850.00	130.26	-2.83145E+05	173.09	-4.30269E+05	26.440
900.00	132.50	-2.76575E+05	180.60	-4.39113E+05	25.485
950.00	134.60	-2.69897E+05	187.82	-4.48324E+05	24.650
1000.0	136.59	-2.63117E+05	194.77	-4.57890E+05	23.917
1050.0	138.46	-2.56240E+05	201.48	-4.67797E+05	23.271
1100.0	140.22	-2.49273E+05	207.96	-4.78034E+05	22.699
1150.0	141.88	-2.42220E+05	214.23	-4.88590E+05	22.192
1200.0	143.82	-2.35087E+05	220.31	-4.99455E+05	21.740
1250.0	145.87	-2.27845E+05	226.22	-5.10618E+05	21.337
1300.0	147.95	-2.20499E+05	231.98	-5.22074E+05	20.977
1350.0	150.08	-2.13049E+05	237.60	-5.33814E+05	20.654
1400.0	152.25	-2.05491E+05	243.10	-5.45832E+05	20.365
1450.0	154.46	-1.97823E+05	248.48	-5.58122E+05	20.105
1500.0	156.71	-1.90044E+05	253.76	-5.70679E+05	19.872
1550.0	159.01	-1.82151E+05	258.93	-5.83496E+05	19.663
1600.0	161.35	-1.74142E+05	264.02	-5.96570E+05	19.476
1650.0	163.73	-1.66015E+05	269.02	-6.09897E+05	19.307
1700.0	166.15	-1.57769E+05	273.94	-6.23471E+05	19.156
1750.0	168.61	-1.49400E+05	278.79	-6.37290E+05	19.022
1800.0	171.12	-1.40907E+05	283.58	-6.51349E+05	18.901
1850.0	173.67	-1.32287E+05	288.30	-6.65647E+05	18.794
1900.0	176.26	-1.23539E+05	292.97	-6.80179E+05	18.699
1950.0	178.90	-1.14660E+05	297.58	-6.94943E+05	18.615
2000.0	181.57	-1.05649E+05	302.14	-7.09936E+05	18.541
2050.0	184.29	-96502.	306.66	-7.25156E+05	18.477
2100.0	187.06	-87219.	311.13	-7.40601E+05	18.421
2150.0	189.86	-77796.	315.57	-7.56269E+05	18.373
2200.0	192.71	-68232.	319.97	-7.72157E+05	18.333
2250.0	195.60	-58525.	324.33	-7.88265E+05	18.299
2300.0	198.53	-48672.	328.66	-8.04590E+05	18.272
2350.0	201.51	-38671.	332.96	-8.21130E+05	18.251
2400.0	204.52	-28520.	337.24	-8.37886E+05	18.236
2450.0	207.59	-18218.	341.48	-8.54854E+05	18.225
2500.0	210.69	-7761.0	345.71	-8.72034E+05	18.220

VB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	46.978	-2.03761E+05	30.125	-2.12743E+05	37.271
300.00	47.234	-2.03674E+05	30.416	-2.12799E+05	37.051
350.00	53.053	-2.01159E+05	38.159	-2.14514E+05	32.014
400.00	57.408	-1.98392E+05	45.540	-2.16608E+05	28.285
450.00	60.886	-1.95432E+05	52.509	-2.19061E+05	25.427
500.00	63.795	-1.92313E+05	59.079	-2.21853E+05	23.176
550.00	66.313	-1.89059E+05	65.280	-2.24963E+05	21.365
600.00	68.544	-1.85687E+05	71.147	-2.28375E+05	19.881
650.00	70.554	-1.82208E+05	76.714	-2.32073E+05	18.649
700.00	72.387	-1.78634E+05	82.011	-2.36042E+05	17.613
750.00	74.073	-1.74972E+05	87.063	-2.40270E+05	16.733
800.00	75.633	-1.71229E+05	91.894	-2.44745E+05	15.980
850.00	77.081	-1.67411E+05	96.524	-2.49456E+05	15.329
900.00	78.429	-1.63523E+05	100.97	-2.54394E+05	14.764
950.00	79.683	-1.59569E+05	105.24	-2.59550E+05	14.271
1000.0	80.850	-1.55556E+05	109.36	-2.64915E+05	13.837
1050.0	81.936	-1.51486E+05	113.33	-2.70483E+05	13.455
1100.0	82.943	-1.47364E+05	117.17	-2.76246E+05	13.118
1150.0	83.874	-1.43193E+05	120.87	-2.82198E+05	12.818
1200.0	84.986	-1.38977E+05	124.46	-2.88332E+05	12.550
1250.0	86.160	-1.34699E+05	127.95	-2.94643E+05	12.312
1300.0	87.355	-1.30361E+05	131.36	-3.01126E+05	12.099
1350.0	88.570	-1.25963E+05	134.68	-3.07777E+05	11.908
1400.0	89.806	-1.21504E+05	137.92	-3.14592E+05	11.737
1450.0	91.064	-1.16982E+05	141.09	-3.21568E+05	11.584
1500.0	92.342	-1.12397E+05	144.20	-3.28700E+05	11.446
1550.0	93.641	-1.07747E+05	147.25	-3.35987E+05	11.322
1600.0	94.962	-1.03032E+05	150.25	-3.43425E+05	11.211
1650.0	96.303	-98251.	153.19	-3.51011E+05	11.112
1700.0	97.666	-93402.	156.08	-3.58743E+05	11.023
1750.0	99.050	-88484.	158.93	-3.66618E+05	10.943
1800.0	100.46	-83496.	161.74	-3.74635E+05	10.871
1850.0	101.88	-78438.	164.52	-3.82792E+05	10.808
1900.0	103.33	-73308.	167.25	-3.91086E+05	10.751
1950.0	104.80	-68105.	169.95	-3.99517E+05	10.702
2000.0	106.29	-62828.	172.63	-4.08081E+05	10.658
2050.0	107.80	-57476.	175.27	-4.16779E+05	10.619
2100.0	109.33	-52047.	177.89	-4.25608E+05	10.586
2150.0	110.89	-46542.	180.48	-4.34567E+05	10.558
2200.0	112.46	-40958.	183.04	-4.43655E+05	10.533
2250.0	114.06	-35295.	185.59	-4.52871E+05	10.513
2300.0	115.68	-29552.	188.11	-4.62214E+05	10.497
2350.0	117.32	-23727.	190.62	-4.71682E+05	10.484
2400.0	118.98	-17820.	193.11	-4.81275E+05	10.474
2450.0	120.66	-11829.	195.58	-4.90992E+05	10.468
2500.0	122.36	-5753.8	198.03	-5.00833E+05	10.464

W

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	24.160	0.00000E+00	32.618	-9724.9	1.7037
300.00	24.179	44.713	32.767	-9785.4	1.7037
350.00	24.605	1264.8	36.528	-11520.	1.7192
400.00	24.936	2503.7	39.836	-13431.	1.7538
450.00	25.210	3757.5	42.789	-15498.	1.7989
500.00	25.449	5024.1	45.458	-17705.	1.8496
550.00	25.666	6302.0	47.894	-20040.	1.9031
600.00	25.867	7590.4	50.136	-22491.	1.9580
650.00	26.058	8888.6	52.214	-25050.	2.0130
700.00	26.240	10196.	54.152	-27710.	2.0677
750.00	26.417	11513.	55.968	-30464.	2.1216
800.00	26.593	12838.	57.679	-33305.	2.1745
850.00	26.765	14172.	59.296	-36230.	2.2264
900.00	26.936	15514.	60.831	-39233.	2.2770
950.00	27.107	16865.	62.292	-42312.	2.3264
1000.0	27.280	18225.	63.686	-45461.	2.3746
1050.0	27.455	19593.	65.022	-48679.	2.4216
1100.0	27.634	20971.	66.303	-51963.	2.4674
1150.0	27.816	22357.	67.535	-55309.	2.5121
1200.0	28.002	23752.	68.723	-58715.	2.5558
1250.0	28.193	25157.	69.870	-62180.	2.5983
1300.0	28.388	26572.	70.979	-65702.	2.6399
1350.0	28.588	27996.	72.055	-69278.	2.6805
1400.0	28.797	29431.	73.098	-72907.	2.7201
1450.0	29.012	30876.	74.112	-76587.	2.7589
1500.0	29.233	32332.	75.100	-80318.	2.7968
1550.0	29.462	33799.	76.062	-84097.	2.8340
1600.0	29.700	35278.	77.001	-87923.	2.8703
1650.0	29.947	36769.	77.919	-91796.	2.9060
1700.0	30.203	38273.	78.816	-95715.	2.9409
1750.0	30.470	39790.	79.696	-99678.	2.9751
1800.0	30.748	41320.	80.558	-1.03684E+05	3.0088
1850.0	31.036	42865.	81.404	-1.07733E+05	3.0418
1900.0	31.336	44424.	82.236	-1.11824E+05	3.0742
1950.0	31.648	45999.	83.054	-1.15957E+05	3.1061
2000.0	31.971	47589.	83.859	-1.20130E+05	3.1374
2050.0	32.308	49196.	84.653	-1.24342E+05	3.1682
2100.0	32.659	50820.	85.436	-1.28595E+05	3.1985
2150.0	33.023	52462.	86.208	-1.32886E+05	3.2284
2200.0	33.401	54123.	86.972	-1.37215E+05	3.2578
2250.0	33.793	55802.	87.727	-1.41583E+05	3.2868
2300.0	34.201	57502.	88.474	-1.45988E+05	3.3154
2350.0	34.624	59223.	89.214	-1.50430E+05	3.3436
2400.0	35.065	60965.	89.948	-1.54909E+05	3.3714
2450.0	35.522	62730.	90.675	-1.59425E+05	3.3989
2500.0	35.997	64517.	91.398	-1.63977E+05	3.4260
2550.0	36.489	66329.	92.115	-1.68564E+05	3.4528
2600.0	37.000	68167.	92.829	-1.73188E+05	3.4793
2650.0	37.530	70030.	93.539	-1.77847E+05	3.5055
2700.0	38.079	71920.	94.245	-1.82542E+05	3.5314
2750.0	38.647	73838.	94.949	-1.87272E+05	3.5570
2800.0	39.234	75785.	95.651	-1.92037E+05	3.5824
2850.0	39.844	77762.	96.350	-1.96837E+05	3.6075
2900.0	40.474	79770.	97.049	-2.01672E+05	3.6324
2950.0	41.125	81810.	97.746	-2.06542E+05	3.6571
3000.0	41.798	83883.	98.443	-2.11446E+05	3.6815

W<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	21.308	8.51246E+05	173.96	7.99381E+05	-140.04
300.00	21.322	8.51285E+05	174.09	7.99059E+05	-139.13
350.00	22.012	8.52366E+05	177.42	7.90270E+05	-117.94
400.00	23.163	8.53494E+05	180.43	7.81323E+05	-102.03
450.00	24.633	8.54688E+05	183.24	7.72231E+05	-89.636
500.00	26.344	8.55962E+05	185.92	7.63001E+05	-79.708
550.00	28.275	8.57326E+05	188.52	7.53640E+05	-71.573
600.00	30.350	8.58791E+05	191.07	7.44150E+05	-64.782
650.00	32.418	8.60361E+05	193.58	7.34534E+05	-59.026
700.00	34.380	8.62031E+05	196.06	7.24793E+05	-54.083
750.00	36.166	8.63796E+05	198.49	7.14929E+05	-49.791
800.00	37.731	8.65644E+05	200.87	7.04944E+05	-46.027
850.00	39.041	8.67565E+05	203.20	6.94842E+05	-42.699
900.00	40.070	8.69544E+05	205.47	6.84625E+05	-39.734
950.00	40.838	8.71568E+05	207.65	6.74297E+05	-37.074
1000.0	41.275	8.73622E+05	209.76	6.63861E+05	-34.676
1050.0	41.450	8.75691E+05	211.78	6.53322E+05	-32.500
1100.0	41.420	8.77764E+05	213.71	6.42685E+05	-30.518
1150.0	41.228	8.79830E+05	215.55	6.31953E+05	-28.703
1200.0	40.910	8.81884E+05	217.29	6.21132E+05	-27.036
1250.0	40.492	8.83920E+05	218.96	6.10225E+05	-25.499
1300.0	39.999	8.85932E+05	220.53	5.99237E+05	-24.077
1350.0	39.448	8.87919E+05	222.03	5.88173E+05	-22.757
1400.0	38.855	8.89876E+05	223.46	5.77035E+05	-21.529
1450.0	38.209	8.91803E+05	224.81	5.65828E+05	-20.383
1500.0	37.577	8.93698E+05	226.09	5.54555E+05	-19.311
1550.0	36.961	8.95561E+05	227.32	5.43220E+05	-18.306
1600.0	36.365	8.97394E+05	228.48	5.31825E+05	-17.362
1650.0	35.789	8.99198E+05	229.59	5.20373E+05	-16.473
1700.0	35.235	9.00973E+05	230.65	5.08866E+05	-15.635
1750.0	34.705	9.02722E+05	231.66	4.97308E+05	-14.843
1800.0	34.200	9.04444E+05	232.64	4.85701E+05	-14.094
1850.0	33.720	9.06142E+05	233.57	4.74045E+05	-13.384
1900.0	33.267	9.07817E+05	234.46	4.62345E+05	-12.710
1950.0	32.841	9.09469E+05	235.32	4.50600E+05	-12.070
2000.0	32.443	9.11101E+05	236.14	4.38814E+05	-11.460
2050.0	32.073	9.12714E+05	236.94	4.26986E+05	-10.879
2100.0	31.732	9.14309E+05	237.71	4.15120E+05	-10.325
2150.0	31.420	9.15888E+05	238.45	4.03216E+05	-9.7960
2200.0	31.139	9.17452E+05	239.17	3.91275E+05	-9.2898
2250.0	30.887	9.19002E+05	239.87	3.79299E+05	-8.8054
2300.0	30.666	9.20541E+05	240.54	3.67289E+05	-8.3412
2350.0	30.475	9.22069E+05	241.20	3.55245E+05	-7.8960
2400.0	30.315	9.23589E+05	241.84	3.43169E+05	-7.4687
2450.0	30.187	9.25101E+05	242.47	3.31061E+05	-7.0581
2500.0	30.090	9.26608E+05	243.07	3.18923E+05	-6.6634
2550.0	30.025	9.28111E+05	243.67	3.06754E+05	-6.2834
2600.0	29.992	9.29611E+05	244.25	2.94556E+05	-5.9175
2650.0	29.951	9.31109E+05	244.82	2.82329E+05	-5.5649
2700.0	29.943	9.32607E+05	245.38	2.70074E+05	-5.2248
2750.0	29.963	9.34104E+05	245.93	2.57791E+05	-4.8965
2800.0	30.011	9.35603E+05	246.47	2.45481E+05	-4.5794
2850.0	30.084	9.37106E+05	247.00	2.33144E+05	-4.2729
2900.0	30.181	9.38612E+05	247.53	2.20780E+05	-3.9766
2950.0	30.301	9.40124E+05	248.05	2.08391E+05	-3.6898
3000.0	30.441	9.41643E+05	248.56	1.95976E+05	-3.4122

WCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	35.269	5.53000E+05	266.02	4.73687E+05	-82.986
300.00	35.299	5.53065E+05	266.24	4.73194E+05	-82.388
350.00	35.909	5.54847E+05	271.73	4.59742E+05	-68.611
400.00	36.269	5.56652E+05	276.55	4.46033E+05	-58.244
450.00	36.502	5.58472E+05	280.83	4.32096E+05	-50.155
500.00	36.674	5.60301E+05	284.69	4.17957E+05	-43.663
550.00	36.821	5.62139E+05	288.19	4.03633E+05	-38.333
600.00	36.967	5.63983E+05	291.40	3.89142E+05	-33.877
650.00	37.124	5.65836E+05	294.37	3.74497E+05	-30.094
700.00	37.302	5.67696E+05	297.12	3.59709E+05	-26.841
750.00	37.508	5.69566E+05	299.71	3.44788E+05	-24.013
800.00	37.745	5.71447E+05	302.13	3.29741E+05	-21.529
850.00	38.017	5.73341E+05	304.43	3.14576E+05	-19.331
900.00	38.325	5.75250E+05	306.61	2.99300E+05	-17.370
950.00	38.643	5.77173E+05	308.69	2.83917E+05	-15.610
1000.0	39.065	5.79116E+05	310.68	2.68432E+05	-14.021
1050.0	39.564	5.81081E+05	312.60	2.52850E+05	-12.578
1100.0	40.122	5.83073E+05	314.45	2.37173E+05	-11.262
1150.0	40.721	5.85094E+05	316.25	2.21405E+05	-10.056
1200.0	41.351	5.87146E+05	318.00	2.05549E+05	-8.9471
1250.0	41.999	5.89230E+05	319.70	1.89606E+05	-7.9230
1300.0	42.658	5.91346E+05	321.36	1.73580E+05	-6.9743
1350.0	43.322	5.93495E+05	322.98	1.57471E+05	-6.0928
1400.0	43.985	5.95678E+05	324.57	1.41282E+05	-5.2712
1450.0	44.642	5.97894E+05	326.12	1.25015E+05	-4.5034
1500.0	45.289	6.00142E+05	327.65	1.08670E+05	-3.7841
1550.0	45.923	6.02423E+05	329.14	92251.	-3.1087
1600.0	46.542	6.04734E+05	330.61	75757.	-2.4731
1650.0	47.143	6.07076E+05	332.05	59190.	-1.8737
1700.0	47.723	6.09448E+05	333.47	42552.	-1.3074
1750.0	48.305	6.11849E+05	334.86	25843.	-0.77137
1800.0	48.825	6.14278E+05	336.23	9066.1	-0.26309
1850.0	49.292	6.16731E+05	337.57	-7779.0	0.21963
1900.0	49.709	6.19206E+05	338.89	-24691.	0.67878
1950.0	50.082	6.21701E+05	340.19	-41668.	1.1161
2000.0	50.415	6.24213E+05	341.46	-58709.	1.5333
2050.0	50.711	6.26742E+05	342.71	-75814.	1.9317
2100.0	50.973	6.29284E+05	343.94	-92980.	2.3127
2150.0	51.205	6.31839E+05	345.14	-1.10207E+05	2.6774
2200.0	51.408	6.34404E+05	346.32	-1.27493E+05	3.0270
2250.0	51.586	6.36979E+05	347.47	-1.44838E+05	3.3624
2300.0	51.740	6.39562E+05	348.61	-1.62240E+05	3.6845
2350.0	51.871	6.42153E+05	349.72	-1.79699E+05	3.9942
2400.0	51.982	6.44749E+05	350.82	-1.97212E+05	4.2921
2450.0	52.073	6.47350E+05	351.89	-2.14780E+05	4.5791
2500.0	52.147	6.49956E+05	352.94	-2.32401E+05	4.8556
2550.0	52.204	6.52565E+05	353.98	-2.50074E+05	5.1224
2600.0	52.245	6.55176E+05	354.99	-2.67798E+05	5.3800
2650.0	52.272	6.57789E+05	355.99	-2.85573E+05	5.6288
2700.0	52.285	6.60403E+05	356.96	-3.03397E+05	5.8694
2750.0	52.285	6.63017E+05	357.92	-3.21269E+05	6.1022
2800.0	52.272	6.65631E+05	358.86	-3.39188E+05	6.3275
2850.0	52.248	6.68244E+05	359.79	-3.57155E+05	6.5457
2900.0	52.213	6.70856E+05	360.70	-3.75167E+05	6.7573
2950.0	52.167	6.73465E+05	361.59	-3.93224E+05	6.9625
3000.0	52.111	6.76072E+05	362.47	-4.11326E+05	7.1616

WC12<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	58.065	-12552.	309.41	-1.04803E+05	18.361
300.00	58.114	-12445.	309.77	-1.05376E+05	18.347
350.00	59.145	-9511.1	318.81	-1.21096E+05	18.072
400.00	59.822	-6535.8	326.76	-1.37239E+05	17.921
450.00	60.294	-3532.3	333.83	-1.53757E+05	17.847
500.00	60.642	-508.49	340.20	-1.70611E+05	17.823
550.00	60.912	2530.6	346.00	-1.87768E+05	17.832
600.00	61.130	5581.9	351.31	-2.05202E+05	17.864
650.00	61.314	8643.1	356.21	-2.22892E+05	17.911
700.00	61.475	11713.	360.76	-2.40817E+05	17.970
750.00	61.621	14790.	365.00	-2.58962E+05	18.035
800.00	61.757	17875.	368.98	-2.77313E+05	18.106
850.00	61.886	20966.	372.73	-2.95857E+05	18.181
900.00	62.012	24063.	376.27	-3.14583E+05	18.257
950.00	62.137	27167.	379.63	-3.33481E+05	18.336
1000.0	62.262	30277.	382.82	-3.52543E+05	18.414
1050.0	62.396	33393.	385.86	-3.71761E+05	18.494
1100.0	62.564	36517.	388.77	-3.91127E+05	18.573
1150.0	62.760	39650.	391.55	-4.10636E+05	18.651
1200.0	62.978	42794.	394.23	-4.30280E+05	18.729
1250.0	63.216	45948.	396.80	-4.50057E+05	18.806
1300.0	63.470	49115.	399.29	-4.69959E+05	18.883
1350.0	63.737	52296.	401.69	-4.89984E+05	18.958
1400.0	64.015	55489.	404.01	-5.10127E+05	19.033
1450.0	64.301	58697.	406.26	-5.30384E+05	19.106
1500.0	64.596	61920.	408.45	-5.50752E+05	19.178
1550.0	64.896	65157.	410.57	-5.71228E+05	19.250
1600.0	65.202	68409.	412.64	-5.91808E+05	19.320
1650.0	65.512	71677.	414.65	-6.12491E+05	19.389
1700.0	65.826	74961.	416.61	-6.33272E+05	19.458
1750.0	66.142	78260.	418.52	-6.54150E+05	19.525
1800.0	66.461	81575.	420.39	-6.75123E+05	19.591
1850.0	66.781	84906.	422.21	-6.96189E+05	19.656
1900.0	67.102	88253.	424.00	-7.17344E+05	19.721
1950.0	67.425	91616.	425.75	-7.38588E+05	19.784
2000.0	67.747	94995.	427.46	-7.59918E+05	19.847
2050.0	68.065	98391.	429.13	-7.81333E+05	19.908
2100.0	68.367	1.01802E+05	430.78	-8.02831E+05	19.969
2150.0	68.653	1.05227E+05	432.39	-8.24410E+05	20.029
2200.0	68.923	1.08667E+05	433.97	-8.46069E+05	20.088
2250.0	69.180	1.12119E+05	435.52	-8.67807E+05	20.146
2300.0	69.422	1.15584E+05	437.05	-8.89621E+05	20.203
2350.0	69.650	1.19061E+05	438.54	-9.11511E+05	20.260
2400.0	69.866	1.22549E+05	440.01	-9.33475E+05	20.316
2450.0	70.068	1.26048E+05	441.45	-9.55511E+05	20.371
2500.0	70.258	1.29556E+05	442.87	-9.77620E+05	20.426
2550.0	70.436	1.33073E+05	444.26	-9.99798E+05	20.480
2600.0	70.602	1.36599E+05	445.63	-1.02205E+06	20.533
2650.0	70.756	1.40133E+05	446.98	-1.04436E+06	20.585
2700.0	70.899	1.43675E+05	448.30	-1.06674E+06	20.637
2750.0	71.030	1.47223E+05	449.60	-1.08919E+06	20.688
2800.0	71.150	1.50777E+05	450.89	-1.11170E+06	20.739
2850.0	71.259	1.54338E+05	452.15	-1.13428E+06	20.788
2900.0	71.357	1.57903E+05	453.39	-1.15692E+06	20.838
2950.0	71.445	1.61473E+05	454.61	-1.17962E+06	20.887
3000.0	71.522	1.65047E+05	455.81	-1.20238E+06	20.935

WBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	36.446	5.86000E+05	277.26	5.03335E+05	-88.180
300.00	36.465	5.86067E+05	277.49	5.02822E+05	-87.547
350.00	36.831	5.87901E+05	283.14	4.88803E+05	-72.948
400.00	37.018	5.89748E+05	288.07	4.74520E+05	-61.964
450.00	37.123	5.91601E+05	292.44	4.60005E+05	-53.395
500.00	37.196	5.93459E+05	296.35	4.45284E+05	-46.517
550.00	37.268	5.95321E+05	299.90	4.30376E+05	-40.873
600.00	37.354	5.97186E+05	303.15	4.15299E+05	-36.154
650.00	37.466	5.99057E+05	306.14	4.00066E+05	-32.149
700.00	37.612	6.00934E+05	308.92	3.84689E+05	-28.705
750.00	37.796	6.02819E+05	311.52	3.69177E+05	-25.711
800.00	38.022	6.04714E+05	313.97	3.53539E+05	-23.083
850.00	38.291	6.06622E+05	316.28	3.37782E+05	-20.757
900.00	38.606	6.08544E+05	318.48	3.21913E+05	-18.683
950.00	38.969	6.10483E+05	320.58	3.05936E+05	-16.821
1000.0	39.379	6.12441E+05	322.58	2.89857E+05	-15.140
1050.0	39.839	6.14422E+05	324.52	2.73679E+05	-13.614
1100.0	40.348	6.16426E+05	326.38	2.57406E+05	-12.223
1150.0	40.906	6.18457E+05	328.19	2.41042E+05	-10.948
1200.0	41.517	6.20518E+05	329.94	2.24588E+05	-9.7758
1250.0	42.167	6.22610E+05	331.65	2.08048E+05	-8.6936
1300.0	42.836	6.24735E+05	333.32	1.91424E+05	-7.6913
1350.0	43.513	6.26893E+05	334.95	1.74717E+05	-6.7601
1400.0	44.192	6.29086E+05	336.54	1.57930E+05	-5.8923
1450.0	44.866	6.31312E+05	338.10	1.41064E+05	-5.0815
1500.0	45.529	6.33572E+05	339.63	1.24120E+05	-4.3221
1550.0	46.176	6.35865E+05	341.14	1.07101E+05	-3.6092
1600.0	46.805	6.38190E+05	342.61	90007.	-2.9384
1650.0	47.410	6.40545E+05	344.06	72840.	-2.3059
1700.0	47.990	6.42930E+05	345.49	55601.	-1.7084
1750.0	48.543	6.45344E+05	346.89	38292.	-1.1429
1800.0	49.065	6.47784E+05	348.26	20913.	-0.60686
1850.0	49.555	6.50250E+05	349.61	3465.9	-9.7E-02
1900.0	50.012	6.52739E+05	350.94	-14048.	0.38620
1950.0	50.435	6.55250E+05	352.25	-31628.	0.84719
2000.0	50.821	6.57782E+05	353.53	-49272.	1.2868
2050.0	51.170	6.60332E+05	354.79	-66980.	1.7066
2100.0	51.481	6.62898E+05	356.02	-84750.	2.1080
2150.0	51.754	6.65479E+05	357.24	-1.02582E+05	2.4922
2200.0	51.987	6.68073E+05	358.43	-1.20474E+05	2.8603
2250.0	52.188	6.70678E+05	359.60	-1.38425E+05	3.2135
2300.0	52.362	6.73291E+05	360.75	-1.56434E+05	3.5526
2350.0	52.511	6.75913E+05	361.88	-1.74499E+05	3.8786
2400.0	52.637	6.78542E+05	362.98	-1.92621E+05	4.1922
2450.0	52.744	6.81177E+05	364.07	-2.10798E+05	4.4941
2500.0	52.833	6.83816E+05	365.14	-2.29028E+05	4.7852
2550.0	52.905	6.86460E+05	366.18	-2.47311E+05	5.0658
2600.0	52.962	6.89106E+05	367.21	-2.65646E+05	5.3368
2650.0	53.007	6.91756E+05	368.22	-2.84032E+05	5.5985
2700.0	53.039	6.94407E+05	369.21	-3.02468E+05	5.8514
2750.0	53.061	6.97059E+05	370.19	-3.20953E+05	6.0962
2800.0	53.073	6.99713E+05	371.14	-3.39486E+05	6.3330
2850.0	53.077	7.02367E+05	372.08	-3.58067E+05	6.5625
2900.0	53.073	7.05020E+05	373.00	-3.76694E+05	6.7848
2950.0	53.062	7.07674E+05	373.91	-3.95367E+05	7.0005
3000.0	53.045	7.10326E+05	374.80	-4.14085E+05	7.2097

WBr5<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	127.22	-1.99158E+05	461.40	-3.36726E+05	58.992
300.00	127.29	-1.98923E+05	462.19	-3.37580E+05	58.776
350.00	128.78	-1.92519E+05	481.93	-3.61195E+05	53.904
400.00	129.74	-1.86054E+05	499.20	-3.85732E+05	50.370
450.00	130.41	-1.79549E+05	514.52	-4.11083E+05	47.716
500.00	130.88	-1.73016E+05	528.28	-4.37158E+05	45.668
550.00	131.23	-1.66463E+05	540.78	-4.63890E+05	44.055
600.00	131.50	-1.59894E+05	552.21	-4.91218E+05	42.763
650.00	131.72	-1.53314E+05	562.74	-5.19096E+05	41.714
700.00	131.89	-1.46723E+05	572.51	-5.47480E+05	40.852
750.00	132.03	-1.40125E+05	581.61	-5.76335E+05	40.139
800.00	132.16	-1.33520E+05	590.14	-6.05632E+05	39.543
850.00	132.26	-1.26910E+05	598.15	-6.35341E+05	39.042
900.00	132.36	-1.20294E+05	605.72	-6.65439E+05	38.620
950.00	132.44	-1.13674E+05	612.88	-6.95906E+05	38.263
1000.0	132.52	-1.07050E+05	619.67	-7.26721E+05	37.959
1050.0	132.60	-1.00422E+05	626.14	-7.57867E+05	37.701
1100.0	132.67	-93790.	632.31	-7.89330E+05	37.481
1150.0	132.74	-87155.	638.21	-8.21094E+05	37.294
1200.0	132.81	-80516.	643.86	-8.53146E+05	37.136
1250.0	132.87	-73875.	649.28	-8.85476E+05	37.001
1300.0	132.94	-67229.	654.49	-9.18071E+05	36.888
1350.0	133.00	-60581.	659.51	-9.50922E+05	36.792
1400.0	133.07	-53929.	664.35	-9.84019E+05	36.713
1450.0	133.14	-47273.	669.02	-1.01735E+06	36.648
1500.0	133.22	-40614.	673.54	-1.05092E+06	36.595
1550.0	133.31	-33951.	677.91	-1.08471E+06	36.553
1600.0	133.41	-27283.	682.14	-1.11871E+06	36.521
1650.0	133.51	-20610.	686.25	-1.15292E+06	36.497
1700.0	133.61	-13932.	690.23	-1.18733E+06	36.481
1750.0	133.72	-7249.0	694.11	-1.22194E+06	36.472
1800.0	133.83	-560.38	697.88	-1.25674E+06	36.469
1850.0	133.94	6133.8	701.55	-1.29172E+06	36.471
1900.0	134.05	12834.	705.12	-1.32689E+06	36.478
1950.0	134.17	19539.	708.60	-1.36224E+06	36.489
2000.0	134.28	26251.	712.00	-1.39775E+06	36.505
2050.0	134.40	32968.	715.32	-1.43343E+06	36.523
2100.0	134.52	39691.	718.56	-1.46928E+06	36.545
2150.0	134.63	46420.	721.72	-1.50529E+06	36.570
2200.0	134.75	53154.	724.82	-1.54145E+06	36.598
2250.0	134.87	59895.	727.85	-1.57777E+06	36.628
2300.0	134.98	66641.	730.82	-1.61424E+06	36.660
2350.0	135.09	73392.	733.72	-1.65085E+06	36.693
2400.0	135.21	80150.	736.57	-1.68761E+06	36.729
2450.0	135.32	86913.	739.35	-1.72451E+06	36.766
2500.0	135.43	93682.	742.09	-1.76154E+06	36.804
2550.0	135.54	1.00456E+05	744.77	-1.79871E+06	36.844
2600.0	135.64	1.07235E+05	747.41	-1.83602E+06	36.885
2650.0	135.75	1.14020E+05	749.99	-1.87345E+06	36.927
2700.0	135.85	1.20810E+05	752.53	-1.91102E+06	36.970
2750.0	135.95	1.27605E+05	755.02	-1.94871E+06	37.014
2800.0	136.05	1.34405E+05	757.47	-1.98652E+06	37.058
2850.0	136.15	1.41210E+05	759.88	-2.02445E+06	37.103
2900.0	136.25	1.48020E+05	762.25	-2.06251E+06	37.149
2950.0	136.34	1.54835E+05	764.58	-2.10068E+06	37.195
3000.0	136.43	1.61654E+05	766.87	-2.13896E+06	37.242

WBr6<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	151.38	-2.43090E+05	482.69	-3.87005E+05	67.800
300.00	151.45	-2.42810E+05	483.63	-3.87899E+05	67.537
350.00	153.15	-2.35192E+05	507.11	-4.12681E+05	61.588
400.00	154.26	-2.27505E+05	527.64	-4.38561E+05	57.269
450.00	155.01	-2.19772E+05	545.86	-4.65407E+05	54.022
500.00	155.56	-2.12007E+05	562.22	-4.93116E+05	51.514
550.00	155.97	-2.04218E+05	577.06	-5.21604E+05	49.537
600.00	156.27	-1.96412E+05	590.65	-5.50801E+05	47.950
650.00	156.52	-1.88592E+05	603.17	-5.80651E+05	46.660
700.00	156.71	-1.80761E+05	614.77	-6.11103E+05	45.600
750.00	156.87	-1.72922E+05	625.59	-6.42115E+05	44.720
800.00	157.00	-1.65075E+05	635.72	-6.73650E+05	43.984
850.00	157.11	-1.57222E+05	645.24	-7.05677E+05	43.365
900.00	157.20	-1.49364E+05	654.22	-7.38165E+05	42.841
950.00	157.28	-1.41503E+05	662.72	-7.71091E+05	42.396
1000.0	157.34	-1.33637E+05	670.79	-8.04431E+05	42.018
1050.0	157.40	-1.25768E+05	678.47	-8.38164E+05	41.695
1100.0	157.45	-1.17897E+05	685.80	-8.72272E+05	41.420
1150.0	157.50	-1.10023E+05	692.80	-9.06738E+05	41.184
1200.0	157.54	-1.02147E+05	699.50	-9.41547E+05	40.983
1250.0	157.57	-94269.	705.93	-9.76683E+05	40.812
1300.0	157.60	-86390.	712.11	-1.01214E+06	40.667
1350.0	157.63	-78509.	718.06	-1.04789E+06	40.544
1400.0	157.66	-70627.	723.79	-1.08394E+06	40.441
1450.0	157.68	-62743.	729.33	-1.12027E+06	40.355
1500.0	157.70	-54859.	734.67	-1.15687E+06	40.285
1550.0	157.72	-46973.	739.84	-1.19373E+06	40.227
1600.0	157.74	-39087.	744.85	-1.23085E+06	40.182
1650.0	157.75	-31200.	749.71	-1.26821E+06	40.147
1700.0	157.77	-23312.	754.42	-1.30582E+06	40.122
1750.0	157.78	-15423.	758.99	-1.34365E+06	40.105
1800.0	157.79	-7533.8	763.43	-1.38171E+06	40.095
1850.0	157.80	355.95	767.76	-1.41999E+06	40.092
1900.0	157.81	8246.2	771.97	-1.45849E+06	40.096
1950.0	157.82	16137.	776.06	-1.49719E+06	40.104
2000.0	157.83	24028.	780.06	-1.53609E+06	40.118
2050.0	157.83	31920.	783.96	-1.57519E+06	40.135
2100.0	157.84	39811.	787.76	-1.61449E+06	40.157
2150.0	157.84	47703.	791.48	-1.65397E+06	40.182
2200.0	157.85	55596.	795.10	-1.69363E+06	40.211
2250.0	157.85	63488.	798.65	-1.73348E+06	40.242
2300.0	157.86	71381.	802.12	-1.77350E+06	40.276
2350.0	157.86	79274.	805.52	-1.81369E+06	40.313
2400.0	157.86	87167.	808.84	-1.85405E+06	40.351
2450.0	157.87	95060.	812.09	-1.89457E+06	40.392
2500.0	157.87	1.02954E+05	815.28	-1.93526E+06	40.434
2550.0	157.88	1.10847E+05	818.41	-1.97610E+06	40.478
2600.0	157.88	1.18741E+05	821.48	-2.01710E+06	40.523
2650.0	157.88	1.26635E+05	824.48	-2.05824E+06	40.569
2700.0	157.89	1.34530E+05	827.43	-2.09954E+06	40.617
2750.0	157.89	1.42424E+05	830.33	-2.14099E+06	40.666
2800.0	157.89	1.50319E+05	833.18	-2.18258E+06	40.715
2850.0	157.90	1.58213E+05	835.97	-2.22430E+06	40.766
2900.0	157.90	1.66108E+05	838.72	-2.26617E+06	40.817
2950.0	157.90	1.74003E+05	841.42	-2.30817E+06	40.869
3000.0	157.90	1.81898E+05	844.07	-2.35031E+06	40.922

W(CO)₆

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	242.69	-9.51860E+05	332.21	-1.05091E+06	184.11
300.00	243.17	-9.51411E+05	333.71	-1.05152E+06	183.08
350.00	256.27	-9.38924E+05	372.18	-1.06919E+06	159.56
400.00	269.37	-9.25784E+05	407.26	-1.08869E+06	142.16
450.00	282.46	-9.11988E+05	439.74	-1.10987E+06	128.83

W2B

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	66.690	-67100.	76.000	-89759.	15.725
300.00	66.776	-66977.	76.413	-89900.	15.653
350.00	68.695	-63587.	86.859	-93988.	14.027
400.00	70.094	-60116.	96.128	-98567.	12.871
450.00	71.190	-56582.	104.45	-1.03585E+05	12.023
500.00	72.099	-53000.	112.00	-1.08999E+05	11.387
550.00	72.884	-49375.	118.91	-1.14774E+05	10.900
600.00	73.586	-45713.	125.28	-1.20881E+05	10.523
650.00	74.229	-42017.	131.20	-1.27294E+05	10.229
700.00	74.829	-38290.	136.72	-1.33994E+05	9.9985
750.00	75.398	-34535.	141.90	-1.40961E+05	9.8171
800.00	75.942	-30751.	146.78	-1.48179E+05	9.6748
850.00	76.468	-26941.	151.40	-1.55635E+05	9.5639
900.00	76.979	-23105.	155.79	-1.63315E+05	9.4783
950.00	77.479	-19243.	159.97	-1.71210E+05	9.4135
1000.0	77.970	-15357.	163.95	-1.79309E+05	9.3659
1050.0	78.453	-11446.	167.77	-1.87602E+05	9.3325
1100.0	78.929	-7511.6	171.43	-1.96083E+05	9.3110
1150.0	79.401	-3553.4	174.95	-2.04743E+05	9.2995
1200.0	79.868	428.38	178.34	-2.13576E+05	9.2965
1250.0	80.332	4433.4	181.61	-2.22575E+05	9.3006
1300.0	80.792	8461.5	184.77	-2.31734E+05	9.3110
1350.0	81.250	12513.	187.82	-2.41049E+05	9.3265
1400.0	81.705	16586.	190.79	-2.50515E+05	9.3466
1450.0	82.159	20683.	193.66	-2.60127E+05	9.3705
1500.0	82.611	24802.	196.45	-2.69880E+05	9.3978
1550.0	83.061	28944.	199.17	-2.79771E+05	9.4280
1600.0	83.510	33108.	201.82	-2.89796E+05	9.4606
1650.0	83.958	37295.	204.39	-2.99951E+05	9.4954
1700.0	84.405	41504.	206.90	-3.10234E+05	9.5321
1750.0	84.851	45736.	209.36	-3.20641E+05	9.5704
1800.0	85.296	49989.	211.75	-3.31169E+05	9.6100
1850.0	85.740	54265.	214.10	-3.41815E+05	9.6509
1900.0	86.184	58563.	216.39	-3.52578E+05	9.6928
1950.0	86.627	62884.	218.63	-3.63453E+05	9.7356
2000.0	87.070	67226.	220.83	-3.74440E+05	9.7791
2050.0	87.512	71591.	222.99	-3.85536E+05	9.8233
2100.0	87.954	75977.	225.10	-3.96739E+05	9.8681
2150.0	88.396	80386.	227.18	-4.08046E+05	9.9133
2200.0	88.837	84817.	229.21	-4.19456E+05	9.9589
2250.0	89.277	89270.	231.22	-4.30967E+05	10.005
2300.0	89.718	93744.	233.18	-4.42577E+05	10.051
2350.0	90.158	98241.	235.12	-4.54284E+05	10.097
2400.0	90.598	1.02760E+05	237.02	-4.66088E+05	10.144
2450.0	91.037	1.07301E+05	238.89	-4.77986E+05	10.191
2500.0	91.477	1.11864E+05	240.74	-4.89977E+05	10.237
2550.0	91.916	1.16449E+05	242.55	-5.02059E+05	10.284
2600.0	92.355	1.21056E+05	244.34	-5.14231E+05	10.331
2650.0	92.794	1.25684E+05	246.10	-5.26493E+05	10.378
2700.0	93.233	1.30335E+05	247.84	-5.38842E+05	10.424
2750.0	93.672	1.35008E+05	249.56	-5.51277E+05	10.471
2800.0	94.110	1.39702E+05	251.25	-5.63797E+05	10.517
2850.0	94.549	1.44419E+05	252.92	-5.76401E+05	10.564
2900.0	94.987	1.49157E+05	254.57	-5.89088E+05	10.610
2950.0	95.425	1.53917E+05	256.19	-6.01858E+05	10.657
3000.0	95.863	1.58700E+05	257.80	-6.14708E+05	10.703

WB

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	41.420	-66100.	41.100	-78354.	13.727
300.00	41.526	-66023.	41.357	-78430.	13.656
350.00	43.838	-63885.	47.944	-80665.	12.038
400.00	45.431	-61651.	53.907	-83214.	10.866
450.00	46.605	-59349.	59.329	-86047.	9.9878
500.00	47.520	-56995.	64.289	-89139.	9.3121
550.00	48.265	-54600.	68.854	-92469.	8.7818
600.00	48.895	-52170.	73.081	-96019.	8.3590
650.00	49.443	-49712.	77.017	-99773.	8.0176
700.00	49.932	-47227.	80.699	-1.03717E+05	7.7392
750.00	50.377	-44719.	84.160	-1.07839E+05	7.5104
800.00	50.789	-42190.	87.424	-1.12129E+05	7.3211
850.00	51.176	-39641.	90.515	-1.16578E+05	7.1639
900.00	51.542	-37073.	93.450	-1.21178E+05	7.0328
950.00	51.892	-34487.	96.247	-1.25921E+05	6.9235
1000.0	52.230	-31884.	98.917	-1.30801E+05	6.8322
1050.0	52.557	-29264.	101.47	-1.35811E+05	6.7561
1100.0	52.875	-26628.	103.93	-1.40946E+05	6.6928
1150.0	53.187	-23977.	106.28	-1.46202E+05	6.6405
1200.0	53.492	-21310.	108.55	-1.51573E+05	6.5976
1250.0	53.792	-18628.	110.74	-1.57056E+05	6.5628
1300.0	54.088	-15931.	112.86	-1.62646E+05	6.5350
1350.0	54.380	-13219.	114.90	-1.68341E+05	6.5133
1400.0	54.669	-10493.	116.89	-1.74136E+05	6.4969
1450.0	54.956	-7752.0	118.81	-1.80028E+05	6.4852
1500.0	55.240	-4997.1	120.68	-1.86016E+05	6.4775
1550.0	55.522	-2228.0	122.50	-1.92095E+05	6.4734
1600.0	55.802	555.10	124.26	-1.98265E+05	6.4725
1650.0	56.081	3352.2	125.98	-2.04521E+05	6.4744
1700.0	56.358	6163.2	127.66	-2.10862E+05	6.4788
1750.0	56.634	8988.0	129.30	-2.17286E+05	6.4855
1800.0	56.909	11827.	130.90	-2.23792E+05	6.4941
1850.0	57.183	14679.	132.46	-2.30376E+05	6.5045
1900.0	57.456	17545.	133.99	-2.37037E+05	6.5164
1950.0	57.728	20424.	135.49	-2.43774E+05	6.5298
2000.0	57.999	23318.	136.95	-2.50585E+05	6.5445
2050.0	58.270	26224.	138.39	-2.57469E+05	6.5602
2100.0	58.540	29145.	139.79	-2.64424E+05	6.5770
2150.0	58.810	32078.	141.17	-2.71448E+05	6.5947
2200.0	59.079	35025.	142.53	-2.78541E+05	6.6132
2250.0	59.348	37986.	143.86	-2.85700E+05	6.6325
2300.0	59.616	40960.	145.17	-2.92926E+05	6.6524
2350.0	59.884	43948.	146.45	-3.00217E+05	6.6729
2400.0	60.151	46949.	147.72	-3.07571E+05	6.6939
2450.0	60.419	49963.	148.96	-3.14988E+05	6.7155
2500.0	60.686	52990.	150.18	-3.22467E+05	6.7374
2550.0	60.952	56031.	151.39	-3.30006E+05	6.7597
2600.0	61.219	59086.	152.57	-3.37605E+05	6.7824
2650.0	60.000	62115.	153.73	-3.45263E+05	6.8054
2700.0	60.000	65115.	154.85	-3.52978E+05	6.8286
2750.0	60.000	68115.	155.95	-3.60748E+05	6.8520
2800.0	60.000	71115.	157.03	-3.68572E+05	6.8756
2850.0	60.000	74115.	158.09	-3.76450E+05	6.8994
2900.0	60.000	77115.	159.14	-3.84381E+05	6.9233
2950.0	60.000	80115.	160.16	-3.92364E+05	6.9473
3000.0	60.000	83115.	161.17	-4.00397E+05	6.9714

Y

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.331	0.00000E+00	44.788	-13354.	2.3394
300.00	26.347	48.727	44.951	-13437.	2.3395
350.00	26.763	1376.7	49.044	-15789.	2.3563
400.00	27.136	2724.3	52.643	-18333.	2.3940
450.00	27.489	4090.0	55.859	-21047.	2.4430
500.00	27.834	5473.1	58.774	-23914.	2.4982
550.00	28.179	6873.4	61.443	-26920.	2.5566
600.00	28.527	8291.0	63.909	-30055.	2.6164
650.00	28.881	9726.2	66.207	-33308.	2.6766
700.00	29.244	11179.	68.360	-36673.	2.7365
750.00	29.615	12651.	70.390	-40142.	2.7957
800.00	29.997	14141.	72.314	-43710.	2.8539
850.00	30.389	15651.	74.144	-47372.	2.9110
900.00	30.791	17180.	75.892	-51123.	2.9670
950.00	31.206	18730.	77.568	-54960.	3.0218
1000.0	31.632	20301.	79.180	-58879.	3.0754
1050.0	32.065	21893.	80.733	-62877.	3.1279
1100.0	32.500	23507.	82.235	-66951.	3.1792
1150.0	32.938	25143.	83.689	-71100.	3.2294
1200.0	33.378	26801.	85.101	-75320.	3.2785
1250.0	33.821	28481.	86.472	-79609.	3.3266
1300.0	34.266	30183.	87.807	-83966.	3.3737
1350.0	34.714	31908.	89.109	-88389.	3.4199
1400.0	35.164	33655.	90.379	-92877.	3.4652
1450.0	35.617	35424.	91.621	-97427.	3.5096
1500.0	36.072	37216.	92.836	-1.02038E+05	3.5532
1550.0	36.530	39031.	94.027	-1.06710E+05	3.5960
1600.0	36.990	40869.	95.194	-1.11440E+05	3.6381
1650.0	37.452	42730.	96.339	-1.16229E+05	3.6794
1700.0	37.917	44615.	97.464	-1.21074E+05	3.7201
1750.0	38.385	46522.	98.570	-1.25975E+05	3.7601
1751.1	38.396	46566.	98.595	-1.26088E+05	3.7610
1751.2	34.813	51453.	101.39	-1.26088E+05	3.7610
1795.1	35.146	52992.	102.25	-1.30568E+05	3.7991
1795.2	43.095	64386.	108.60	-1.30568E+05	3.7991
1800.0	43.095	64595.	108.72	-1.31095E+05	3.8042
1850.0	43.095	66750.	109.90	-1.36561E+05	3.8557
1900.0	43.095	68904.	111.05	-1.42085E+05	3.9061
1950.0	43.095	71059.	112.17	-1.47665E+05	3.9554
2000.0	43.095	73214.	113.26	-1.53301E+05	4.0037
2050.0	43.095	75369.	114.32	-1.58990E+05	4.0510
2100.0	43.095	77523.	115.36	-1.64733E+05	4.0974
2150.0	43.095	79678.	116.37	-1.70526E+05	4.1429
2200.0	43.095	81833.	117.36	-1.76370E+05	4.1874
2250.0	43.095	83988.	118.33	-1.82262E+05	4.2312
2300.0	43.095	86142.	119.28	-1.88202E+05	4.2741
2350.0	43.095	88297.	120.21	-1.94190E+05	4.3162
2400.0	43.095	90452.	121.11	-2.00223E+05	4.3576
2450.0	43.095	92607.	122.00	-2.06301E+05	4.3983
2500.0	43.095	94761.	122.87	-2.12423E+05	4.4382
2550.0	43.095	96916.	123.73	-2.18588E+05	4.4775
2600.0	43.095	99071.	124.56	-2.24795E+05	4.5161
2650.0	43.095	1.01226E+05	125.38	-2.31044E+05	4.5540
2700.0	43.095	1.03380E+05	126.19	-2.37334E+05	4.5914
2750.0	43.095	1.05535E+05	126.98	-2.43663E+05	4.6281
2800.0	43.095	1.07690E+05	127.76	-2.50031E+05	4.6643
2850.0	43.095	1.09845E+05	128.52	-2.56438E+05	4.6999
2900.0	43.095	1.12000E+05	129.27	-2.62883E+05	4.7349
2950.0	43.095	1.14154E+05	130.01	-2.69365E+05	4.7694
3000.0	43.095	1.16309E+05	130.73	-2.75884E+05	4.8034

Y<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.866	4.23800E+05	179.47	3.70290E+05	-64.872
300.00	25.861	4.23848E+05	179.63	3.69958E+05	-64.414
350.00	25.629	4.25136E+05	183.60	3.60874E+05	-53.856
400.00	25.260	4.26409E+05	187.00	3.51607E+05	-45.914
450.00	24.839	4.27661E+05	189.95	3.42181E+05	-39.718
500.00	24.410	4.28892E+05	192.55	3.32617E+05	-34.747
550.00	23.997	4.30102E+05	194.86	3.22931E+05	-30.669
600.00	23.617	4.31293E+05	196.93	3.13136E+05	-27.260
650.00	23.278	4.32465E+05	198.80	3.03242E+05	-24.368
700.00	22.988	4.33621E+05	200.52	2.93258E+05	-21.883
750.00	22.766	4.34765E+05	202.10	2.83192E+05	-19.723
800.00	22.569	4.35898E+05	203.56	2.73050E+05	-17.828
850.00	22.393	4.37022E+05	204.92	2.62838E+05	-16.152
900.00	22.236	4.38138E+05	206.20	2.52559E+05	-14.658
950.00	22.095	4.39246E+05	207.40	2.42219E+05	-13.318
1000.0	21.970	4.40348E+05	208.53	2.31821E+05	-12.109
1050.0	21.859	4.41443E+05	209.60	2.21367E+05	-11.012
1100.0	21.761	4.42534E+05	210.61	2.10862E+05	-10.013
1150.0	21.676	4.43620E+05	211.58	2.00307E+05	-9.0980
1200.0	21.603	4.44702E+05	212.50	1.89705E+05	-8.2574
1250.0	21.542	4.45780E+05	213.38	1.79058E+05	-7.4822
1300.0	21.493	4.46856E+05	214.22	1.68368E+05	-6.7649
1350.0	21.455	4.47930E+05	215.03	1.57637E+05	-6.0992
1400.0	21.427	4.49002E+05	215.81	1.46865E+05	-5.4795
1450.0	21.410	4.50072E+05	216.56	1.36056E+05	-4.9011
1500.0	21.404	4.51143E+05	217.29	1.25209E+05	-4.3601
1550.0	21.409	4.52213E+05	217.99	1.14327E+05	-3.8527
1600.0	21.423	4.53284E+05	218.67	1.03411E+05	-3.3759
1650.0	21.448	4.54356E+05	219.33	92461.	-2.9270
1700.0	21.483	4.55429E+05	219.97	81478.	-2.5035
1750.0	21.528	4.56504E+05	220.59	70464.	-2.1032
1800.0	21.583	4.57582E+05	221.20	59419.	-1.7242
1850.0	21.649	4.58663E+05	221.79	48344.	-1.3650
1900.0	21.724	4.59747E+05	222.37	37240.	-1.0238
1950.0	21.808	4.60835E+05	222.94	26107.	-0.69931
2000.0	21.903	4.61928E+05	223.49	14946.	-0.39034
2050.0	22.012	4.63026E+05	224.03	3757.9	-9.5E-02
2100.0	22.143	4.64129E+05	224.56	-7457.0	0.18548
2150.0	22.297	4.65240E+05	225.09	-18698.	0.45427
2200.0	22.472	4.66359E+05	225.60	-29966.	0.71146
2250.0	22.666	4.67488E+05	226.11	-41259.	0.95781
2300.0	22.880	4.68626E+05	226.61	-52577.	1.1940
2350.0	23.112	4.69776E+05	227.10	-63919.	1.4207
2400.0	23.362	4.70938E+05	227.59	-75287.	1.6385
2450.0	23.630	4.72113E+05	228.08	-86679.	1.8480
2500.0	23.913	4.73301E+05	228.56	-98095.	2.0495
2550.0	24.213	4.74504E+05	229.03	-1.09534E+05	2.2437
2600.0	24.529	4.75723E+05	229.51	-1.20998E+05	2.4308
2650.0	24.859	4.76957E+05	229.98	-1.32485E+05	2.6114
2700.0	25.205	4.78209E+05	230.45	-1.43996E+05	2.7857
2750.0	25.565	4.79478E+05	230.91	-1.55530E+05	2.9541
2800.0	25.939	4.80766E+05	231.38	-1.67087E+05	3.1170
2850.0	26.327	4.82072E+05	231.84	-1.78667E+05	3.2745
2900.0	26.729	4.83399E+05	232.30	-1.90271E+05	3.4271
2950.0	27.144	4.84745E+05	232.76	-2.01897E+05	3.5748
3000.0	27.573	4.86113E+05	233.22	-2.13547E+05	3.7181

Yb

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.581	0.00000E+00	59.831	-17839.	3.1252
300.00	26.600	49.193	59.995	-17949.	3.1252
350.00	27.100	1391.6	64.133	-21055.	3.1422
400.00	27.614	2759.3	67.785	-24355.	3.1803
450.00	28.676	4162.4	71.089	-27828.	3.2301
500.00	31.003	5648.1	74.218	-31461.	3.2866
550.00	35.001	7290.7	77.346	-35249.	3.3476
600.00	29.732	8843.2	80.051	-39187.	3.4115
650.00	29.580	10324.	82.421	-43250.	3.4755
700.00	29.850	11808.	84.621	-47426.	3.5389
750.00	30.177	13308.	86.691	-51710.	3.6013
800.00	30.582	14827.	88.651	-56094.	3.6625
850.00	31.001	16367.	90.518	-60573.	3.7223
900.00	31.390	17927.	92.301	-65144.	3.7808
950.00	31.715	19505.	94.007	-69802.	3.8379
1000.0	31.952	21097.	95.640	-74544.	3.8937
1033.0	32.049	22153.	96.680	-77717.	3.9297
1033.0	36.108	23902.	98.373	-77717.	3.9297
1050.0	36.108	24516.	98.962	-79394.	3.9496
1097.0	36.108	26213.	100.54	-84083.	4.0036
1097.0	36.777	33869.	107.52	-84083.	4.0036
1100.0	36.777	33980.	107.62	-84406.	4.0080
1150.0	36.777	35819.	109.26	-89828.	4.0800
1200.0	36.777	37658.	110.82	-95330.	4.1495
1250.0	36.777	39496.	112.32	-1.00909E+05	4.2167
1300.0	36.777	41335.	113.77	-1.06562E+05	4.2816
1350.0	36.777	43174.	115.15	-1.12285E+05	4.3445
1400.0	36.777	45013.	116.49	-1.18076E+05	4.4054
1450.0	36.777	46852.	117.78	-1.23934E+05	4.4645
1500.0	36.777	48691.	119.03	-1.29854E+05	4.5218

Yb<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.779	1.52486E+05	173.13	1.00868E+05	-17.671
300.00	20.780	1.52524E+05	173.26	1.00548E+05	-17.506
350.00	20.794	1.53564E+05	176.46	91803.	-13.700
400.00	20.800	1.54604E+05	179.24	82909.	-10.827
450.00	20.802	1.55644E+05	181.69	73885.	-8.5761
500.00	20.801	1.56684E+05	183.88	64744.	-6.7636
550.00	20.799	1.57724E+05	185.86	55500.	-5.2708
600.00	20.797	1.58764E+05	187.67	46161.	-4.0186
650.00	20.794	1.59804E+05	189.34	36736.	-2.9520
700.00	20.790	1.60843E+05	190.88	27230.	-2.0319
750.00	20.787	1.61883E+05	192.31	17650.	-1.2292
800.00	20.784	1.62922E+05	193.65	8000.2	-0.52235
850.00	20.781	1.63961E+05	194.91	-1714.2	0.10534
900.00	20.779	1.65000E+05	196.10	-11490.	0.66683
950.00	20.776	1.66039E+05	197.22	-21323.	1.1724
1000.0	20.775	1.67078E+05	198.29	-31211.	1.6303
1050.0	20.773	1.68116E+05	199.30	-41151.	2.0471
1100.0	20.772	1.69155E+05	200.27	-51141.	2.4284
1150.0	20.771	1.70194E+05	201.19	-61177.	2.7787
1200.0	20.771	1.71232E+05	202.08	-71259.	3.1017
1250.0	20.771	1.72271E+05	202.92	-81384.	3.4008
1300.0	20.772	1.73309E+05	203.74	-91551.	3.6785
1350.0	20.773	1.74348E+05	204.52	-1.01758E+05	3.9371
1400.0	20.775	1.75387E+05	205.28	-1.12003E+05	4.1788
1450.0	20.777	1.76425E+05	206.01	-1.22285E+05	4.4051
1500.0	20.780	1.77464E+05	206.71	-1.32603E+05	4.6175
1550.0	20.783	1.78503E+05	207.39	-1.42956E+05	4.8175
1600.0	20.787	1.79543E+05	208.05	-1.53342E+05	5.0060
1650.0	20.791	1.80582E+05	208.69	-1.63761E+05	5.1841
1700.0	20.796	1.81622E+05	209.31	-1.74211E+05	5.3527
1750.0	20.801	1.82662E+05	209.92	-1.84692E+05	5.5126
1800.0	20.806	1.83702E+05	210.50	-1.95202E+05	5.6645
1850.0	20.813	1.84742E+05	211.07	-2.05742E+05	5.8090
1900.0	20.819	1.85783E+05	211.63	-2.16309E+05	5.9466
1950.0	20.826	1.86824E+05	212.17	-2.26904E+05	6.0779
2000.0	20.834	1.87866E+05	212.70	-2.37526E+05	6.2034
2050.0	20.842	1.88908E+05	213.21	-2.48174E+05	6.3234
2100.0	20.851	1.89950E+05	213.71	-2.58847E+05	6.4383
2150.0	20.860	1.90993E+05	214.20	-2.69545E+05	6.5485
2200.0	20.870	1.92036E+05	214.68	-2.80267E+05	6.6542
2250.0	20.880	1.93080E+05	215.15	-2.91013E+05	6.7558
2300.0	20.891	1.94124E+05	215.61	-3.01782E+05	6.8535
2350.0	20.932	1.95170E+05	216.06	-3.12574E+05	6.9476
2400.0	20.970	1.96217E+05	216.50	-3.23388E+05	7.0382
2450.0	21.007	1.97267E+05	216.93	-3.34224E+05	7.1256
2500.0	21.046	1.98318E+05	217.36	-3.45081E+05	7.2099
2550.0	21.089	1.99371E+05	217.78	-3.55960E+05	7.2914
2600.0	21.139	2.00427E+05	218.19	-3.66859E+05	7.3701
2650.0	21.196	2.01485E+05	218.59	-3.77778E+05	7.4463
2700.0	21.264	2.02547E+05	218.99	-3.88718E+05	7.5200
2750.0	21.343	2.03612E+05	219.38	-3.99677E+05	7.5914
2800.0	21.434	2.04681E+05	219.76	-4.10655E+05	7.6607
2850.0	21.540	2.05756E+05	220.14	-4.21653E+05	7.7278
2900.0	21.661	2.06835E+05	220.52	-4.32670E+05	7.7930
2950.0	21.799	2.07922E+05	220.89	-4.43705E+05	7.8563
3000.0	21.954	2.09016E+05	221.26	-4.54759E+05	7.9179

YbCl2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	82.937	-7.99562E+05	130.54	-8.38483E+05	146.90
300.00	82.969	-7.99409E+05	131.05	-8.38725E+05	146.03
350.00	83.826	-7.95239E+05	143.91	-8.45607E+05	126.20
400.00	84.684	-7.91026E+05	155.16	-8.53089E+05	111.40
450.00	85.542	-7.86771E+05	165.18	-8.61102E+05	99.952
500.00	86.400	-7.82472E+05	174.24	-8.69591E+05	90.843
550.00	87.257	-7.78131E+05	182.51	-8.78513E+05	83.432
600.00	88.115	-7.73746E+05	190.14	-8.87832E+05	77.291
650.00	88.973	-7.69319E+05	197.23	-8.97518E+05	72.124
700.00	89.830	-7.64849E+05	203.85	-9.07547E+05	67.720
750.00	90.688	-7.60336E+05	210.08	-9.17897E+05	63.926
800.00	91.546	-7.55780E+05	215.96	-9.28550E+05	60.627
850.00	92.404	-7.51182E+05	221.54	-9.39488E+05	57.732
900.00	93.261	-7.46540E+05	226.84	-9.50699E+05	55.176
950.00	94.119	-7.41855E+05	231.91	-9.62169E+05	52.902
1000.0	94.977	-7.37128E+05	236.76	-9.73886E+05	50.869

Zn

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.397	0.00000E+00	41.631	-12412.	2.1745
300.00	25.412	46.998	41.788	-12489.	2.1746
350.00	25.829	1327.9	45.736	-14680.	2.1908
400.00	26.285	2630.6	49.215	-17055.	2.2271
450.00	26.779	3957.0	52.339	-19595.	2.2745
500.00	27.311	5309.1	55.187	-22285.	2.3280
550.00	27.880	6688.7	57.817	-25110.	2.3847
600.00	28.488	8097.8	60.268	-28063.	2.4431
650.00	29.134	9538.2	62.574	-31135.	2.5020
692.68	29.715	10794.	64.445	-33846.	2.5522
692.68	31.380	18116.	75.015	-33846.	2.5522
700.00	31.380	18346.	75.345	-34396.	2.5666
750.00	31.380	19915.	77.510	-38218.	2.6617
800.00	31.380	21484.	79.536	-42145.	2.7517
850.00	31.380	23053.	81.438	-46170.	2.8372
900.00	31.380	24622.	83.232	-50287.	2.9185
950.00	31.380	26191.	84.928	-54491.	2.9961
1000.0	31.380	27760.	86.538	-58778.	3.0702
1050.0	31.380	29329.	88.069	-63144.	3.1411
1100.0	31.380	30898.	89.529	-67584.	3.2092
1150.0	31.380	32467.	90.923	-72095.	3.2746
1200.0	31.380	34036.	92.259	-76675.	3.3375
1250.0	31.380	35605.	93.540	-81320.	3.3981
1300.0	31.380	37174.	94.771	-86028.	3.4566
1350.0	31.380	38743.	95.955	-90797.	3.5130
1400.0	31.380	40312.	97.096	-95623.	3.5677
1450.0	31.380	41881.	98.197	-1.00506E+05	3.6205
1500.0	31.380	43450.	99.261	-1.05442E+05	3.6717

Zn<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	20.785	1.30400E+05	160.99	82401.	-14.436
300.00	20.786	1.30438E+05	161.12	82103.	-14.295
350.00	20.800	1.31478E+05	164.32	73965.	-11.038
400.00	20.807	1.32518E+05	167.10	65678.	-8.5765
450.00	20.811	1.33559E+05	169.55	57261.	-6.6465
500.00	20.812	1.34599E+05	171.74	48728.	-5.0904
550.00	20.812	1.35640E+05	173.73	40090.	-3.8073
600.00	20.811	1.36681E+05	175.54	31358.	-2.7299
650.00	20.809	1.37721E+05	177.20	22539.	-1.8112
700.00	20.807	1.38761E+05	178.75	13639.	-1.0178
750.00	20.804	1.39802E+05	180.18	4665.8	-0.32495
800.00	20.802	1.40842E+05	181.52	-4377.2	0.28579
850.00	20.799	1.41882E+05	182.78	-13485.	0.82868
900.00	20.796	1.42922E+05	183.97	-22654.	1.3148
950.00	20.793	1.43962E+05	185.10	-31881.	1.7529
1000.0	20.791	1.45001E+05	186.16	-41163.	2.1501
1050.0	20.788	1.46041E+05	187.18	-50497.	2.5120
1100.0	20.786	1.47080E+05	188.15	-59880.	2.8434
1150.0	20.783	1.48119E+05	189.07	-69311.	3.1481
1200.0	20.781	1.49158E+05	189.95	-78787.	3.4294
1250.0	20.779	1.50197E+05	190.80	-88306.	3.6900
1300.0	20.777	1.51236E+05	191.62	-97866.	3.9322
1350.0	20.775	1.52275E+05	192.40	-1.07467E+05	4.1580
1400.0	20.773	1.53314E+05	193.16	-1.17106E+05	4.3692
1450.0	20.771	1.54352E+05	193.89	-1.26782E+05	4.5671
1500.0	20.770	1.55391E+05	194.59	-1.36494E+05	4.7530
1550.0	20.769	1.56429E+05	195.27	-1.46241E+05	4.9282
1600.0	20.767	1.57468E+05	195.93	-1.56021E+05	5.0934
1650.0	20.766	1.58506E+05	196.57	-1.65834E+05	5.2497
1700.0	20.765	1.59544E+05	197.19	-1.75678E+05	5.3978
1750.0	20.765	1.60583E+05	197.79	-1.85552E+05	5.5383
1800.0	20.764	1.61621E+05	198.38	-1.95456E+05	5.6719
1850.0	20.764	1.62659E+05	198.95	-2.05390E+05	5.7990
1900.0	20.763	1.63697E+05	199.50	-2.15351E+05	5.9203
1950.0	20.763	1.64735E+05	200.04	-2.25339E+05	6.0360
2000.0	20.763	1.65773E+05	200.56	-2.35354E+05	6.1467
2050.0	20.763	1.66812E+05	201.08	-2.45395E+05	6.2526
2100.0	20.764	1.67850E+05	201.58	-2.55462E+05	6.3541
2150.0	20.764	1.68888E+05	202.07	-2.65553E+05	6.4515
2200.0	20.765	1.69926E+05	202.54	-2.75668E+05	6.5450
2250.0	20.766	1.70964E+05	203.01	-2.85807E+05	6.6350
2300.0	20.767	1.72003E+05	203.47	-2.95969E+05	6.7215
2350.0	20.768	1.73041E+05	203.91	-3.06153E+05	6.8049
2400.0	20.769	1.74080E+05	204.35	-3.16360E+05	6.8852
2450.0	20.771	1.75118E+05	204.78	-3.26588E+05	6.9628
2500.0	20.773	1.76157E+05	205.20	-3.36838E+05	7.0377
2550.0	20.775	1.77195E+05	205.61	-3.47108E+05	7.1100
2600.0	20.777	1.78234E+05	206.01	-3.57398E+05	7.1800
2650.0	20.779	1.79273E+05	206.41	-3.67709E+05	7.2478
2700.0	20.781	1.80312E+05	206.80	-3.78039E+05	7.3134
2750.0	20.784	1.81351E+05	207.18	-3.88388E+05	7.3770
2800.0	20.786	1.82390E+05	207.55	-3.98757E+05	7.4387
2850.0	20.789	1.83430E+05	207.92	-4.09144E+05	7.4986
2900.0	20.792	1.84469E+05	208.28	-4.19549E+05	7.5567
2950.0	20.795	1.85509E+05	208.64	-4.29972E+05	7.6132
3000.0	20.799	1.86549E+05	208.99	-4.40412E+05	7.6681

ZnCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	56.955	-2.68091E+05	276.37	-3.50490E+05	61.403
300.00	57.016	-2.67986E+05	276.72	-3.51001E+05	61.113
350.00	58.317	-2.65100E+05	285.61	-3.65065E+05	54.482
400.00	59.172	-2.62161E+05	293.46	-3.79545E+05	49.562
450.00	59.767	-2.59187E+05	300.47	-3.94397E+05	45.779
500.00	60.201	-2.56187E+05	306.79	-4.09581E+05	42.788
550.00	60.529	-2.53169E+05	312.54	-4.25066E+05	40.368
600.00	60.784	-2.50135E+05	317.82	-4.40827E+05	38.376
650.00	60.987	-2.47091E+05	322.69	-4.56841E+05	36.711
700.00	61.153	-2.44037E+05	327.22	-4.73090E+05	35.302
750.00	61.291	-2.40976E+05	331.44	-4.89558E+05	34.095
800.00	61.408	-2.37909E+05	335.40	-5.06230E+05	33.053
850.00	61.507	-2.34836E+05	339.13	-5.23094E+05	32.145
900.00	61.593	-2.31758E+05	342.65	-5.40139E+05	31.348
950.00	61.669	-2.28676E+05	345.98	-5.57356E+05	30.645
1000.0	61.735	-2.25591E+05	349.14	-5.74734E+05	30.020
1050.0	61.793	-2.22503E+05	352.16	-5.92268E+05	29.463
1100.0	61.846	-2.19412E+05	355.03	-6.09948E+05	28.963
1150.0	61.892	-2.16319E+05	357.78	-6.27769E+05	28.513
1200.0	61.934	-2.13223E+05	360.42	-6.45724E+05	28.107
1250.0	61.972	-2.10125E+05	362.95	-6.63809E+05	27.738
1300.0	62.006	-2.07026E+05	365.38	-6.82017E+05	27.403
1350.0	62.037	-2.03925E+05	367.72	-7.00345E+05	27.097
1400.0	62.065	-2.00822E+05	369.98	-7.18788E+05	26.818
1450.0	62.090	-1.97718E+05	372.15	-7.37341E+05	26.561
1500.0	62.113	-1.94613E+05	374.26	-7.56002E+05	26.326
1550.0	62.133	-1.91507E+05	376.30	-7.74766E+05	26.109
1600.0	62.151	-1.88400E+05	378.27	-7.93630E+05	25.909
1650.0	62.167	-1.85292E+05	380.18	-8.12592E+05	25.724
1700.0	62.182	-1.82183E+05	382.04	-8.31648E+05	25.553
1750.0	62.194	-1.79074E+05	383.84	-8.50795E+05	25.394
1800.0	62.205	-1.75964E+05	385.59	-8.70031E+05	25.247
1850.0	62.214	-1.72853E+05	387.30	-8.89353E+05	25.110
1900.0	62.221	-1.69743E+05	388.96	-9.08760E+05	24.983
1950.0	62.227	-1.66631E+05	390.57	-9.28248E+05	24.864
2000.0	62.231	-1.63520E+05	392.15	-9.47816E+05	24.754
2050.0	62.234	-1.60408E+05	393.68	-9.67462E+05	24.651
2100.0	62.236	-1.57296E+05	395.18	-9.87184E+05	24.554
2150.0	62.236	-1.54185E+05	396.65	-1.00698E+06	24.464
2200.0	62.235	-1.51073E+05	398.08	-1.02685E+06	24.380
2250.0	62.241	-1.47961E+05	399.48	-1.04679E+06	24.301
2300.0	62.246	-1.44849E+05	400.85	-1.06680E+06	24.227
2350.0	62.250	-1.41736E+05	402.19	-1.08687E+06	24.158
2400.0	62.255	-1.38624E+05	403.50	-1.10701E+06	24.093
2450.0	62.259	-1.35511E+05	404.78	-1.12722E+06	24.032
2500.0	62.263	-1.32398E+05	406.04	-1.14749E+06	23.975
2550.0	62.267	-1.29285E+05	407.27	-1.16782E+06	23.921
2600.0	62.270	-1.26171E+05	408.48	-1.18822E+06	23.871
2650.0	62.273	-1.23058E+05	409.67	-1.20867E+06	23.824
2700.0	62.276	-1.19944E+05	410.83	-1.22918E+06	23.779
2750.0	62.279	-1.16830E+05	411.97	-1.24975E+06	23.738
2800.0	62.282	-1.13716E+05	413.09	-1.27038E+06	23.699
2850.0	62.285	-1.10602E+05	414.20	-1.29106E+06	23.662
2900.0	62.287	-1.07488E+05	415.28	-1.31180E+06	23.627
2950.0	62.290	-1.04373E+05	416.35	-1.33259E+06	23.595
3000.0	62.292	-1.01259E+05	417.39	-1.35343E+06	23.565

ZnBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	59.102	-1.84726E+05	300.80	-2.74410E+05	48.074
300.00	59.141	-1.84617E+05	301.17	-2.74967E+05	47.875
350.00	59.973	-1.81637E+05	310.35	-2.90260E+05	43.318
400.00	60.514	-1.78624E+05	318.40	-3.05983E+05	39.956
450.00	60.886	-1.75589E+05	325.55	-3.22085E+05	37.386
500.00	61.152	-1.72537E+05	331.98	-3.38526E+05	35.365
550.00	61.350	-1.69474E+05	337.81	-3.55273E+05	33.740
600.00	61.501	-1.66403E+05	343.16	-3.72299E+05	32.411
650.00	61.618	-1.63325E+05	348.09	-3.89582E+05	31.306
700.00	61.712	-1.60242E+05	352.66	-4.07102E+05	30.378
750.00	61.788	-1.57154E+05	356.92	-4.24842E+05	29.588
800.00	61.851	-1.54063E+05	360.91	-4.42789E+05	28.910
850.00	61.903	-1.50969E+05	364.66	-4.60929E+05	28.325
900.00	61.947	-1.47873E+05	368.20	-4.79251E+05	27.814
950.00	61.985	-1.44775E+05	371.55	-4.97746E+05	27.367
1000.0	62.017	-1.41674E+05	374.73	-5.16403E+05	26.973
1050.0	62.045	-1.38573E+05	377.76	-5.35216E+05	26.625
1100.0	62.069	-1.35470E+05	380.64	-5.54176E+05	26.315
1150.0	62.091	-1.32366E+05	383.40	-5.73278E+05	26.038
1200.0	62.110	-1.29261E+05	386.04	-5.92515E+05	25.791
1250.0	62.127	-1.26155E+05	388.58	-6.11881E+05	25.568
1300.0	62.143	-1.23048E+05	391.02	-6.31371E+05	25.368
1350.0	62.156	-1.19941E+05	393.36	-6.50981E+05	25.187
1400.0	62.169	-1.16833E+05	395.62	-6.70706E+05	25.024
1450.0	62.180	-1.13724E+05	397.81	-6.90542E+05	24.875
1500.0	62.191	-1.10615E+05	399.91	-7.10485E+05	24.741
1550.0	62.200	-1.07505E+05	401.95	-7.30532E+05	24.618
1600.0	62.209	-1.04395E+05	403.93	-7.50679E+05	24.507
1650.0	62.217	-1.01284E+05	405.84	-7.70924E+05	24.405
1700.0	62.225	-98173.	407.70	-7.91263E+05	24.312
1750.0	62.232	-95062.	409.50	-8.11693E+05	24.227
1800.0	62.238	-91950.	411.26	-8.32212E+05	24.150
1850.0	62.244	-88838.	412.96	-8.52818E+05	24.079
1900.0	62.250	-85725.	414.62	-8.73508E+05	24.014
1950.0	62.255	-82613.	416.24	-8.94279E+05	23.954
2000.0	62.260	-79500.	417.82	-9.15131E+05	23.900
2050.0	62.265	-76387.	419.35	-9.36060E+05	23.851
2100.0	62.269	-73273.	420.85	-9.57066E+05	23.805
2150.0	62.274	-70160.	422.32	-9.78145E+05	23.764
2200.0	62.278	-67046.	423.75	-9.99297E+05	23.726
2250.0	62.281	-63932.	425.15	-1.02052E+06	23.691
2300.0	62.285	-60818.	426.52	-1.04181E+06	23.660
2350.0	62.288	-57704.	427.86	-1.06317E+06	23.631
2400.0	62.292	-54589.	429.17	-1.08460E+06	23.605
2450.0	62.295	-51474.	430.45	-1.10609E+06	23.581
2500.0	62.298	-48360.	431.71	-1.12764E+06	23.560
2550.0	62.300	-45245.	432.95	-1.14926E+06	23.541
2600.0	62.303	-42130.	434.16	-1.17094E+06	23.524
2650.0	62.306	-39014.	435.34	-1.19267E+06	23.508
2700.0	62.308	-35899.	436.51	-1.21447E+06	23.495
2750.0	62.311	-32784.	437.65	-1.23632E+06	23.483
2800.0	62.313	-29668.	438.77	-1.25823E+06	23.472
2850.0	62.315	-26552.	439.88	-1.28020E+06	23.463
2900.0	62.317	-23436.	440.96	-1.30222E+06	23.455
2950.0	62.319	-20321.	442.03	-1.32430E+06	23.448
3000.0	62.321	-17205.	443.07	-1.34642E+06	23.443

ZnCO3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.077	-8.12742E+05	82.425	-8.37317E+05	146.69
300.00	80.333	-8.12594E+05	82.921	-8.37470E+05	145.81
350.00	87.236	-8.08404E+05	95.823	-8.41942E+05	125.65
400.00	94.140	-8.03870E+05	107.92	-8.47039E+05	110.61
450.00	101.04	-7.98990E+05	119.41	-8.52725E+05	98.979
500.00	107.95	-7.93766E+05	130.41	-8.58972E+05	89.734
550.00	114.85	-7.88196E+05	141.02	-8.65759E+05	82.221
600.00	121.75	-7.82281E+05	151.31	-8.73069E+05	76.005
650.00	128.66	-7.76020E+05	161.33	-8.80886E+05	70.787
700.00	135.56	-7.69415E+05	171.12	-8.89198E+05	66.351
750.00	142.47	-7.62464E+05	180.71	-8.97995E+05	62.540
800.00	149.37	-7.55168E+05	190.12	-9.07266E+05	59.237

Zr

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	25.986	0.00000E+00	39.181	-11682.	2.0465
300.00	26.012	48.098	39.342	-11754.	2.0466
350.00	26.656	1365.2	43.401	-13825.	2.0632
400.00	27.227	2712.5	46.998	-16087.	2.1007
450.00	27.757	4087.2	50.236	-18519.	2.1496
500.00	28.260	5487.7	53.187	-21106.	2.2048
550.00	28.746	6912.9	55.903	-23834.	2.2635
600.00	29.221	8362.2	58.425	-26693.	2.3238
650.00	29.688	9834.9	60.782	-29674.	2.3845
700.00	30.148	11331.	62.999	-32769.	2.4452
750.00	30.605	12850.	65.095	-35971.	2.5052
800.00	31.057	14391.	67.084	-39276.	2.5644
850.00	31.508	15955.	68.981	-42678.	2.6226
900.00	31.956	17542.	70.794	-46173.	2.6797
950.00	32.403	19151.	72.534	-49757.	2.7357
1000.0	32.848	20782.	74.208	-53425.	2.7906
1050.0	33.292	22436.	75.821	-57176.	2.8443
1100.0	33.736	24111.	77.380	-61007.	2.8969
1139.4	34.085	25449.	78.575	-64083.	2.9376
1139.5	27.772	29552.	82.176	-64083.	2.9376
1150.0	27.819	29846.	82.432	-64951.	2.9501
1200.0	28.052	31242.	83.621	-69103.	3.0079
1250.0	28.301	32651.	84.771	-73313.	3.0635
1300.0	28.567	34073.	85.886	-77579.	3.1171
1350.0	28.852	35508.	86.970	-81901.	3.1688
1400.0	29.155	36958.	88.024	-86276.	3.2189
1450.0	29.478	38424.	89.053	-90703.	3.2674
1500.0	29.821	39906.	90.058	-95181.	3.3144
1550.0	30.184	41406.	91.042	-99708.	3.3601
1600.0	30.569	42925.	92.006	-1.04284E+05	3.4045
1650.0	30.975	44464.	92.953	-1.08908E+05	3.4477
1700.0	31.404	46023.	93.884	-1.13579E+05	3.4898
1750.0	31.857	47604.	94.801	-1.18297E+05	3.5309
1800.0	32.334	49209.	95.705	-1.23059E+05	3.5710
1850.0	32.836	50838.	96.597	-1.27867E+05	3.6102
1900.0	33.363	52493.	97.480	-1.32719E+05	3.6486
1950.0	33.917	54175.	98.354	-1.37615E+05	3.6862
2000.0	34.498	55885.	99.220	-1.42554E+05	3.7230
2050.0	35.107	57625.	100.08	-1.47537E+05	3.7592
2100.0	35.744	59396.	100.93	-1.52562E+05	3.7947
2127.8	36.111	60397.	101.41	-1.55379E+05	3.8142
2127.9	42.144	81395.	111.27	-1.55380E+05	3.8142
2150.0	42.144	82328.	111.71	-1.57849E+05	3.8349
2200.0	42.144	84435.	112.68	-1.63459E+05	3.8809
2250.0	42.144	86543.	113.63	-1.69117E+05	3.9260
2300.0	42.144	88650.	114.55	-1.74821E+05	3.9702
2350.0	42.144	90757.	115.46	-1.80572E+05	4.0136
2400.0	42.144	92864.	116.35	-1.86367E+05	4.0561
2450.0	42.144	94971.	117.22	-1.92206E+05	4.0978
2500.0	42.144	97079.	118.07	-1.98088E+05	4.1387
2550.0	42.144	99186.	118.90	-2.04012E+05	4.1789
2600.0	42.144	1.01293E+05	119.72	-2.09978E+05	4.2184
2650.0	42.144	1.03400E+05	120.52	-2.15984E+05	4.2572
2700.0	42.144	1.05507E+05	121.31	-2.22030E+05	4.2953
2750.0	42.144	1.07615E+05	122.08	-2.28115E+05	4.3328
2800.0	42.144	1.09722E+05	122.84	-2.34238E+05	4.3697
2850.0	42.144	1.11829E+05	123.59	-2.40399E+05	4.4059
2900.0	42.144	1.13936E+05	124.32	-2.46597E+05	4.4416
2950.0	42.144	1.16043E+05	125.04	-2.52831E+05	4.4767
3000.0	42.144	1.18151E+05	125.75	-2.59101E+05	4.5112

Zr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	26.631	5.99293E+05	181.34	5.45226E+05	-95.519
300.00	26.674	5.99342E+05	181.51	5.44890E+05	-94.871
350.00	27.447	6.00698E+05	185.69	5.35708E+05	-79.948
400.00	27.711	6.02079E+05	189.37	5.26330E+05	-68.730
450.00	27.700	6.03465E+05	192.64	5.16778E+05	-59.985
500.00	27.537	6.04846E+05	195.55	5.07072E+05	-52.972
550.00	27.294	6.06217E+05	198.16	4.97228E+05	-47.222
600.00	27.011	6.07575E+05	200.52	4.87260E+05	-42.419
650.00	26.715	6.08918E+05	202.68	4.77179E+05	-38.346
700.00	26.424	6.10247E+05	204.64	4.66996E+05	-34.847
750.00	26.114	6.11560E+05	206.46	4.56718E+05	-31.808
800.00	25.894	6.12859E+05	208.13	4.46352E+05	-29.143
850.00	25.746	6.14150E+05	209.70	4.35906E+05	-26.787
900.00	25.660	6.15435E+05	211.17	4.25384E+05	-24.688
950.00	25.626	6.16717E+05	212.55	4.14791E+05	-22.806
1000.0	25.638	6.17998E+05	213.87	4.04130E+05	-21.109
1050.0	25.689	6.19281E+05	215.12	3.93405E+05	-19.570
1100.0	25.778	6.20568E+05	216.32	3.82619E+05	-18.169
1150.0	25.899	6.21860E+05	217.47	3.71774E+05	-16.886
1200.0	26.051	6.23158E+05	218.57	3.60873E+05	-15.708
1250.0	26.232	6.24465E+05	219.64	3.49917E+05	-14.622
1300.0	26.440	6.25782E+05	220.67	3.38909E+05	-13.617
1350.0	26.696	6.27111E+05	221.67	3.27851E+05	-12.685
1400.0	26.943	6.28452E+05	222.65	3.16742E+05	-11.818
1450.0	27.183	6.29805E+05	223.60	3.05586E+05	-11.008
1500.0	27.416	6.31170E+05	224.52	2.94383E+05	-10.251
1550.0	27.642	6.32546E+05	225.43	2.83134E+05	-9.5413
1600.0	27.863	6.33934E+05	226.31	2.71841E+05	-8.8745
1650.0	28.078	6.35332E+05	227.17	2.60504E+05	-8.2466
1700.0	28.288	6.36742E+05	228.01	2.49124E+05	-7.6545
1750.0	28.492	6.38161E+05	228.83	2.37703E+05	-7.0949
1800.0	28.691	6.39591E+05	229.64	2.26241E+05	-6.5652
1850.0	28.886	6.41030E+05	230.43	2.14739E+05	-6.0630
1900.0	29.076	6.42479E+05	231.20	2.03198E+05	-5.5862
1950.0	29.262	6.43938E+05	231.96	1.91619E+05	-5.1328
2000.0	29.443	6.45405E+05	232.70	1.80003E+05	-4.7011
2050.0	29.620	6.46882E+05	233.43	1.68350E+05	-4.2895
2100.0	29.793	6.48367E+05	234.15	1.56660E+05	-3.8966
2150.0	29.962	6.49861E+05	234.85	1.44935E+05	-3.5211
2200.0	30.127	6.51363E+05	235.54	1.33175E+05	-3.1619
2250.0	30.288	6.52874E+05	236.22	1.21381E+05	-2.8178
2300.0	30.445	6.54392E+05	236.89	1.09554E+05	-2.4880
2350.0	30.599	6.55918E+05	237.54	97693.	-2.1714
2400.0	30.748	6.57452E+05	238.19	85800.	-1.8673
2450.0	30.894	6.58993E+05	238.82	73874.	-1.5750
2500.0	31.036	6.60541E+05	239.45	61917.	-1.2937
2550.0	31.174	6.62097E+05	240.07	49929.	-1.0227
2600.0	31.309	6.63659E+05	240.67	37911.	-0.76162
2650.0	31.440	6.65227E+05	241.27	25862.	-0.50976
2700.0	31.568	6.66803E+05	241.86	13784.	-0.26666
2750.0	31.704	6.68384E+05	242.44	1676.6	-3.1E-02
2800.0	31.845	6.69973E+05	243.01	-10460.	0.19512
2850.0	31.990	6.71569E+05	243.58	-22624.	0.41465
2900.0	32.140	6.73172E+05	244.13	-34817.	0.62711
2950.0	32.293	6.74783E+05	244.69	-47038.	0.83286
3000.0	32.449	6.76402E+05	245.23	-59286.	1.0322

ZrCl<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	38.235	2.67727E+05	253.71	1.92083E+05	-33.651
300.00	38.233	2.67798E+05	253.95	1.91613E+05	-33.362
350.00	38.303	2.69710E+05	259.84	1.78765E+05	-26.679
400.00	38.529	2.71631E+05	264.97	1.65642E+05	-21.630
450.00	38.843	2.73565E+05	269.53	1.52277E+05	-17.675
500.00	39.209	2.75516E+05	273.64	1.38696E+05	-14.489
550.00	39.605	2.77486E+05	277.39	1.24919E+05	-11.864
600.00	40.021	2.79477E+05	280.86	1.10962E+05	-9.6599
650.00	40.447	2.81488E+05	284.08	96838.	-7.7818
700.00	40.878	2.83521E+05	287.09	82558.	-6.1604
750.00	41.312	2.85576E+05	289.93	68132.	-4.7450
800.00	41.745	2.87653E+05	292.61	53568.	-3.4975
850.00	42.176	2.89751E+05	295.15	38873.	-2.3888
900.00	42.604	2.91870E+05	297.57	24055.	-1.3961
950.00	43.027	2.94011E+05	299.89	9117.7	-0.50131
1000.0	43.445	2.96173E+05	302.11	-5932.5	0.30987
1050.0	43.883	2.98356E+05	304.24	-21091.	1.0492
1100.0	44.279	3.00560E+05	306.29	-36355.	1.7263
1150.0	44.641	3.02783E+05	308.26	-51719.	2.3491
1200.0	44.972	3.05024E+05	310.17	-67180.	2.9242
1250.0	45.276	3.07280E+05	312.01	-82735.	3.4572
1300.0	45.557	3.09551E+05	313.79	-98380.	3.9529
1350.0	45.816	3.11835E+05	315.52	-1.14113E+05	4.4152
1400.0	46.056	3.14132E+05	317.19	-1.29931E+05	4.8477
1450.0	46.279	3.16441E+05	318.81	-1.45831E+05	5.2533
1500.0	46.485	3.18760E+05	320.38	-1.61811E+05	5.6346
1550.0	46.676	3.21089E+05	321.91	-1.77868E+05	5.9940
1600.0	46.853	3.23427E+05	323.39	-1.94001E+05	6.3333
1650.0	47.016	3.25774E+05	324.84	-2.10207E+05	6.6544
1700.0	47.168	3.28129E+05	326.24	-2.26484E+05	6.9588
1750.0	47.307	3.30491E+05	327.61	-2.42831E+05	7.2479
1800.0	47.435	3.32859E+05	328.95	-2.59245E+05	7.5229
1850.0	47.552	3.35234E+05	330.25	-2.75725E+05	7.7849
1900.0	47.658	3.37614E+05	331.52	-2.92269E+05	8.0348
1950.0	47.754	3.40000E+05	332.76	-3.08876E+05	8.2736
2000.0	47.841	3.42389E+05	333.97	-3.25544E+05	8.5021
2050.0	47.917	3.44783E+05	335.15	-3.42272E+05	8.7210
2100.0	47.985	3.47181E+05	336.30	-3.59059E+05	8.9309
2150.0	48.043	3.49582E+05	337.43	-3.75902E+05	9.1324
2200.0	48.093	3.51985E+05	338.54	-3.92802E+05	9.3261
2250.0	48.133	3.54391E+05	339.62	-4.09756E+05	9.5124
2300.0	48.165	3.56798E+05	340.68	-4.26763E+05	9.6919
2350.0	48.189	3.59207E+05	341.72	-4.43823E+05	9.8648
2400.0	48.204	3.61617E+05	342.73	-4.60934E+05	10.032
2450.0	48.211	3.64028E+05	343.72	-4.78096E+05	10.193
2500.0	48.212	3.66438E+05	344.70	-4.95306E+05	10.349
2550.0	48.203	3.68849E+05	345.65	-5.12565E+05	10.499
2600.0	48.200	3.71259E+05	346.59	-5.29871E+05	10.645
2650.0	48.201	3.73669E+05	347.51	-5.47224E+05	10.786
2700.0	48.207	3.76079E+05	348.41	-5.64622E+05	10.923
2750.0	48.217	3.78489E+05	349.29	-5.82064E+05	11.056
2800.0	48.231	3.80900E+05	350.16	-5.99551E+05	11.184
2850.0	48.249	3.83312E+05	351.01	-6.17080E+05	11.310
2900.0	48.270	3.85725E+05	351.85	-6.34652E+05	11.431
2950.0	48.296	3.88140E+05	352.68	-6.52265E+05	11.549
3000.0	48.325	3.90555E+05	353.49	-6.69920E+05	11.664

ZrCl2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	74.000	-5.00000E+05	110.00	-5.32797E+05	93.341
300.00	74.037	-4.99863E+05	110.46	-5.33000E+05	92.801
350.00	75.033	-4.96136E+05	121.95	-5.38817E+05	80.412
400.00	76.029	-4.92360E+05	132.03	-5.45172E+05	71.190
450.00	77.026	-4.88533E+05	141.04	-5.52002E+05	64.073
500.00	78.022	-4.84657E+05	149.21	-5.59262E+05	58.424
550.00	79.018	-4.80731E+05	156.69	-5.66912E+05	53.839
600.00	80.015	-4.76755E+05	163.61	-5.74922E+05	50.050
650.00	81.011	-4.72730E+05	170.05	-5.83265E+05	46.871
700.00	82.007	-4.68654E+05	176.09	-5.91920E+05	44.169
750.00	83.004	-4.64529E+05	181.79	-6.00869E+05	41.847
800.00	84.000	-4.60354E+05	187.18	-6.10094E+05	39.834
850.00	84.996	-4.56129E+05	192.30	-6.19582E+05	38.074
900.00	85.992	-4.51854E+05	197.18	-6.29320E+05	36.524
950.00	86.988	-4.47530E+05	201.86	-6.39297E+05	35.150
995.00	87.885	-4.43595E+05	205.91	-6.48472E+05	34.042
995.00	100.00	-4.16595E+05	233.04	-6.48472E+05	34.042
1000.0	100.00	-4.16095E+05	233.54	-6.49639E+05	33.933
1050.0	100.00	-4.11095E+05	238.42	-6.61439E+05	32.904
1100.0	100.00	-4.06095E+05	243.07	-6.73477E+05	31.980
1150.0	100.00	-4.01095E+05	247.52	-6.85743E+05	31.147
1200.0	100.00	-3.96095E+05	251.78	-6.98226E+05	30.392
1250.0	100.00	-3.91095E+05	255.86	-7.10917E+05	29.707
1300.0	100.00	-3.86095E+05	259.78	-7.23809E+05	29.082
1350.0	100.00	-3.81095E+05	263.55	-7.36893E+05	28.511
1400.0	100.00	-3.76095E+05	267.19	-7.50162E+05	27.988
1450.0	100.00	-3.71095E+05	270.70	-7.63610E+05	27.507
1500.0	100.00	-3.66095E+05	274.09	-7.77230E+05	27.065
1550.0	100.00	-3.61095E+05	277.37	-7.91017E+05	26.656
1600.0	100.00	-3.56095E+05	280.54	-8.04965E+05	26.279
1650.0	100.00	-3.51095E+05	283.62	-8.19070E+05	25.929
1700.0	100.00	-3.46095E+05	286.61	-8.33326E+05	25.604
1750.0	100.00	-3.41095E+05	289.50	-8.47729E+05	25.303
1800.0	100.00	-3.36095E+05	292.32	-8.62275E+05	25.022
1850.0	100.00	-3.31095E+05	295.06	-8.76960E+05	24.760
1900.0	100.00	-3.26095E+05	297.73	-8.91780E+05	24.516
1950.0	100.00	-3.21095E+05	300.33	-9.06731E+05	24.288
2000.0	100.00	-3.16095E+05	302.86	-9.21811E+05	24.075

ZrCl2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	55.560	-1.18982E+05	310.58	-2.11581E+05	37.067
300.00	55.638	-1.18879E+05	310.92	-2.12156E+05	36.939
350.00	57.879	-1.16042E+05	319.67	-2.27925E+05	34.015
400.00	60.154	-1.13091E+05	327.54	-2.44109E+05	31.877
450.00	62.260	-1.10029E+05	334.75	-2.60669E+05	30.257
500.00	64.091	-1.06869E+05	341.41	-2.77575E+05	28.997
550.00	65.585	-1.03626E+05	347.59	-2.94802E+05	27.997
600.00	66.706	-1.00317E+05	353.35	-3.12327E+05	27.190
650.00	67.410	-96962.	358.72	-3.30130E+05	26.529
700.00	67.739	-93582.	363.73	-3.48193E+05	25.982
750.00	67.808	-90193.	368.41	-3.66498E+05	25.525
800.00	67.694	-86805.	372.78	-3.85029E+05	25.139
850.00	67.454	-83425.	376.88	-4.03771E+05	24.812
900.00	67.129	-80061.	380.72	-4.22712E+05	24.533
950.00	66.751	-76713.	384.34	-4.41840E+05	24.293
1000.0	66.341	-73386.	387.76	-4.61143E+05	24.087
1050.0	65.918	-70080.	390.98	-4.80612E+05	23.909
1100.0	65.495	-66794.	394.04	-5.00239E+05	23.754
1150.0	65.084	-63530.	396.94	-5.20014E+05	23.619
1200.0	64.693	-60286.	399.70	-5.39931E+05	23.502
1250.0	64.330	-57060.	402.34	-5.59982E+05	23.400
1300.0	63.999	-53852.	404.85	-5.80162E+05	23.311
1350.0	63.705	-50660.	407.26	-6.00466E+05	23.233
1400.0	63.456	-47481.	409.58	-6.20887E+05	23.165
1450.0	63.190	-44315.	411.80	-6.41422E+05	23.106
1500.0	62.956	-41161.	413.94	-6.62065E+05	23.055
1550.0	62.749	-38019.	416.00	-6.82814E+05	23.010
1600.0	62.566	-34886.	417.99	-7.03664E+05	22.972
1650.0	62.404	-31762.	419.91	-7.24612E+05	22.939
1700.0	62.260	-28645.	421.77	-7.45654E+05	22.911
1750.0	62.133	-25536.	423.57	-7.66788E+05	22.887
1800.0	62.021	-22432.	425.32	-7.88010E+05	22.867
1850.0	61.921	-19333.	427.02	-8.09319E+05	22.850
1900.0	61.833	-16239.	428.67	-8.30711E+05	22.837
1950.0	61.756	-13150.	430.27	-8.52185E+05	22.827
2000.0	61.687	-10064.	431.84	-8.73738E+05	22.819
2050.0	61.627	-6981.0	433.36	-8.95368E+05	22.814
2100.0	61.575	-3900.9	434.84	-9.17073E+05	22.810
2150.0	61.530	-823.34	436.29	-9.38852E+05	22.809
2200.0	61.490	2252.1	437.71	-9.60702E+05	22.809
2250.0	61.456	5325.8	439.09	-9.82622E+05	22.811
2300.0	61.428	8397.9	440.44	-1.00461E+06	22.815
2350.0	61.404	11469.	441.76	-1.02667E+06	22.820
2400.0	61.384	14538.	443.05	-1.04879E+06	22.826
2450.0	61.368	17607.	444.32	-1.07097E+06	22.833
2500.0	61.355	20675.	445.56	-1.09322E+06	22.841
2550.0	61.346	23743.	446.77	-1.11553E+06	22.850
2600.0	61.340	26810.	447.96	-1.13789E+06	22.860
2650.0	61.336	29877.	449.13	-1.16032E+06	22.871
2700.0	61.335	32943.	450.28	-1.18281E+06	22.882
2750.0	61.336	36010.	451.40	-1.20535E+06	22.894
2800.0	61.339	39077.	452.51	-1.22795E+06	22.907
2850.0	61.344	42144.	453.59	-1.25060E+06	22.920
2900.0	61.350	45211.	454.66	-1.27331E+06	22.934
2950.0	61.358	48279.	455.71	-1.29607E+06	22.948
3000.0	61.368	51347.	456.74	-1.31888E+06	22.963

ZrBr<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	39.572	3.48730E+05	265.20	2.69659E+05	-47.242
300.00	39.577	3.48803E+05	265.45	2.69168E+05	-46.865
350.00	39.843	3.50788E+05	271.57	2.55739E+05	-38.166
400.00	40.255	3.52790E+05	276.91	2.42024E+05	-31.604
450.00	40.734	3.54814E+05	281.68	2.28057E+05	-26.472
500.00	41.243	3.56864E+05	286.00	2.13864E+05	-22.342
550.00	41.757	3.58939E+05	289.96	1.99463E+05	-18.943
600.00	42.263	3.61039E+05	293.61	1.84873E+05	-16.094
650.00	42.753	3.63165E+05	297.01	1.70106E+05	-13.670
700.00	43.221	3.65314E+05	300.20	1.55175E+05	-11.579
750.00	43.663	3.67487E+05	303.20	1.40090E+05	-9.7565
800.00	44.077	3.69680E+05	306.03	1.24858E+05	-8.1522
850.00	44.460	3.71894E+05	308.71	1.09489E+05	-6.7282
900.00	44.811	3.74126E+05	311.26	93989.	-5.4549
950.00	45.129	3.76374E+05	313.69	78365.	-4.3087
1000.0	45.413	3.78638E+05	316.02	62622.	-3.2710
1050.0	45.663	3.80915E+05	318.24	46765.	-2.3264
1100.0	45.879	3.83204E+05	320.37	30800.	-1.4625
1150.0	46.059	3.85502E+05	322.41	14730.	-0.66903
1200.0	46.203	3.87809E+05	324.37	-1440.1	6.2E-02
1250.0	46.312	3.90122E+05	326.26	-17706.	0.73989
1300.0	46.385	3.92440E+05	328.08	-34065.	1.3687
1350.0	46.430	3.94760E+05	329.83	-50513.	1.9544
1400.0	46.460	3.97082E+05	331.52	-67047.	2.5015
1450.0	46.478	3.99406E+05	333.15	-83664.	3.0138
1500.0	46.486	4.01730E+05	334.73	-1.00362E+05	3.4948
1550.0	46.485	4.04054E+05	336.25	-1.17136E+05	3.9474
1600.0	46.478	4.06378E+05	337.73	-1.33986E+05	4.3741
1650.0	46.466	4.08702E+05	339.16	-1.50908E+05	4.7772
1700.0	46.450	4.11025E+05	340.54	-1.67901E+05	5.1588
1750.0	46.431	4.13347E+05	341.89	-1.84962E+05	5.5207
1800.0	46.409	4.15668E+05	343.20	-2.02090E+05	5.8643
1850.0	46.387	4.17988E+05	344.47	-2.19281E+05	6.1912
1900.0	46.363	4.20307E+05	345.71	-2.36536E+05	6.5027
1950.0	46.339	4.22624E+05	346.91	-2.53852E+05	6.7997
2000.0	46.316	4.24941E+05	348.08	-2.71227E+05	7.0835
2050.0	46.293	4.27256E+05	349.23	-2.88659E+05	7.3549
2100.0	46.272	4.29570E+05	350.34	-3.06149E+05	7.6148
2150.0	46.252	4.31883E+05	351.43	-3.23693E+05	7.8640
2200.0	46.234	4.34195E+05	352.49	-3.41291E+05	8.1031
2250.0	46.217	4.36507E+05	353.53	-3.58942E+05	8.3328
2300.0	46.204	4.38817E+05	354.55	-3.76644E+05	8.5536
2350.0	46.192	4.41127E+05	355.54	-3.94397E+05	8.7662
2400.0	46.184	4.43436E+05	356.51	-4.12198E+05	8.9710
2450.0	46.178	4.45745E+05	357.47	-4.30048E+05	9.1685
2500.0	46.175	4.48054E+05	358.40	-4.47944E+05	9.3591
2550.0	46.176	4.50363E+05	359.31	-4.65887E+05	9.5431
2600.0	46.179	4.52672E+05	360.21	-4.83876E+05	9.7209
2650.0	46.187	4.54981E+05	361.09	-5.01908E+05	9.8930
2700.0	46.197	4.57291E+05	361.95	-5.19984E+05	10.059
2750.0	46.212	4.59601E+05	362.80	-5.38103E+05	10.221
2800.0	46.230	4.61912E+05	363.63	-5.56264E+05	10.377
2850.0	46.252	4.64224E+05	364.45	-5.74466E+05	10.529
2900.0	46.278	4.66537E+05	365.26	-5.92709E+05	10.676
2950.0	46.307	4.68852E+05	366.05	-6.10992E+05	10.818
3000.0	46.341	4.71168E+05	366.83	-6.29314E+05	10.957

ZrBr2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	77.000	-4.20000E+05	135.00	-4.60250E+05	80.632
300.00	77.033	-4.19858E+05	135.48	-4.60500E+05	80.178
350.00	77.904	-4.15984E+05	147.42	-4.67580E+05	69.781
400.00	78.775	-4.12067E+05	157.88	-4.75218E+05	62.055
450.00	79.645	-4.08107E+05	167.20	-4.83349E+05	56.104
500.00	80.516	-4.04103E+05	175.64	-4.91923E+05	51.390
550.00	81.387	-4.00055E+05	183.36	-5.00901E+05	47.570
600.00	82.258	-3.95964E+05	190.47	-5.10249E+05	44.420
650.00	83.129	-3.91829E+05	197.09	-5.19940E+05	41.782
700.00	84.000	-3.87651E+05	203.29	-5.29951E+05	39.544
750.00	84.871	-3.83429E+05	209.11	-5.40262E+05	37.626
800.00	85.742	-3.79164E+05	214.62	-5.50857E+05	35.966
850.00	86.613	-3.74855E+05	219.84	-5.61719E+05	34.518
900.00	87.484	-3.70503E+05	224.82	-5.72837E+05	33.246
950.00	88.355	-3.66107E+05	229.57	-5.84197E+05	32.121
1000.0	89.226	-3.61667E+05	234.12	-5.95790E+05	31.120
1050.0	90.097	-3.57184E+05	238.50	-6.07607E+05	30.226
1100.0	90.968	-3.52657E+05	242.71	-6.19637E+05	29.423
1100.0	110.00	-3.24657E+05	268.16	-6.19637E+05	29.423
1100.0	110.00	-3.24657E+05	268.16	-6.19638E+05	29.423
1150.0	110.00	-3.19157E+05	273.05	-6.33169E+05	28.759
1200.0	110.00	-3.13657E+05	277.73	-6.46939E+05	28.160
1250.0	110.00	-3.08157E+05	282.23	-6.60939E+05	27.618
1300.0	110.00	-3.02657E+05	286.54	-6.75159E+05	27.128
1350.0	110.00	-2.97157E+05	290.69	-6.89590E+05	26.681
1400.0	110.00	-2.91657E+05	294.69	-7.04225E+05	26.274
1450.0	110.00	-2.86157E+05	298.55	-7.19057E+05	25.903
1500.0	110.00	-2.80657E+05	302.28	-7.34078E+05	25.562
1550.0	110.00	-2.75157E+05	305.89	-7.49283E+05	25.250
1600.0	110.00	-2.69657E+05	309.38	-7.64665E+05	24.963
1650.0	110.00	-2.64157E+05	312.76	-7.80219E+05	24.699
1700.0	110.00	-2.58657E+05	316.05	-7.95940E+05	24.456
1750.0	110.00	-2.53157E+05	319.24	-8.11823E+05	24.231
1800.0	110.00	-2.47657E+05	322.34	-8.27862E+05	24.023
1850.0	110.00	-2.42157E+05	325.35	-8.44055E+05	23.831
1900.0	110.00	-2.36657E+05	328.28	-8.60396E+05	23.653
1950.0	110.00	-2.31157E+05	331.14	-8.76882E+05	23.488
2000.0	110.00	-2.25657E+05	333.93	-8.93509E+05	23.335

ZrBr2<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	61.357	-20791.	317.10	-1.15335E+05	20.206
300.00	61.418	-20677.	317.48	-1.15922E+05	20.183
350.00	63.296	-17561.	327.09	-1.32041E+05	19.706
400.00	65.318	-14346.	335.67	-1.48613E+05	19.406
450.00	67.238	-11031.	343.48	-1.65595E+05	19.221
500.00	68.927	-7625.6	350.65	-1.82950E+05	19.112
550.00	70.311	-4143.3	357.29	-2.00651E+05	19.056
600.00	71.345	-600.35	363.45	-2.18671E+05	19.037
650.00	71.981	2984.6	369.19	-2.36989E+05	19.044
700.00	72.255	6591.7	374.54	-2.55583E+05	19.071
750.00	72.279	10206.	379.52	-2.74436E+05	19.113
800.00	72.129	13817.	384.18	-2.93530E+05	19.165
850.00	71.858	17417.	388.55	-3.12850E+05	19.225
900.00	71.508	21001.	392.65	-3.32381E+05	19.290
950.00	71.107	24567.	396.50	-3.52111E+05	19.360
1000.0	70.678	28111.	400.14	-3.72027E+05	19.432
1050.0	70.239	31634.	403.58	-3.92121E+05	19.506
1100.0	69.802	35135.	406.83	-4.12382E+05	19.582
1150.0	69.378	38615.	409.93	-4.32802E+05	19.658
1200.0	68.976	42074.	412.87	-4.53372E+05	19.734
1250.0	68.603	45513.	415.68	-4.74087E+05	19.810
1300.0	68.263	48934.	418.36	-4.94938E+05	19.886
1350.0	67.962	52340.	420.93	-5.15921E+05	19.962
1400.0	67.706	55731.	423.40	-5.37030E+05	20.036
1450.0	67.434	59110.	425.77	-5.58260E+05	20.110
1500.0	67.194	62475.	428.05	-5.79606E+05	20.183
1550.0	66.982	65830.	430.25	-6.01064E+05	20.255
1600.0	66.794	69174.	432.38	-6.22630E+05	20.326
1650.0	66.628	72509.	434.43	-6.44300E+05	20.396
1700.0	66.481	75837.	436.42	-6.66072E+05	20.465
1750.0	66.350	79158.	438.34	-6.87941E+05	20.533
1800.0	66.234	82472.	440.21	-7.09905E+05	20.600
1850.0	66.132	85781.	442.02	-7.31961E+05	20.666
1900.0	66.041	89086.	443.79	-7.54106E+05	20.731
1950.0	65.961	92386.	445.50	-7.76339E+05	20.795
2000.0	65.890	95682.	447.17	-7.98655E+05	20.858
2050.0	65.828	98975.	448.79	-8.21055E+05	20.920
2100.0	65.774	1.02265E+05	450.38	-8.43534E+05	20.981
2150.0	65.727	1.05552E+05	451.93	-8.66092E+05	21.041
2200.0	65.686	1.08838E+05	453.44	-8.88726E+05	21.101
2250.0	65.650	1.12121E+05	454.91	-9.11435E+05	21.159
2300.0	65.620	1.15403E+05	456.36	-9.34217E+05	21.216
2350.0	65.594	1.18683E+05	457.77	-9.57071E+05	21.273
2400.0	65.573	1.21962E+05	459.15	-9.79994E+05	21.328
2450.0	65.556	1.25240E+05	460.50	-1.00298E+06	21.383
2500.0	65.542	1.28518E+05	461.82	-1.02604E+06	21.437
2550.0	65.532	1.31795E+05	463.12	-1.04917E+06	21.491
2600.0	65.524	1.35071E+05	464.39	-1.07235E+06	21.543
2650.0	65.519	1.38347E+05	465.64	-1.09561E+06	21.595
2700.0	65.517	1.41623E+05	466.87	-1.11892E+06	21.646
2750.0	65.517	1.44899E+05	468.07	-1.14229E+06	21.697
2800.0	65.519	1.48175E+05	469.25	-1.16573E+06	21.746
2850.0	65.524	1.51451E+05	470.41	-1.18922E+06	21.795
2900.0	65.529	1.54727E+05	471.55	-1.21277E+06	21.844
2950.0	65.537	1.58004E+05	472.67	-1.23637E+06	21.891
3000.0	65.546	1.61281E+05	473.77	-1.26003E+06	21.939

ZrBr3

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	96.000	-6.00000E+05	170.00	-6.50686E+05	113.99
300.00	96.136	-5.99822E+05	170.59	-6.51001E+05	113.35
350.00	99.229	-5.94934E+05	185.66	-6.59915E+05	98.484
400.00	101.55	-5.89912E+05	199.07	-6.69539E+05	87.431
450.00	103.41	-5.84787E+05	211.14	-6.79799E+05	78.907
500.00	105.00	-5.79575E+05	222.12	-6.90635E+05	72.148
550.00	106.40	-5.74290E+05	232.19	-7.01996E+05	66.668
600.00	107.68	-5.68937E+05	241.51	-7.13841E+05	62.144
650.00	108.87	-5.63523E+05	250.17	-7.26136E+05	58.352
700.00	110.00	-5.58051E+05	258.28	-7.38849E+05	55.132
750.00	111.08	-5.52524E+05	265.91	-7.51956E+05	52.370
800.00	112.12	-5.46944E+05	273.11	-7.65433E+05	49.976
850.00	113.14	-5.41312E+05	279.94	-7.79261E+05	47.886
900.00	114.13	-5.35630E+05	286.43	-7.93422E+05	46.048
950.00	115.11	-5.29899E+05	292.63	-8.07899E+05	44.420
1000.0	116.08	-5.24119E+05	298.56	-8.22680E+05	42.971
1000.0	130.00	-4.91119E+05	331.56	-8.22680E+05	42.971
1000.0	130.00	-4.91119E+05	331.56	-8.22680E+05	42.971
1050.0	130.00	-4.84619E+05	337.90	-8.39418E+05	41.758
1100.0	130.00	-4.78119E+05	343.95	-8.56466E+05	40.669
1150.0	130.00	-4.71619E+05	349.73	-8.73809E+05	39.689
1200.0	130.00	-4.65119E+05	355.26	-8.91435E+05	38.802
1250.0	130.00	-4.58619E+05	360.57	-9.09331E+05	37.998
1300.0	130.00	-4.52119E+05	365.67	-9.27488E+05	37.266
1350.0	130.00	-4.45619E+05	370.57	-9.45895E+05	36.598
1400.0	130.00	-4.39119E+05	375.30	-9.64543E+05	35.987
1450.0	130.00	-4.32619E+05	379.86	-9.83423E+05	35.426
1500.0	130.00	-4.26119E+05	384.27	-1.00253E+06	34.910
1550.0	130.00	-4.19619E+05	388.53	-1.02185E+06	34.435
1600.0	130.00	-4.13119E+05	392.66	-1.04138E+06	33.997
1650.0	130.00	-4.06619E+05	396.66	-1.06111E+06	33.591
1700.0	130.00	-4.00119E+05	400.54	-1.08104E+06	33.216
1750.0	130.00	-3.93619E+05	404.31	-1.10116E+06	32.867
1800.0	130.00	-3.87119E+05	407.97	-1.12147E+06	32.543
1850.0	130.00	-3.80619E+05	411.54	-1.14196E+06	32.242
1900.0	130.00	-3.74119E+05	415.00	-1.16262E+06	31.962
1950.0	130.00	-3.67619E+05	418.38	-1.18346E+06	31.700
2000.0	130.00	-3.61119E+05	421.67	-1.20446E+06	31.456

ZrBr3<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	80.067	-3.40742E+05	378.77	-4.53671E+05	79.479
300.00	80.134	-3.40594E+05	379.26	-4.54373E+05	79.111
350.00	81.814	-3.36544E+05	391.74	-4.73655E+05	70.687
400.00	83.275	-3.32416E+05	402.77	-4.93523E+05	64.446
450.00	84.546	-3.28220E+05	412.65	-5.13912E+05	59.652
500.00	85.644	-3.23964E+05	421.62	-5.34773E+05	55.866
550.00	86.578	-3.19658E+05	429.82	-5.56062E+05	52.809
600.00	87.354	-3.15309E+05	437.39	-5.77744E+05	50.296
650.00	87.974	-3.10925E+05	444.41	-5.99792E+05	48.199
700.00	88.442	-3.06514E+05	450.95	-6.22177E+05	46.426
750.00	88.758	-3.02084E+05	457.06	-6.44879E+05	44.912
800.00	88.924	-2.97641E+05	462.80	-6.67877E+05	43.607
850.00	88.873	-2.93196E+05	468.18	-6.91153E+05	42.472
900.00	88.785	-2.88754E+05	473.26	-7.14690E+05	41.479
950.00	88.670	-2.84318E+05	478.06	-7.38475E+05	40.603
1000.0	88.536	-2.79888E+05	482.60	-7.62492E+05	39.827
1050.0	88.386	-2.75464E+05	486.92	-7.86731E+05	39.137
1100.0	88.226	-2.71049E+05	491.03	-8.11181E+05	38.519
1150.0	88.058	-2.66642E+05	494.95	-8.35831E+05	37.964
1200.0	87.887	-2.62243E+05	498.69	-8.60673E+05	37.463
1250.0	87.712	-2.57853E+05	502.28	-8.85697E+05	37.010
1300.0	87.537	-2.53472E+05	505.71	-9.10898E+05	36.599
1350.0	87.363	-2.49100E+05	509.01	-9.36266E+05	36.225
1400.0	87.191	-2.44736E+05	512.19	-9.61797E+05	35.884
1450.0	87.021	-2.40381E+05	515.24	-9.87483E+05	35.572
1500.0	86.856	-2.36034E+05	518.19	-1.01332E+06	35.286
1550.0	86.694	-2.31695E+05	521.04	-1.03930E+06	35.023
1600.0	86.538	-2.27364E+05	523.79	-1.06542E+06	34.782
1650.0	86.386	-2.23041E+05	526.45	-1.09168E+06	34.559
1700.0	86.241	-2.18725E+05	529.02	-1.11806E+06	34.353
1750.0	86.102	-2.14417E+05	531.52	-1.14458E+06	34.163
1800.0	85.970	-2.10115E+05	533.94	-1.17122E+06	33.987
1850.0	85.844	-2.05820E+05	536.30	-1.19797E+06	33.824
1900.0	85.725	-2.01531E+05	538.59	-1.22484E+06	33.672
1950.0	85.614	-1.97247E+05	540.81	-1.25183E+06	33.532
2000.0	85.509	-1.92969E+05	542.98	-1.27892E+06	33.401
2050.0	85.413	-1.88696E+05	545.09	-1.30613E+06	33.280
2100.0	85.324	-1.84428E+05	547.14	-1.33343E+06	33.166
2150.0	85.243	-1.80164E+05	549.15	-1.36084E+06	33.061
2200.0	85.170	-1.75903E+05	551.11	-1.38835E+06	32.963
2250.0	85.104	-1.71646E+05	553.02	-1.41595E+06	32.871
2300.0	85.047	-1.67393E+05	554.89	-1.44365E+06	32.785
2350.0	84.999	-1.63142E+05	556.72	-1.47144E+06	32.706
2400.0	84.958	-1.58893E+05	558.51	-1.49932E+06	32.631
2450.0	84.926	-1.54646E+05	560.26	-1.52729E+06	32.561
2500.0	84.902	-1.50400E+05	561.98	-1.55535E+06	32.496
2550.0	84.886	-1.46155E+05	563.66	-1.58349E+06	32.436
2600.0	84.879	-1.41911E+05	565.31	-1.61171E+06	32.379
2650.0	84.881	-1.37667E+05	566.92	-1.64002E+06	32.326
2700.0	84.891	-1.33423E+05	568.51	-1.66840E+06	32.276
2750.0	84.910	-1.29178E+05	570.07	-1.69687E+06	32.230
2800.0	84.935	-1.24932E+05	571.60	-1.72541E+06	32.187
2850.0	84.936	-1.20685E+05	573.10	-1.75403E+06	32.147
2900.0	84.939	-1.16438E+05	574.58	-1.78272E+06	32.109
2950.0	84.945	-1.12191E+05	576.03	-1.81148E+06	32.075
3000.0	84.953	-1.07944E+05	577.46	-1.84032E+06	32.042

ZrBr4

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	121.00	-7.59500E+05	220.00	-8.25093E+05	144.55
300.00	121.13	-7.59276E+05	220.75	-8.25501E+05	143.73
350.00	123.97	-7.53144E+05	239.65	-8.37021E+05	124.92
400.00	126.04	-7.46891E+05	256.34	-8.49429E+05	110.92
450.00	127.66	-7.40547E+05	271.29	-8.62626E+05	100.13
500.00	129.00	-7.34130E+05	284.81	-8.76534E+05	91.569
550.00	130.15	-7.27650E+05	297.16	-8.91088E+05	84.626
600.00	131.18	-7.21116E+05	308.53	-9.06233E+05	78.893
650.00	132.12	-7.14533E+05	319.07	-9.21927E+05	74.085
700.00	133.00	-7.07905E+05	328.89	-9.38128E+05	70.002
723.00	133.39	-7.04842E+05	333.20	-9.45742E+05	68.325
723.00	150.00	-6.74842E+05	374.69	-9.45743E+05	68.325
750.00	150.00	-6.70792E+05	380.19	-9.55934E+05	66.575
800.00	150.00	-6.63292E+05	389.87	-9.75188E+05	63.672

ZrBr4<g>

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	102.67	-6.44754E+05	414.48	-7.68332E+05	134.61
300.00	102.74	-6.44564E+05	415.12	-7.69099E+05	133.91
350.00	104.10	-6.39391E+05	431.06	-7.90263E+05	117.94
400.00	104.99	-6.34162E+05	445.02	-8.12172E+05	106.06
450.00	105.60	-6.28897E+05	457.43	-8.34739E+05	96.892
500.00	106.05	-6.23605E+05	468.58	-8.57894E+05	89.621
550.00	106.38	-6.18294E+05	478.70	-8.81580E+05	83.723
600.00	106.64	-6.12968E+05	487.97	-9.05750E+05	78.851
650.00	106.84	-6.07631E+05	496.51	-9.30365E+05	74.763
700.00	107.00	-6.02285E+05	504.44	-9.55391E+05	71.290
750.00	107.14	-5.96931E+05	511.83	-9.80800E+05	68.307
800.00	107.25	-5.91571E+05	518.74	-1.00657E+06	65.720
850.00	107.34	-5.86206E+05	525.25	-1.03267E+06	63.458
900.00	107.42	-5.80837E+05	531.39	-1.05908E+06	61.466
950.00	107.49	-5.75464E+05	537.20	-1.08580E+06	59.700
1000.0	107.55	-5.70088E+05	542.71	-1.11280E+06	58.125
1050.0	107.60	-5.64709E+05	547.96	-1.14007E+06	56.714
1100.0	107.65	-5.59328E+05	552.97	-1.16759E+06	55.443
1150.0	107.69	-5.53944E+05	557.75	-1.19536E+06	54.294
1200.0	107.72	-5.48559E+05	562.34	-1.22336E+06	53.250
1250.0	107.76	-5.43172E+05	566.74	-1.25159E+06	52.300
1300.0	107.78	-5.37783E+05	570.96	-1.28003E+06	51.431
1350.0	107.81	-5.32394E+05	575.03	-1.30868E+06	50.635
1400.0	107.83	-5.27003E+05	578.95	-1.33753E+06	49.903
1450.0	107.85	-5.21611E+05	582.74	-1.36658E+06	49.228
1500.0	107.86	-5.16218E+05	586.39	-1.39581E+06	48.605
1550.0	107.88	-5.10824E+05	589.93	-1.42521E+06	48.028
1600.0	107.89	-5.05430E+05	593.35	-1.45480E+06	47.493
1650.0	107.90	-5.00035E+05	596.67	-1.48455E+06	46.996
1700.0	107.91	-4.94640E+05	599.90	-1.51446E+06	46.533
1750.0	107.92	-4.89244E+05	603.02	-1.54454E+06	46.101
1800.0	107.92	-4.83848E+05	606.06	-1.57476E+06	45.697
1850.0	107.93	-4.78452E+05	609.02	-1.60514E+06	45.320
1900.0	107.94	-4.73055E+05	611.90	-1.63566E+06	44.966
1950.0	107.95	-4.67658E+05	614.70	-1.66633E+06	44.635
2000.0	107.95	-4.62261E+05	617.44	-1.69713E+06	44.323
2050.0	107.96	-4.56863E+05	620.10	-1.72807E+06	44.031
2100.0	107.97	-4.51465E+05	622.70	-1.75914E+06	43.755
2150.0	107.97	-4.46066E+05	625.24	-1.79034E+06	43.496
2200.0	107.98	-4.40668E+05	627.73	-1.82167E+06	43.251
2250.0	107.98	-4.35269E+05	630.15	-1.85311E+06	43.020
2300.0	107.99	-4.29870E+05	632.53	-1.88468E+06	42.801
2350.0	107.99	-4.24470E+05	634.85	-1.91637E+06	42.595
2400.0	107.99	-4.19071E+05	637.12	-1.94816E+06	42.400
2450.0	108.00	-4.13671E+05	639.35	-1.98008E+06	42.215
2500.0	108.00	-4.08271E+05	641.53	-2.01210E+06	42.039
2550.0	108.00	-4.02871E+05	643.67	-2.04423E+06	41.873
2600.0	108.01	-3.97470E+05	645.77	-2.07647E+06	41.716
2650.0	108.01	-3.92070E+05	647.82	-2.10881E+06	41.566
2700.0	108.01	-3.86669E+05	649.84	-2.14125E+06	41.424
2750.0	108.02	-3.81269E+05	651.83	-2.17379E+06	41.289
2800.0	108.02	-3.75868E+05	653.77	-2.20643E+06	41.160
2850.0	108.02	-3.70467E+05	655.68	-2.23917E+06	41.038
2900.0	108.02	-3.65066E+05	657.56	-2.27200E+06	40.922
2950.0	108.02	-3.59665E+05	659.41	-2.30492E+06	40.811
3000.0	108.03	-3.54263E+05	661.22	-2.33794E+06	40.706

ZrB2

T K	Cp J/(mol.K)	H-Hser J/mol	S J/(mol.K)	G-Hser J/mol	Beta -G/RTln10
298.15	48.241	-3.22586E+05	35.941	-3.33302E+05	58.392
300.00	48.474	-3.22497E+05	36.240	-3.33369E+05	58.043
350.00	53.713	-3.19935E+05	44.130	-3.35380E+05	50.051
400.00	57.506	-3.17149E+05	51.562	-3.37774E+05	44.108
450.00	60.385	-3.14199E+05	58.509	-3.40528E+05	39.526
500.00	62.633	-3.11121E+05	64.992	-3.43617E+05	35.897
550.00	64.410	-3.07944E+05	71.048	-3.47020E+05	32.956
600.00	65.810	-3.04687E+05	76.715	-3.50716E+05	30.532
650.00	67.013	-3.01365E+05	82.032	-3.54686E+05	28.502
700.00	68.037	-2.97988E+05	87.036	-3.58914E+05	26.782
750.00	68.926	-2.94564E+05	91.761	-3.63385E+05	25.308
800.00	69.712	-2.91097E+05	96.235	-3.68086E+05	24.033
850.00	70.417	-2.87594E+05	100.48	-3.73005E+05	22.921
900.00	71.057	-2.84057E+05	104.53	-3.78131E+05	21.946
950.00	71.645	-2.80489E+05	108.38	-3.83454E+05	21.083
1000.0	72.189	-2.76893E+05	112.07	-3.88966E+05	20.317
1050.0	72.697	-2.73271E+05	115.61	-3.94659E+05	19.633
1100.0	73.174	-2.69624E+05	119.00	-4.00525E+05	19.019
1150.0	73.685	-2.65952E+05	122.26	-4.06557E+05	18.466
1200.0	74.195	-2.62255E+05	125.41	-4.12749E+05	17.966
1250.0	74.705	-2.58533E+05	128.45	-4.19096E+05	17.513
1300.0	75.216	-2.54785E+05	131.39	-4.25593E+05	17.100
1350.0	75.726	-2.51011E+05	134.24	-4.32234E+05	16.724
1400.0	76.237	-2.47212E+05	137.00	-4.39015E+05	16.379
1450.0	76.747	-2.43388E+05	139.69	-4.45933E+05	16.064
1500.0	77.258	-2.39537E+05	142.30	-4.52982E+05	15.774
1550.0	77.768	-2.35662E+05	144.84	-4.60161E+05	15.507
1600.0	78.279	-2.31761E+05	147.32	-4.67465E+05	15.261
1650.0	78.789	-2.27834E+05	149.73	-4.74892E+05	15.033
1700.0	79.300	-2.23882E+05	152.09	-4.82437E+05	14.823
1750.0	79.810	-2.19904E+05	154.40	-4.90100E+05	14.628
1800.0	80.320	-2.15901E+05	156.65	-4.97876E+05	14.448
1850.0	80.831	-2.11872E+05	158.86	-5.05764E+05	14.280
1900.0	81.341	-2.07818E+05	161.02	-5.13762E+05	14.124
1950.0	81.852	-2.03738E+05	163.14	-5.21866E+05	13.979
2000.0	82.362	-1.99632E+05	165.22	-5.30075E+05	13.844
2050.0	82.873	-1.95502E+05	167.26	-5.38388E+05	13.718
2100.0	83.383	-1.91345E+05	169.26	-5.46801E+05	13.601
2150.0	83.894	-1.87163E+05	171.23	-5.55313E+05	13.491
2200.0	84.404	-1.82956E+05	173.17	-5.63924E+05	13.389
2250.0	84.914	-1.78723E+05	175.07	-5.72630E+05	13.293
2300.0	85.425	-1.74464E+05	176.94	-5.81430E+05	13.204
2350.0	85.935	-1.70180E+05	178.78	-5.90323E+05	13.121
2400.0	86.446	-1.65871E+05	180.60	-5.99308E+05	13.043
2450.0	86.956	-1.61536E+05	182.39	-6.08383E+05	12.971
2500.0	87.467	-1.57175E+05	184.15	-6.17546E+05	12.903
2550.0	87.977	-1.52789E+05	185.89	-6.26797E+05	12.839
2600.0	88.488	-1.48377E+05	187.60	-6.36134E+05	12.780
2650.0	88.998	-1.43940E+05	189.29	-6.45557E+05	12.724
2700.0	89.508	-1.39478E+05	190.96	-6.55063E+05	12.673
2750.0	90.019	-1.34989E+05	192.60	-6.64652E+05	12.624
2800.0	90.529	-1.30476E+05	194.23	-6.74323E+05	12.579
2850.0	91.040	-1.25937E+05	195.84	-6.84075E+05	12.537
2900.0	91.550	-1.21372E+05	197.43	-6.93906E+05	12.498
2950.0	92.061	-1.16782E+05	199.00	-7.03817E+05	12.462
3000.0	92.571	-1.12166E+05	200.55	-7.13806E+05	12.428