

UNITED STATES DEPARTMENT OF COMMERCE • Luther H. Hodges, *Secretary*
NATIONAL BUREAU OF STANDARDS • A. V. Astin, *Director*

Ideal Gas Thermodynamic Functions and Isotope Exchange Functions for the Diatomic Hydrides, Deuterides, and Tritides

Lester Haar, Abraham S. Friedman, and Charles W. Beckett



National Bureau of Standards Monograph 20

Issued May 29, 1961

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

Preface

In recent years the isotopes of hydrogen have assumed a significant role as research tools in chemistry, physics, biology, and nuclear engineering. In view of the importance of the isotopes of hydrogen in science and industry, the Thermodynamics Section of the National Bureau of Standards in 1951 undertook a research program, sponsored in part by the Division of Research of the United States Atomic Energy Commission, to investigate, both theoretically and experimentally, isotope effects in hydrogen compounds. The study has involved the isotope effects on the data of state, reaction kinetics, thermodynamic functions, and a variety of other physico-chemical phenomena. One phase of this program has been the calculation and tabulation of thermodynamic functions and equilibrium exchange functions of compounds and reactions involving hydrogen, deuterium, and tritium. This Monograph contains such tables for diatomic hydrides, deuterides, and tritides, and includes nearly all species for which adequate structural data have been experimentally reported or can be derived.

A. V. ASTIN, *Director.*

Contents

	Page		Page
Preface.....	III	Table 2—Continued	
Introduction.....	1	2.049—AuH.....	98
Molecular constants.....	1	2.050—AuD.....	100
Thermodynamic functions.....	2	2.051—AuT.....	102
Isotope exchange reactions.....	3	2.052—ZnH.....	104
Tables.....	4	2.053—ZnD.....	106
Estimated uncertainties.....	4	2.054—ZnT.....	108
References.....	6	2.055—CdH.....	110
Table 1. Molecular constants.....	6	2.056—CdD.....	112
Table 2. Ideal gas thermodynamic functions; heat capacity, enthalpy, free energy, en- tropy:		2.057—CdT.....	114
2.001—H ₂ normal mixture.....	9	2.058—HgH.....	116
2.002—H ₂ equilibrium mixture.....	11	2.059—HgD.....	118
2.003—H ₂ para (includes only the even num- bered rotational states).....	12	2.060—HgT.....	120
2.004—D ₂ normal mixture.....	13	2.061—BH.....	122
2.005—D ₂ equilibrium mixture.....	15	2.062—BD.....	124
2.006—D ₂ ortho (includes only the even num- bered rotational states).....	16	2.063—BT.....	126
2.007—T ₂ normal mixture.....	17	2.064—AlH.....	128
2.008—T ₂ equilibrium mixture.....	19	2.065—AlD.....	130
2.009—T ₂ para (includes only the even num- bered rotational states).....	19	2.066—AlT.....	132
2.010—HD.....	20	2.067—InH.....	134
2.011—HT.....	22	2.068—InD.....	136
2.012—DT.....	24	2.069—InT.....	138
2.013—LiH.....	26	2.070—TiH.....	140
2.014—LiD.....	28	2.071—TiD.....	142
2.015—LiT.....	30	2.072—TiT.....	144
2.016—NaH.....	32	2.073—CH.....	146
2.017—NaD.....	34	2.074—CD.....	148
2.018—NaT.....	36	2.075—CT.....	150
2.019—KH.....	38	2.076—SiH.....	152
2.020—KD.....	40	2.077—SiD.....	154
2.021—KT.....	42	2.078—SiT.....	156
2.022—RbH.....	44	2.079—SnH.....	158
2.023—RbD.....	46	2.080—SnD.....	160
2.024—RbT.....	48	2.081—SnT.....	162
2.025—CsH.....	50	2.082—PbH.....	164
2.026—CsD.....	52	2.083—PbD.....	166
2.027—CsT.....	54	2.084—PbT.....	168
2.028—BeH.....	56	2.085—NH.....	170
2.029—BeD.....	58	2.086—ND.....	172
2.030—BeT.....	60	2.087—NT.....	174
2.031—MgH.....	62	2.088—PH.....	176
2.032—MgD.....	64	2.089—PD.....	178
2.033—MgT.....	66	2.090—PT.....	180
2.034—CaH.....	68	2.091—BiH.....	182
2.035—CaD.....	70	2.092—BiD.....	184
2.036—CaT.....	72	2.093—BiT.....	186
2.037—SrH.....	74	2.094—OH.....	188
2.038—SrD.....	76	2.095—OD.....	190
2.039—SrT.....	78	2.096—OT.....	192
2.040—BaH.....	80	2.097—SH.....	194
2.041—BaD.....	82	2.098—SD.....	196
2.042—BaT.....	84	2.099—ST.....	198
2.043—CuH.....	86	2.100—HF.....	200
2.044—CuD.....	88	2.101—DF.....	202
2.045—CuT.....	90	2.102—TF.....	204
2.046—AgH.....	92	2.103—ClH.....	206
2.047—AgD.....	94	2.104—ClD.....	208
2.048—AgT.....	96	2.105—ClT.....	210
		2.106—BrH.....	212
		2.107—BrD.....	214
		2.108—BrT.....	216
		2.109—HI.....	218
		2.110—DI.....	220
		2.111—TI.....	222

		Page			Page
Table 3. Heat capacity, enthalpy, free energy, and entropy for the isotope exchange reactions: tabulated data refer to the half-reactions, see text eqs [3, 4, 5, 6]:			Table 3—Continued		
3.01	Increment in thermal functions for H ₂ and HD	224	3.23	Increment in thermal functions for AlH and AlD	246
	Increment in thermal functions for H ₂ and HT	224		Increment in thermal functions for AlH and AlT	246
	Increment in thermal functions for H ₂ and D ₂	224	3.24	Increment in thermal functions for AlD and AlT	246
3.02	Increment in thermal functions for H ₂ and DT	225		Increment in thermal functions for InH and InD	247
	Increment in thermal functions for H ₂ and T ₂	225		Increment in thermal functions for InH and InT	247
	Increment in thermal functions for HD and HT	225	3.25	Increment in thermal functions for InD and InT	247
3.03	Increment in thermal functions for HD and D ₂	226		Increment in thermal functions for TiH and TiD	248
	Increment in thermal functions for HD and DT	226		Increment in thermal functions for TiH and TiT	248
	Increment in thermal functions for HD and T ₂	226	3.26	Increment in thermal functions for TiD and TiT	248
3.04	Increment in thermal functions for HT and D ₂	227		Increment in thermal functions for CH and CD	249
	Increment in thermal functions for HT and DT	227		Increment in thermal functions for CH and CT	249
	Increment in thermal functions for HT and T ₂	227	3.27	Increment in thermal functions for CD and CT	249
3.05	Increment in thermal functions for D ₂ and DT	228		Increment in thermal functions for SiH and SiD	250
	Increment in thermal functions for D ₂ and T ₂	228		Increment in thermal functions for SiH and SiT	250
	Increment in thermal functions for DT and T ₂	228	3.28	Increment in thermal functions for SiD and SiT	250
3.06	Increment in thermal functions for LiH and LiD	229		Increment in thermal functions for SnH and SnD	251
	Increment in thermal functions for LiH and LiT	229		Increment in thermal functions for SnH and SnT	251
	Increment in thermal functions for LiD and LiT	229	3.29	Increment in thermal functions for SnD and SnT	251
3.07	Increment in thermal functions for NaH and NaD	230		Increment in thermal functions for PbH and PbD	252
	Increment in thermal functions for NaH and NaT	230		Increment in thermal functions for PbH and PbT	252
	Increment in thermal functions for NaD and NaT	230	3.30	Increment in thermal functions for PbD and PbT	252
3.08	Increment in thermal functions for KH and KD	231		Increment in thermal functions for NH and ND	253
	Increment in thermal functions for KH and KT	231		Increment in thermal functions for NH and NT	253
	Increment in thermal functions for KD and KT	231	3.31	Increment in thermal functions for ND and NT	253
3.09	Increment in thermal functions for RbH and RbD	232		Increment in thermal functions for PH and PD	254
	Increment in thermal functions for RbH and RbT	232		Increment in thermal functions for PH and PT	254
	Increment in thermal functions for RbD and RbT	232	3.32	Increment in thermal functions for PD and PT	254
3.10	Increment in thermal functions for CsH and CsD	233		Increment in thermal functions for BiH and BiD	255
	Increment in thermal functions for CsH and CsT	233		Increment in thermal functions for BiH and BiT	255
	Increment in thermal functions for CsD and CsT	233	3.33	Increment in thermal functions for BiD and BiT	255
3.11	Increment in thermal functions for BeH and BeD	234		Increment in thermal functions for OH and OD	256
	Increment in thermal functions for BeH and BeT	234		Increment in thermal functions for OH and OT	256
	Increment in thermal functions for BeD and BeT	234	3.34	Increment in thermal functions for OD and OT	256
3.12	Increment in thermal functions for MgH and MgD	235		Increment in thermal functions for SH and SD	257
	Increment in thermal functions for MgH and MgT	235		Increment in thermal functions for SH and ST	257
	Increment in thermal functions for MgD and MgT	235	3.35	Increment in thermal functions for SD and ST	257
3.13	Increment in thermal functions for CaH and CaD	236		Increment in thermal functions for FH and FD	258
	Increment in thermal functions for CaH and CaT	236		Increment in thermal functions for FH and FT	258
	Increment in thermal functions for CaD and CaT	236	3.36	Increment in thermal functions for FD and FT	258
3.14	Increment in thermal functions for SrH and SrD	237		Increment in thermal functions for ClH and ClD	259
	Increment in thermal functions for SrH and SrT	237		Increment in thermal functions for ClH and ClT	259
	Increment in thermal functions for SrD and SrT	237	3.37	Increment in thermal functions for ClD and ClT	259
3.15	Increment in thermal functions for BaH and BaD	238		Increment in thermal functions for BrH and BrD	260
	Increment in thermal functions for BaH and BaT	238		Increment in thermal functions for BrH and BrT	260
	Increment in thermal functions for BaD and BaT	238	3.38	Increment in thermal functions for BrD and BrT	260
3.16	Increment in thermal functions for CuH and CuD	239		Increment in thermal functions for HI and DI	261
	Increment in thermal functions for CuH and CuT	239		Increment in thermal functions for HI and TI	261
	Increment in thermal functions for CuD and CuT	239		Increment in thermal functions for DI and TI	261
3.17	Increment in thermal functions for AgH and AgD	240	Table 4. Normalized free energy for hydrogen isotope exchange [see text, eq (7)]:		
	Increment in thermal functions for AgH and AgT	240	4.01	Normalized free energy difference for H ₂ and HD	262
	Increment in thermal functions for AgD and AgT	240		Normalized free energy difference for H ₂ and HT	262
3.18	Increment in thermal functions for AuH and AuD	241		Normalized free energy difference for HD and D ₂	262
	Increment in thermal functions for AuH and AuT	241		Normalized free energy difference for HD and HT	262
	Increment in thermal functions for AuD and AuT	241		Normalized free energy difference for HD and DT	262
3.19	Increment in thermal functions for ZnH and ZnD	242		Normalized free energy difference for D ₂ and DT	262
	Increment in thermal functions for ZnH and ZnT	242		Normalized free energy difference for HT and DT	262
	Increment in thermal functions for ZnD and ZnT	242		Normalized free energy difference for HT and T ₂	262
3.20	Increment in thermal functions for CdH and CdD	243		Normalized free energy difference for DT and T ₂	262
	Increment in thermal functions for CdH and CdT	243	4.02	Normalized free energy difference for LiH and LiD	263
	Increment in thermal functions for CdD and CdT	243		Normalized free energy difference for LiH and LiT	263
3.21	Increment in thermal functions for HgH and HgD	244		Normalized free energy difference for LiD and LiT	263
	Increment in thermal functions for HgH and HgT	244		Normalized free energy difference for NaH and NaD	263
	Increment in thermal functions for HgD and HgT	244		Normalized free energy difference for NaH and NaT	263
3.22	Increment in thermal functions for BH and BD	245		Normalized free energy difference for NaD and NaT	263
	Increment in thermal functions for BH and BT	245		Normalized free energy difference for KH and KD	263
	Increment in thermal functions for BD and BT	245			

Table 4—Continued	Page
Normalized free energy difference for KH and KT	263
Normalized free energy difference for KD and KT	263
Normalized free energy difference for RbH and RbD	263
Normalized free energy difference for RbH and RbT	263
Normalized free energy difference for RbD and RbT	263
4.03 Normalized free energy difference for CsH and CsD	264
Normalized free energy difference for CsH and CsT	264
Normalized free energy difference for CsD and CsT	264
Normalized free energy difference for BeH and BeD	264
Normalized free energy difference for BeH and BeT	264
Normalized free energy difference for BeD and BeT	264
Normalized free energy difference for MgH and MgD	264
Normalized free energy difference for MgH and MgT	264
Normalized free energy difference for MgD and MgT	264
Normalized free energy difference for CaH and CaD	264
Normalized free energy difference for CaH and CaT	264
Normalized free energy difference for CaD and CaT	264
4.04 Normalized free energy difference for SrH and SrD	265
Normalized free energy difference for SrH and SrT	265
Normalized free energy difference for SrD and SrT	265
Normalized free energy difference for BaH and BaD	265
Normalized free energy difference for BaH and BaT	265
Normalized free energy difference for BaD and BaT	265
Normalized free energy difference for CuH and CuD	265
Normalized free energy difference for CuH and CuT	265
Normalized free energy difference for CuD and CuT	265
Normalized free energy difference for AgH and AgD	265
Normalized free energy difference for AgH and AgT	265
Normalized free energy difference for AgD and AgT	265
4.05 Normalized free energy difference for AuH and AuD	266
Normalized free energy difference for AuH and AuT	266
Normalized free energy difference for AuD and AuT	266
Normalized free energy difference for ZnH and ZnD	266
Normalized free energy difference for ZnH and ZnT	266
Normalized free energy difference for ZnD and ZnT	266
Normalized free energy difference for CdH and CdD	266
Normalized free energy difference for CdH and CdT	266
Normalized free energy difference for CdD and CdT	266

Table 4—Continued	Page
Normalized free energy difference for HgH and HgD	266
Normalized free energy difference for HgH and HgT	266
Normalized free energy difference for HgD and HgT	266
4.06 Normalized free energy difference for BH and BD	267
Normalized free energy difference for BH and BT	267
Normalized free energy difference for BD and BT	267
Normalized free energy difference for AlH and AlD	267
Normalized free energy difference for AlH and AlT	267
Normalized free energy difference for AlD and AlT	267
Normalized free energy difference for InH and InD	267
Normalized free energy difference for InH and InT	267
Normalized free energy difference for InD and InT	267
Normalized free energy difference for TiH and TiD	267
Normalized free energy difference for TiH and TiT	267
Normalized free energy difference for TiD and TiT	267
4.07 Normalized free energy difference for CH and CD	268
Normalized free energy difference for CH and CT	268
Normalized free energy difference for CD and CT	268
Normalized free energy difference for SiH and SiD	268
Normalized free energy difference for SiH and SiT	268
Normalized free energy difference for SiD and SiT	268
Normalized free energy difference for SnH and SnD	268
Normalized free energy difference for SnH and SnT	268
Normalized free energy difference for SnD and SnT	268
Normalized free energy difference for PbH and PbD	268
Normalized free energy difference for PbH and PbT	268
Normalized free energy difference for PbD and PbT	268
4.08 Normalized free energy difference for NH and ND	269
Normalized free energy difference for NH and NT	269
Normalized free energy difference for ND and NT	269
Normalized free energy difference for PH and PD	269
Normalized free energy difference for PH and PT	269
Normalized free energy difference for PD and PT	269
Normalized free energy difference for BiH and BiD	269
Normalized free energy difference for BiH and BiT	269
Normalized free energy difference for BiD and BiT	269
Normalized free energy difference for OH and OD	269
Normalized free energy difference for OH and OT	269

	Page		Page
Table 4—Continued		Table 4—Continued	
Normalized free energy difference for OD and OT	269	Normalized free energy difference for ClH and ClT	270
4.09 Normalized free energy difference for SH and SD	270	Normalized free energy difference for ClD and ClT	270
Normalized free energy difference for SH and ST	270	Normalized free energy difference for BrH and BrD	270
Normalized free energy difference for SD and ST	270	Normalized free energy difference for BrH and BrT	270
Normalized free energy difference for FH and FD	270	Normalized free energy difference for BrD and BrT	270
Normalized free energy difference for FH and FT	270	4.10 Normalized free energy difference for HI and DI	271
Normalized free energy difference for FD and FT	270	Normalized free energy difference for HI and TI	271
Normalized free energy difference for ClH and ClD	270	Normalized free energy difference for DI and TI	271

FIGURE 1. *The molecular hydrides included in this Monograph*

IA								
H 1	IIA	IB	IIB	IIIA	IVA	VA	VIA	VIIA
Li 2	Be 7			B 18	C 22	N 26	O 29	F 31
Na 3	Mg 8			Al 19	Si 23	P 27	S 30	Cl 32
K 4	Ca 9	Cu 12	Zn 15					Br 33
Rb 5	Sr 10	Ag 13	Cd 16	In 20	Sn 24			I 34
Cs 6	Ba 11	Au 14	Hg 17	Tl 21	Pb 25	Bi 28		

The numbers in this chart indicate the order of the tables.

Ideal Gas Thermodynamic Functions and Isotope Exchange Functions for the Diatomic Hydrides, Deuterides, and Tritides

Lester Haar, Abraham S. Friedman, and Charles W. Beckett

This Monograph contains a consistent set of tables of thermodynamic properties of a large number of diatomic hydrides, deuterides, and tritides, for the ideal gas state at one atmosphere pressure. In addition to the thermodynamic properties of the molecular gases, the tables also include thermodynamic properties for chemical reactions involving the isotopic exchange of hydrogen. The thermodynamic properties tabulated are the heat capacity, enthalpy, Gibbs free energy, and entropy.

Introduction

This Monograph contains a consistent set of tables of thermodynamic properties of a large number of diatomic hydrides, deuterides, and tritides, for the ideal gas state and at a pressure of one atmosphere. The entries are tabulated at close intervals for a wide temperature range (from 50 to 5,000 °K in most cases). In addition to the thermodynamic properties of the molecular gases, the tables also include thermodynamic properties for chemical reactions involving the isotopic exchange of hydrogen. The tables are obtained from statistical calculations based on the internal vibrational and rotational structure of the individual molecules, and the calculations apply to the ideal gas under a pressure of one atmosphere. The large number of molecular species and the density of the tabulated values suggested the use of high speed machine techniques for the detailed statistical calculations, and, by use of the National Bureau of Standards Electronic Automatic Computer (SEAC), a great amount of labor was saved. The thermodynamic properties tabulated are the heat capacity, enthalpy, Gibbs free energy, and entropy. The hydrides included in this Monograph are indicated in the abbreviated periodic table given in figure 1, and the numbers indicate the order of the tables. For each element listed in figure 1, there is a complete set of tables for the ideal gas molecular properties for the hydride, deuteride, and tritide, together with thermodynamic data for the isotopic hydrogen exchange reactions.

Molecular Constants

Table 1 lists the molecular constants from which thermodynamic functions have been calculated. These constants were obtained from the data reported in the literature up to the end of August 1958. In this list extensive use was made of the selected list of constants tabulated by Herzberg [1],¹ and, except where otherwise noted, the constants

in table 1 were obtained from this source. In some cases the reference [1] data were used even when more recent spectroscopic data were available, the criteria for selection being whether the more recent data would result in significant differences in calculated thermodynamic properties.

The usual notation for the molecular constants is employed, in which the molecular rotational and vibrational energies are represented by polynomials in the quantum numbers. A two-constant expression was used for the vibrational energy; for those molecules where more extensive molecular data were available, these were refitted to two-constant expressions. The fundamental vibrational frequency ν in wave numbers and the first order anharmonic constant $\omega_e X_e/\nu$ as used here are defined by the equations

$$G(V) = \omega_e \left(V + \frac{1}{2} \right) - \omega_e X_e \left(V + \frac{1}{2} \right)^2 \text{ cm}^{-1}$$

$$\nu = G(1) - G(0) = \omega_e - 2\omega_e X_e \text{ cm}^{-1},$$

where $G(V)$ is the vibrational energy for the vibrational quantum integer V , and $G(0)$ is the zero point vibrational energy. Note that the tabulated values for ν and $G(0)$ were calculated using the complete set of vibrational data available for each molecule. The rotational constant B_0 in wave numbers, the stretching constant ρ in reciprocal degrees, and the dimensionless rotation-vibration interaction constant δ , are defined by the following equations:

$$F(J) = B_e J(J+1) - DJ^2(J+1)^2 \text{ cm}^{-1}$$

$$B_e = B_e \left[1 - \delta \left(V + \frac{1}{2} \right) + \dots \right] \text{ cm}^{-1}$$

$$B_0 = B_e (1 - \delta/2), \text{ where } \delta = \frac{\alpha_e}{B_e}$$

$$\rho = \frac{2k}{hc} \frac{D}{B_0^2} \text{ } ^\circ\text{K}^{-1},$$

¹ Figures in brackets indicate the literature references on page 6.

where $F(J)$ here is the rotational energy in wave numbers for molecules with $^1\Sigma$ electronic ground states, and where J is the rotational quantum integer.

Also treated in this Monograph are molecules with multiplet electronic ground states, including molecules with $^2\Sigma$, $^3\Sigma$, and $^2\Pi$ states. The rotational energy for these includes the effect of a coupling between the nuclear rotational motion and the angular momentum and spin of the electrons, and as a consequence of this coupling the rotational levels are split. This splitting is somewhat complicated when it is nearly equal in magnitude to the rotational quantization, which occurs for most of the $^2\Pi$ state molecules we treat. A description of the rotational energy for $^2\Pi$ state molecules has been given by Hill and Van Vleck [2] and is also discussed in reference [1]. As listed in reference [1], the energy expressions for the two rotational branches for these molecules are given by

$$F_1(J) = B_v \left\{ \left(J + \frac{1}{2} \right)^2 - 1 - \frac{1}{2} \left[4 \left(J + \frac{1}{2} \right)^2 + Y(Y-4) \right]^{1/2} \right\} - D_v J^4 \text{ cm}^{-1}$$

$$F_2(J) = B_v \left\{ \left(J + \frac{1}{2} \right)^2 - 1 + \frac{1}{2} \left[4 \left(J + \frac{1}{2} \right)^2 + Y(Y-4) \right]^{1/2} \right\} - D_v (J+1)^4 \text{ cm}^{-1},$$

where $Y = A/B_v$, and where A is a measure of the electronic splitting and is listed in table 1. For the hydrides with $^2\Sigma$ and $^3\Sigma$ electronic ground states, the splitting of the rotational states is small, and it is adequate to employ the energy expressions for $^1\Sigma$ molecules with appropriate degeneracy factors.

The rotation-vibration energy is referred to the lowest energy state as zero of energy for the molecule. For $^1\Sigma$ molecules this is accomplished by subtracting $G(0)$, the zero point vibrational energy. For the species with multiplet ground states, in addition to $G(0)$, a small residual rotational energy must be subtracted also.

For many of the deuterated compounds and for all of the tritium substituted compounds except HT and T_2 , there are no experimental spectroscopic data of sufficient accuracy to use directly in the partition function. In these cases, therefore, the molecular data were calculated with the aid of isotope relations. That is, the relations $\omega'_e/\omega_e = (\mu/\mu')^{1/2}$, $\omega'_e X'_e/\omega_e X_e = \mu/\mu'$, $B'_e/B_e = \mu/\mu'$, $\delta'/\delta = (\mu/\mu')^{1/2}$, and $\rho = \rho'$ were used, where the primed quantities refer to the isotope whose molecular constants are to be calculated and the unprimed constants are those of the reference isotope; μ is the molecular reduced mass. In those cases where molecular data were available for both the protium and deuterium isotopic modifications, data for the

tritide were obtained by averaging the results from applying the isotope relations to each. For the six isotopic modifications of molecular hydrogen, molecular data were missing only for DT , and in this case molecular data were obtained by averaging the results from the other five modifications.

In several cases some of the data were not available for any of the isotopic species, and for these, the missing data were estimated empirically. For those lacking either a vibrational or rotational constant, the missing value was estimated by averaging the results from Badger's rule and the Morse-Clark relation, both of which are discussed in reference [1]. Those molecular species which did not have at least one experimentally obtained vibrational or rotational constant among their three isotopic modifications were not included in this Monograph. The anharmonicity constant $\omega_e X_e/\nu$ was found to be nearly the same for those hydrides of nearly equal reduced mass; this was also the case for the vibrational rotational coupling constant, δ . A missing rotational stretching constant, ρ , was estimated using the Morse potential function.

The chemical atomic weights used in the calculations of the translational partition functions were obtained from the values listed by Wichers [3]. The isotopic masses used in the calculation of the molecular constants are the values listed by Matlack and Fluegge [4]. The translation contributions for the isotopic hydrogen molecules were calculated using the nuclear masses in reference [4] reduced by the ratio of the chemical [3] to physical mass. The values for the other physical constants employed are those listed in the National Bureau of Standards Circular 500 [5].

Thermodynamic Functions

The tabulated properties are derived in the usual manner from a partition function which is written

$$Q = \Sigma e^{-\epsilon_i/kT}, \quad (1)$$

where the ϵ_i refer to the molecular energy levels. Equation (1) is limited here to the rotational and vibrational levels of the electronic ground state and the molecular translational contributions. The ideal gas thermodynamic functions in dimensionless units are related to Q in the following way: The Gibbs free energy per mole per degree Kelvin is given by

$$-\left(\frac{F^\circ - E_0^\circ}{RT} \right) = \ln Q - \ln N,$$

where N is Avogadro's number.

The enthalpy per mole per degree Kelvin is

$$\left(\frac{H^\circ - E_0^\circ}{RT} \right) = -\frac{d \ln Q}{d(1/T)}.$$

The constant pressure heat capacity per mole is

$$\frac{C_p^\circ}{R} = \frac{d}{dT} \left(\frac{H^\circ - E_0^\circ}{R} \right).$$

The entropy per mole is

$$\frac{S^\circ}{R} = \frac{H^\circ - E_0^\circ}{RT} - \frac{F^\circ - E_0^\circ}{RT}.$$

The translational contribution to the partition function, eq (1), is evaluated in the usual way; see, for example, Mayer and Mayer [6]. The tedious task of performing the partition function summations for the rotational and vibrational contribution is considerably simplified by employing closed form approximations. These approximations include, in addition to the harmonic oscillator-rigid rotator contributions, first order contributions due to anharmonicity, rotation-vibration coupling, and rotational stretching, all of which increase with temperature. They also include low temperature quantum contributions due to the finite spacing of the rotational energy states. However, at very low temperatures the closed form approximations are not sufficiently accurate for the molecular hydrogen species and for these the term by term summation of the unexpanded partition function was employed in this temperature region.

Most of the species have $^1\Sigma$ electronic ground states. The closed form approximation employed for the molecular rotational and vibrational contribution to the partition function for these (except at the low temperatures for molecular hydrogen) may be written

$$Q_{\text{int}} = \frac{1}{\sigma_0} (1 - e^{-u})^{-1} \left(1 + \frac{\delta}{e^u - 1} \right) \left(1 + \frac{2\theta}{(e^u - 1)^2} \right) (1 + \rho T) \left(1 + \frac{\sigma_0}{3} + \frac{\sigma_0^2}{15} + \frac{4\sigma_0^3}{315} \right), \quad (2)$$

where σ_0 and u are the rotational and vibrational fundamentals in dimensionless units, $\sigma_0 = \frac{hc}{kT} B_0$,

$u = \frac{hc}{kT} \nu$, and $\theta = \frac{hc}{kT} \omega_e X_e$. For the heteronuclear molecular hydrogen isotopes the factor

$$\frac{1}{\sigma_0} \left(1 + \frac{\sigma_0}{3} + \frac{\sigma_0^2}{15} + \frac{4}{315} \sigma_0^3 \right) (1 + \rho T)$$

is replaced at low temperatures by the unexpanded expression

$$Q_J \equiv \sum_J (2J+1) e^{-\frac{hc}{kT} F(J)}.$$

The procedure employed for the isotopic hydrides of carbon, silicon, oxygen, and sulfur, which have $^2\Pi$ electronic ground states, is given by Haar and

Friedman [7], where the somewhat complicated rotational contribution is obtained as a power series expansion in σ_0 and Y . For the remaining $^2\Pi$ hydrides, those containing Sn and Pb, the ground state splitting is comparatively large, with a consequent smaller coupling between the electronic and molecular rotational motion. For these it was adequate to employ the partition function for $^1\Sigma$ molecules, with the splitting accounted for by the factor

$$2(1 + e^{-(hc/kT)(A-2B_0)}).$$

For the species with $^2\Sigma$ and $^3\Sigma$ ground states, the treatment is identical with that for $^1\Sigma$ molecules, except that the rotational energy includes the appropriate degeneracy factors. For $^2\Sigma$ molecules, the degeneracy factor is two, and for $^3\Sigma$ molecules, it is three.

The homonuclear molecular species, H_2 , D_2 , and T_2 exist in both ortho and para modifications. The normal composition corresponds to a weighted average of the contributions of these two non-interacting modifications. For H_2 and T_2 the ortho and para modifications are weighted 3/4 and 1/4, respectively, and for D_2 , 2/3 and 1/3, respectively. Writing

$$Q_{J(\text{odd})} \equiv \sum_{J(\text{odd values})} (2J+1) e^{-\frac{hc}{kT} F(J)}$$

and

$$Q_{J(\text{even})} \equiv \sum_{J(\text{even values})} (2J+1) e^{-\frac{hc}{kT} F(J)},$$

the rotational contribution to the partition functions for the normal mixtures are given by

$$Q_J = (Q_{J(\text{odd})})^{3/4} (Q_{J(\text{even})})^{1/4} \text{ for } H_2 \text{ and } T_2,$$

$$Q_J = (Q_{J(\text{odd})})^{1/3} (Q_{J(\text{even})})^{2/3} \text{ for } D_2.$$

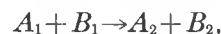
Should a catalyst be present the two modifications would interact to yield the equilibrium composition. The equilibrium expressions for Q_J are given by

$$Q_J = \frac{3}{4} Q_{J(\text{odd})} + \frac{1}{4} Q_{J(\text{even})} \text{ for } H_2 \text{ and } T_2,$$

$$Q_J = \frac{1}{3} Q_{J(\text{odd})} + \frac{2}{3} Q_{J(\text{even})} \text{ for } D_2.$$

Isotope Exchange Reactions

The equilibrium constants and thermodynamic functions for isotopic exchange reactions involving the diatomic hydrides can be derived readily from the data of table 2. The equilibrium constant for the isotope exchange reaction



where molecule A_1 differs from A_2 and B_1 from B_2 by the isotope of hydrogen involved, is given by

$$K = \frac{Q_{A_2} \times Q_{B_2}}{Q_{A_1} \times Q_{B_1}}$$

The equilibrium constant is related to the change in the Gibbs free energy for the reaction by

$$\frac{\Delta F^\circ}{RT} = -\ln K.$$

The change in free energy for the reaction may be written in terms of the half-reactions $A_1 \rightarrow A_2$ $B_1 \rightarrow B_2$. Thus,

$$\frac{\Delta F^\circ}{RT} = \left(\frac{\Delta F^\circ}{RT} \right)_{A_1 \rightarrow A_2} + \left(\frac{\Delta F^\circ}{RT} \right)_{B_1 \rightarrow B_2},$$

where

$$\begin{aligned} \left(\frac{\Delta F^\circ}{RT} \right)_{A_1 \rightarrow A_2} &= \left(\frac{F^\circ - E_0^\circ}{RT} \right)_{A_2} \\ &\quad - \left(\frac{F^\circ - E_0^\circ}{RT} \right)_{A_1} + \frac{(\epsilon_0)_{A_2} - (\epsilon_0)_{A_1}}{kT} \\ &= \frac{F_{A_2}^\circ - F_{A_1}^\circ}{RT}, \end{aligned} \quad (3)$$

and

$$\left(\frac{\Delta F^\circ}{RT} \right)_{B_1 \rightarrow B_2} = \frac{F_{B_2}^\circ - F_{B_1}^\circ}{RT},$$

respectively, where ϵ_0 is the zero point energy ($\epsilon_0 = hcG(0)$). The changes in the enthalpy, heat capacity, and entropy for the half-reaction $A_1 \rightarrow A_2$ are given by

$$\left(\frac{\Delta H^\circ}{RT} \right)_{A_1 \rightarrow A_2} = \frac{H_{A_2}^\circ - H_{A_1}^\circ}{RT} \quad (4)$$

$$\left(\frac{\Delta C_p^\circ}{R} \right)_{A_1 \rightarrow A_2} = \frac{C_{pA_2}^\circ - C_{pA_1}^\circ}{R} \quad (5)$$

$$\left(\frac{\Delta S^\circ}{R} \right)_{A_1 \rightarrow A_2} = \left\{ \frac{H_{A_2}^\circ - F_{A_2}^\circ}{RT} - \frac{H_{A_1}^\circ - F_{A_1}^\circ}{RT} \right\} \quad (6)$$

and similarly for the half-reaction $B_1 \rightarrow B_2$.

Another property of the half-reaction of some interest is

$$\left(\frac{\Delta \mathcal{F}^\circ}{RT} \right)_{A_1 \rightarrow A_2} = \left(\frac{\Delta F^\circ}{RT} \right)_{A_1 \rightarrow A_2} - \ln \frac{S_{A_2}}{S_{A_1}} + \frac{3}{2} \ln \frac{m_{A_2}}{m_{A_1}} \quad (7)$$

where S_{A_2} is the symmetry number of the molecule A_2 , and m_{A_2} the mass of the hydrogen isotope; similarly, for S_{A_1} and m_{A_1} of molecule A_1 . $\Delta \mathcal{F}^\circ/RT$ is the free energy difference less the effect of the mass difference on the classical contributions to

the free energy of rigid rotation, harmonic oscillation, and translation, and less the contributions of molecular symmetry, so that it is a measure of the quantum mechanical contribution to the free energy difference of the half-reaction.² It is analogous to the quantity tabulated by Bigeleisen and Mayer [8].

Tables

The thermodynamic properties are all tabulated in dimensionless units and refer to the ideal gas at a pressure of one atmosphere. In all cases, the entropy of nuclear spin is omitted, though as discussed in the text the effect of the low temperature spin weighting of the rotational states for the homonuclear hydrogen molecules is included. Many of the elements (other than hydrogen) have isotopic modifications, and the thermal functions are calculated for the naturally occurring mixture of these. In all cases the entropy due to isotope mixing is omitted.

The ideal gas heat capacity, enthalpy, Gibbs free energy, and entropy are tabulated in table 2 at closely spaced temperature intervals. In most cases the tables extend from 50 to 5000 °K. The molecular hydrogen group extends at the low temperature to 10 °K. Table 3 contains the free energy difference for the half-reactions defined by eqs (3, 4, 5, 6). Table 4 includes the quantity $\Delta \mathcal{F}/RT$ defined by eq (7). Tables 3 and 4 are somewhat more abbreviated than table 2 and the entries are tabulated, in most cases, from 100 to 5000 °K.

The thermodynamic functions in table 2 for the species H_2 , D_2 , and T_2 are tabulated for the normal and equilibrium modifications and also for para H_2 and T_2 , and ortho D_2 . The last group would apply to the low temperature gas where the molecular states having odd rotational quantum integers have been frozen out. Since significant differences between the contributions per mole of the normal and equilibrium modifications exist only at the low temperatures, it is sufficient to include separate tables only at the low temperatures for the equilibrium modifications. The tabulated values involving H_2 , D_2 , and T_2 in tables 3 and 4 refer only to the normal modifications.

Estimated Uncertainties

The accuracy of table 2 up to temperatures of about 100 °K depends primarily on the accuracy of the rotational and vibrational fundamentals. At higher temperatures the tables are sensitive to the values of the first order corrections for anharmonicity, vibration-rotation coupling and rotational stretching (all of which were included

² Thus, in the partition function for the molecular isotope HX , the mass appears in the translational contribution as the factor $(m_H + m_X)^{3/2}$. It appears in the rotational contribution as the reduced mass factor μ , and finally, on expanding the harmonic oscillator vibrational factor for high temperatures, it appears as the factor $\mu^{1/2}$. Combining these, and deleting this quantity together with the molecular symmetry from the free energy differences between isotopes leads to eq (7).

in this treatment), and at the very highest temperatures, to second order rotational and vibrational corrections, not included in this treatment. In addition, since only the ground electronic states were included, table 2 for those species having low-lying excited electronic states such as BiH, BiD, and BiT have additional large uncertainties at the high temperatures. (See footnote on page 8 below table 1 on BiH, BiD, and BiT.)

The electronic structure is nearly identical for isotopic molecules, so that tables 3 and 4 which contain *differences* between the thermal functions for isotopes should not be significantly affected by the omission of the excited electronic states. The tables primarily are sensitive to vibrational and rotational quantum effects, so that higher order ground state corrections should also cancel. Tables 3 and 4 thus are sensitive primarily to the vibrational fundamental (and, at low temperatures, somewhat to the rotational fundamental), and at the very high temperatures to the anharmonicity of the vibrations.

The approximations used in the statistical method lead to an uncertainty in the thermodynamic functions (table 2) in the third place to the right of the decimal below 1000 °K, provided the uncertainty in the values used for the rotational and vibrational fundamentals do not exceed 1 percent. In nearly all cases, experimentally determined values are more accurate than 1 percent. In the few cases where the fundamentals were estimated (empirically) they could be in error by as much as 5 percent and the uncertainty in the thermodynamic functions might then extend to the second digit to the right of the decimal: at the very low temperatures, if the rotational fundamental were estimated; or at temperatures above 500 °K, if the estimate were made in the vibrational fundamental. The isotope relations employed for calculating the molecular constants of the deuterides and tritides should not contribute significantly to the uncertainties, so that the same error estimates should apply for all three isotopic modifications. At higher temperatures the uncertainty due to neglected higher order terms in the energy level expressions and the omission of the effect of some sort of rotational cut-off (see ref. [9] for a procedure for including this effect) is somewhat larger, perhaps extending to the second or even the first place to the right of the decimal. (The group IIB hydrides ZnH, CdH, HgH, all have shallow potential energy wells—less than 1 ev in depth. Thus for these, the high temperature calculations have even larger uncertainties. Tables 3 and 4 for this group are therefore abbreviated at the higher temperatures).³ In most

instances the internal consistency of the tables is such that differences between the thermal functions of isotopic species are significant to the fourth (or fifth) figure to the right of the decimal (particularly for the heat capacity and entropy differences). The contributions of excited electronic states omitted from these calculations depend largely upon their excitation energies. A simple method for estimating their contribution is given by Beckett and Haar [9].

The free energy (and enthalpy) differences in tables 3 and 4 are more sensitive to errors in the vibrational fundamental than table 2 through their dependence on the zero point energy. For instance, the uncertainty in the free energy differences may be about 0.1 percent if $G(0)$ is in error by about 5 percent.

The tabulated properties are given to five decimal places. This was done to facilitate their use in certain applications, such as in repeated operations involving small differences, where additional digits are needed to retain significance in the final result. As indicated earlier, up to 1000 °K, the entries at best are accurate to only the third or, possibly, the fourth decimal place, and at the higher temperatures, the uncertainty is appreciably greater.

We acknowledge the assistance of a number of members of the staff of the Thermodynamics Section and Applied Mathematics Laboratory; in particular, Dr. Harold W. Woolley, Dr. Irwin Oppenheim, and Mr. Joseph Hilsenrath for helpful advice and discussions; Messrs. John Park, Joe C. Bradley, and Charles M. Sommerfield for assistance in the assembly of the data; Mrs. Bertha H. Walter and Miss Mary M. Dunlap for performing many of the tedious desk calculations; Mrs. Ethel Marden and Mr. Peter O'Hara for programing the machine calculations, and Miss Hattie M. Napier for assistance in the preparation of the manuscript and tables.

Since the compilation of the bulk of the calculations on which these tables are based, two of the authors have left the National Bureau of Standards and carried on incidental calculations and manuscript preparation from their present positions. We wish, therefore, to thank CONVAIR, A Division of General Dynamics, with whom Mr. Haar is now associated, for making Mr. Lester Haar available for this task, and the U.S. Atomic Energy Commission, with whom Dr. Abraham S. Friedman is now associated. Thanks are also due to the Johns Hopkins University Applied Physics Laboratory for their cooperation during a period prior to 1959 when Mr. Haar was associated with that laboratory.

³ For these a virial treatment such as used in reference [9] might be more appropriate at the higher temperatures.

References

- [1] G. Herzberg, Molecular spectra and molecular structure. I. "Spectra of Diatomic Molecules." Second Edition (D. Van Nostrand Co., Inc., New York, N.Y., 1951).
- [2] E. L. Hill and J. H. Van Vleck, Phys. Rev. **32**, 250 (1923).
- [3] E. Wichers, J. Am. Chem. Soc. **74**, 2447 (1952).
- [4] J. Mattauch and S. Fluegge, Nuclear physics tables (Interscience Publishers, Inc., New York, N.Y., 1946).
- [5] F. D. Rossini, D. D. Wagman, W. H. Evans, S. Levine, and I. Jaffe, Selected values of chemical thermodynamic properties, NBS Circ. 500 (U.S. Government Printing Office, Washington, D.C., 1952).
- [6] J. E. Mayer and M. G. Mayer, Statistical mechanics (John Wiley & Sons, Inc., New York, N.Y., 1940).
- [7] L. Haar and A. S. Friedman, J. Chem. Phys. **23**, 869 (1955).
- [8] J. Bigeleisen and M. G. Mayer, J. Chem. Phys. **15**, 261 (1947).
- [9] C. W. Beckett and L. Haar, Proceedings of the Conference on Thermodynamic and Transport Properties of Fluids, London, pp. 27-33, Institution of Mechanical Engineers, London (1958).

TABLE 1. *Molecular constants*

Compound	ν	$\omega_e X_e/\nu$	δ	B_0	$\rho \times 10^5$	G(0)
H ₂ ¹ Σ	4160. 20	0. 0283	0. 0504	59. 319	1. 810	2168. 16
HD ¹ Σ	3631. 52	0. 0261	0. 0446	44. 669	1. 790	1884. 98
HT ¹ Σ	3433. 1	0. 0255	0. 0420	39. 7468	1. 802	1782. 2
D ₂ ¹ Σ	2993. 82	0. 0214	0. 0350	29. 905	1. 792	1543. 36
DT ¹ Σ	2744. 0	0. 0190	0. 0320	24. 970	1. 790	1413. 2
T ₂ ¹ Σ	2466. 1	0. 0178	0. 0296	20. 0300	1. 788	1265. 9
LiH ¹ Σ	1359. 78	0. 0171	0. 0288	7. 4067	1. 08	697. 05
LiD ¹ Σ	1029. 05	0. 0129	0. 0220	4. 1879	1. 08	524. 27
LiT ¹ Σ	889	0. 011	0. 019	3. 112	1. 08	452
NaH ¹ Σ	1133. 3	0. 0174	0. 0280	4. 8335	1. 96	581. 2
NaD ¹ Σ	826. 1	0. 0124	0. 0205	2. 5315	1. 96	420. 8
NaT ¹ Σ	691	0. 010	0. 017	1. 762	1. 96	351
KH ¹ Σ	955. 7	0. 0153	0. 0200	3. 373	1. 60	488. 8
KD ¹ Σ	690. 7	0. 0110	0. 0169	1. 6524	1. 60	351. 1
KT ¹ Σ	574	0. 0091	0. 014	1. 132	1. 60	291
RbH ¹ Σ	908. 71	0. 0156	0. 0242	2. 984	1. 90	464. 86
RbD ¹ Σ	652	0. 0110	0. 017	1. 516	1. 90	331
RbT ¹ Σ	538	0. 0090	0. 014	1. 025	1. 90	273
CsH ¹ Σ	865. 5	0. 0146	0. 0213	2. 680	1. 94	442. 2
CsD ¹ Σ	620	0. 010	0. 015	1. 356	1. 94	315
CsT ¹ Σ	510	0. 008	0. 012	0. 913	1. 94	258
CuH ¹ Σ ⁺	1866. 4	0. 0198	0. 0319	7. 813	1. 18	961. 0
CuD ¹ Σ ⁺	1346. 2	0. 0142	0. 0229	3. 992	1. 18	687. 4
CuT ¹ Σ ⁺	1114	0. 012	0. 019	2. 710	1. 18	563
AgH ¹ Σ ⁺	1691. 9	0. 0202	0. 0554	6. 279	1. 20	871. 5
AgD ¹ Σ ⁺	1216	0. 015	0. 0227	3. 223	1. 20	621
AgT ¹ Σ ⁺	1004	0. 012	0. 019	2. 17	1. 20	511
AuH ¹ Σ ⁺	2218. 8	0. 0195	0. 0299	7. 1333	0. 76	1141. 7
AuD ¹ Σ ⁺	1591. 6	0. 0136	0. 0211	3. 6034	0. 76	812. 1
AuT ¹ Σ ⁺	1310	0. 011	0. 0085	2. 43	0. 76	666
BeH ² Σ	1986. 0	0. 0179	0. 0295	10. 158	1. 32	1020. 4
BeD ² Σ	1488	0. 013	0. 022	5. 62	1. 32	759
BeT ² Σ	1275	0. 011	0. 019	4. 10	1. 32	648
MgH ² Σ	1432. 2	0. 0220	0. 0291	5. 7329	1. 39	740. 0
MgD ² Σ	1045. 6	0. 0154	0. 0218	2. 9980	1. 39	534. 9
MgT ² Σ	875	0. 013	0. 018	2. 080	1. 39	446
CaH ² Σ	1260	0. 0155	0. 0228	4. 2297	1. 43	645
CaD ² Σ	910	0. 011	0. 0161	2. 178	1. 43	463
CaT ² Σ	755	0. 009	0. 013	1. 489	1. 43	383
SrH ² Σ	1172. 2	0. 0145	0. 0223	3. 6344	1. 42	598. 9
SrD ² Σ	841	0. 010	0. 0158	1. 8463	1. 42	427
SrT ² Σ	694	0. 008	0. 013	1. 248	1. 42	351

TABLE 1. *Molecular constants*—Continued

Compound	ν	$\omega_e X_e/\nu$	δ	B_0	$\rho \times 10^5$	$G(0)$
BaH $^2\Sigma$	1140	0.0140	0.0196	3.3496	1.39	582
BaD $^2\Sigma$	816	0.0098	0.014	1.6931	1.39	414
BaT $^2\Sigma$	671	0.0080	0.011	1.140	1.39	340
ZnH $^2\Sigma^+$	1496.4	0.0398	0.0463	6.5460	1.52	793.0
ZnD $^2\Sigma^+$	1091	0.027	0.033	3.3497	1.52	568
ZnT $^2\Sigma^+$	907	0.022	0.027	2.28	1.52	469
CdH $^2\Sigma^+$	1338.1	0.0346	0.0769	5.304	1.56	703.8
CdD $^2\Sigma^+$	970	0.024	0.0621	2.704	1.56	502
CdT $^2\Sigma^+$	803	0.019	0.050	1.83	1.56	413
HgH $^2\Sigma^+$	1203.54	0.099	0.0918	5.374	1.81	672.32
HgD $^2\Sigma^+$	896.00	0.059	0.0523	2.7386	1.67	485.20
HgT $^2\Sigma^+$	750	0.047	0.043	1.85	1.67	402
BH $^1\Sigma^+$	2268	0.022	0.0347	11.812	1.2	1171
BD $^1\Sigma^+$	1726	0.016	0.0258	6.449	1.2	883
BT $^1\Sigma^+$	1441	0.013	0.022	4.65	1.2	735
AlH $^1\Sigma^+$	1625.2	0.0170	0.0302	6.302	1.3	834.1
AlD $^1\Sigma^+$	1181.9	0.0124	0.0213	3.2838	1.3	602.2
AlT $^1\Sigma^+$	986	0.010	0.018	3.27	1.3	501
InH $^1\Sigma^+$	1425.8	0.0168	0.0287	4.9239	1.3	730.9
InD $^1\Sigma^+$	1023	0.012	0.020	2.50	1.3	521
InT $^1\Sigma^+$	843	0.010	0.017	1.68	1.3	428
TlH $^1\Sigma^+$	1345.3	0.0169	0.0306	4.730	2.0	689.7
TlD $^1\Sigma^+$	963	0.012	0.022	3.90	2.0	490
TlT $^1\Sigma^+$	792	0.010	0.017	1.61	2.0	402

Compound	ν	$\omega_e X_e/\nu$	δ	B_0	$\rho \times 10^5$	A	$G(0)$
CH $^2\pi$	2733.0	0.0236	0.0374	14.190	1.90	27.95	1414.7
CD $^2\pi$	2031.6	0.0171	0.0273	7.702	1.0	27.95	1041.8
CT $^2\pi$	1728.6	0.015	0.024	5.51	1.0	27.95	882
^a SiH $^2\pi_r$	1971.13	0.0181	0.028	7.389	1.0	142	1012.52
SiD $^2\pi_r$	1432.8	0.0129	0.020	3.842	1.0	142	730.2
SiT $^2\pi_r$	1197.7	0.011	0.017	2.65	1.0	142	608.7
SnH $^2\pi_r$	1580	0.020	0.029	5.293	0.96	2182.7	^b 790
SnD $^2\pi_r$	1120	0.014	0.021	2.68	0.96	2182.7	^b 561
SnT $^2\pi_r$	920	0.012	0.017	1.81	0.96	2182.7	^b 461
PbH $^2\pi$	1504.6	0.0198	0.0294	4.899	1.2	8200	774.6
PbD $^2\pi$	1079	0.014	0.021	2.47	1.2	8200	551
PbT $^2\pi$	888	0.012	0.017	1.66	1.2	8200	452

Compound	ν	$\omega_e X_e/\nu$	δ	B_0	$\rho \times 10^5$	$G(0)$
NH $^3\Sigma^-$	^c 3109	^c 0.0252	0.0384	16.33	0.87	1613.4
ND $^3\Sigma^-$	2302.2	0.0181	0.0281	8.77	0.87	1182.5
NT $^3\Sigma^-$	1951	0.0152	0.0238	6.23	0.87	998.0
PH $^3\Sigma^-$	2310	0.0152	0.0220	8.41	0.83	1150
PD $^3\Sigma^-$	1660	0.0150	0.0214	4.36	0.83	820
PT $^3\Sigma^-$	1380	0.0144	0.0200	2.99	0.83	690
^d BiH	1635.7	0.0193	0.0292	5.063	1.02	841.6
^d BiD	1173.3	0.0137	0.021	2.565	1.02	598.7
^d BiT	965.0	0.0110	0.017	1.719	1.02	491.0

TABLE 1. *Molecular constants*—Continued

Compound	ν	$\omega_e X_e/\nu$	δ	B_0	$\rho \times 10^5$	A	$G(0)$
OH $^2\pi$	3569. 6	0. 0232	0. 0384	18. 514	0. 76	—139. 7	1846. 9
OD $^2\pi$	2632. 5	0. 0168	0. 0304	9. 868	0. 76	—139. 7	1349. 4
OT $^2\pi$	2221	0. 014	0. 023	6. 97	0. 76	—139. 7	1134
e SH $^2\pi$	2582	0. 0232	0. 0317	9. 461	0. 75	—376. 96	1336
SD $^2\pi$	1878	0. 017	0. 0225	4. 900	0. 75	—376. 96	962
ST $^2\pi$	1567	0. 014	0. 019	3. 40	0. 75	—376. 96	799

Compound	ν	$\omega_e X_e/\nu$	B_0	δ	$\rho \times 10^5$	$G(0)$
HF $^1\Sigma$	3961. 42	0. 0218	20. 555	0. 0365	0. 73	2046. 9
DF $^1\Sigma$	2906. 84	0. 0157	10. 860	0. 0264	0. 73	1488. 4
TF $^1\Sigma$	2444	0. 0135	7. 613	0. 022	0. 73	1246
HCl $^1\Sigma$	2885. 9	0. 0180	10. 4400	0. 0287	0. 68	1481. 9
DCl $^1\Sigma$	2090. 4	0. 0128	5. 390	0. 0204	0. 68	1065. 2
TCl $^1\Sigma$	1738	0. 0105	3. 70	0. 016	0. 68	883
HBr $^1\Sigma$	2559. 3	0. 0177	8. 35	0. 0271	0. 74	1313. 5
DBr $^1\Sigma$	1840. 3	0. 0124	4. 25	0. 0191	0. 74	937. 3
TBr $^1\Sigma$	1520	0. 0102	2. 87	0. 0157	0. 74	771
HI $^1\Sigma$	2230. 1	0. 0178	6. 46	0. 0274	0. 70	1144. 8
DI $^1\Sigma$	1600. 1	0. 0125	3. 27	0. 0182	0. 70	815. 1
TI $^1\Sigma$	1318	0. 0102	2. 20	0. 0180	0. 70	669

^a A. E. Douglas, Can. J. Phys. **35**, 71 (1957).^b Taken as one-half the estimated fundamental.^c Vibrational data from Pannetier and Gaydon, J. chim. phys. **48**, 221 (1951).^d The lowest state is a singlet state, O*, Herzberg [1], and the tables are computed for this state. An excited doublet state at 4923 cm⁻¹ occurs but is not included in the thermal functions. If this doublet state were included in the thermal functions, it would give a factor of

$$Q_e = 1 + 2e^{-7052/T}$$

in the partition function of all three isotopic species (BiH, BiD, BiT) to a very close approximation.

^e Molecular constants by Ramsey, J. Chem. Phys. **20**, 1920 (1952). A force constant has since been reported by Leach, J. Chem. Phys. **22**, 1261 (1954), which is in good agreement, within 0.1 percent, of that obtained by Ramsey.^f Data from Talley, Kaylor, Nielson, Phys. Rev. **77**, 529 (1950).

Table 2.001. H₂ - Normal Mixture

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.50000		15.28092	-639052	-8.81350	812331	6.46742	173285
20	2.50000	2	8.89040	-213009	-6.9019	314381	8.20027	101366
30	2.50002	57	6.76031	-106503	2.45362	178427	9.21393	71924
40	2.50059	429	5.69528	-63862	4.23789	119695	9.93317	55833
50	2.50488	1380	5.05666	-42432	5.43484	88204	10.49150	45772
60	2.51868	2810	4.63234	-30013	6.31688	69029	10.94922	39016
70	2.54678	4363	4.33221	-22061	7.00717	56337	11.33938	34276
80	2.59041	5705	4.11160	-16596	7.57054	47424	11.68214	30828
90	2.64746	6642	3.94564	-12655	8.04478	40887	11.99042	28232
100	2.71388	7124	3.81909	-9726	8.45365	35923	12.27274	26197
110	2.78512	7203	3.72183	-7505	8.81288	32048	12.53471	24543
120	2.85715	6982	3.64678	-5803	9.13336	28950	12.78014	23147
130	2.92697	6571	3.58875	-4490	9.42286	26425	13.01161	21935
140	2.99268	6064	3.54385	-3469	9.68711	24326	13.23096	20857
150	3.05332	5528	3.50916	-2674	9.93037	22558	13.43953	19884
160	3.10860	5000	3.48242	-2049	10.15595	21048	13.63837	18999
170	3.15860	4500	3.46193	-1558	10.36643	19741	13.82836	18183
180	3.20360	4034	3.44635	-1170	10.56384	18601	14.01019	17431
190	3.24394	3604	3.43465	-861	10.74985	17594	14.18450	16733
200	3.27998	3208	3.42604	-618	10.92579	16700	14.35183	16082
210	3.31206	2842	3.41986	-424	11.09279	15899	14.51265	15475
220	3.34048	2507	3.41562	-271	11.25178	15176	14.66740	14905
230	3.36555	2199	3.41291	-151	11.40354	14521	14.81645	14370
240	3.38754	1919	3.41140	-56	11.54875	13925	14.96015	13869
250	3.40673	1666	3.41084	17	11.68800	13378	15.09884	13395
260	3.42339	1439	3.41101	73	11.82178	12874	15.23279	12947
270	3.43778	1238	3.41174	116	11.95052	12409	15.36226	12525
280	3.45016	1058	3.41290	147	12.07461	11979	15.48751	12126
290	3.46074	903	3.41437	170	12.19440	11579	15.60877	11749
300	3.46977	767	3.41607	186	12.31019	11204	15.72626	11390
310	3.47744	650	3.41793	197	12.42223	10854	15.84016	11051
320	3.48394	550	3.41990	202	12.53077	10527	15.95067	10729
330	3.48944	464	3.42192	206	12.63604	10218	16.05796	10424
340	3.49408	391	3.42398	206	12.73822	9928	16.16220	10134
350	3.49799	330	3.42604	204	12.83750	9655	16.26354	9859
360	3.50129	280	3.42808	202	12.93405	9394	16.36213	9596
370	3.50409	236	3.43010	198	13.02799	9151	16.45809	9349
380	3.50645	201	3.43208	193	13.11950	8917	16.55158	9110
390	3.50846	171	3.43401	189	13.20867	8696	16.64268	8885
400	3.51017	567	3.43590	860	13.29563	40521	16.73153	41381
450	3.51584	332	3.44450	731	13.70084	36330	17.14534	37061
500	3.51916	332	3.45181	613	14.06414	32953	17.51595	33567
550	3.52248	424	3.45794	541	14.39367	30126	17.85162	30567
600	3.52672	572	3.46335	508	14.69493	27742	18.15829	28250
650	3.53244	768	3.46843	484	14.97235	25722	18.44079	26206
700	3.54012	973	3.47327	477	15.22957	23979	18.70285	24456
750	3.54985	1198	3.47804	485	15.46936	22463	18.94741	22947
800	3.56183	1421	3.48289	505	15.69399	21130	19.17688	21635
850	3.57604	1637	3.48794	534	15.90529	19951	19.39323	20485
900	3.59241	1835	3.49328	569	16.10480	18902	19.59808	19472
950	3.61076	2013	3.49897	609	16.29382	17963	19.79280	18571
1000	3.63089	2166	3.50506	650	16.47345	17117	19.97851	17767
1050	3.65255	2293	3.51156	693	16.64462	16351	20.15618	17044
1100	3.67548	2396	3.51849	734	16.80813	15657	20.32662	16391
1150	3.69944	2473	3.52583	775	16.96470	15022	20.49053	15797

Table 2.001. H₂ - Normal Mixture (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.72417	5096	3.53358	1661	17.11492	28348	20.64850	30009
1300	3.77513	5168	3.55019	1791	17.39840	26375	20.94859	28166
1400	3.82681	5127	3.56810	1896	17.66215	24681	21.23025	26578
1500	3.87808	5001	3.58706	1976	17.90896	23213	21.49603	25189
1600	3.92809	4821	3.60682	2033	18.14109	21927	21.74792	23960
1700	3.97630	4609	3.62715	2068	18.36036	20791	21.98752	22859
1800	4.02239	4378	3.64783	2088	18.56827	19779	22.21611	21866
1900	4.06617	4143	3.66871	2092	18.76606	18871	22.43477	20963
2000	4.10760	3908	3.68963	2084	18.95477	18052	22.64440	20137
2100	4.14668	3682	3.71047	2067	19.13529	17309	22.84577	19376
2200	4.18350	3465	3.73114	2043	19.30838	16631	23.03953	18674
2300	4.21815	3261	3.75157	2013	19.47469	16009	23.22627	18022
2400	4.25076	3070	3.77170	1978	19.63478	15437	23.40649	17415
2500	4.28146	2892	3.79148	1941	19.78915	14909	23.58064	16849
2600	4.31038	2728	3.81089	1901	19.93824	14418	23.74913	16319
2700	4.33766	2575	3.82990	1860	20.08242	13962	23.91232	15822
2800	4.36341	2434	3.84850	1818	20.22204	13537	24.07054	15355
2900	4.38775	2305	3.86668	1775	20.35741	13139	24.22409	14914
3000	4.41080	4263	3.88443	3426	20.48880	25179	24.37323	28606
3200	4.45343	3858	3.91869	3260	20.74059	23856	24.65929	27116
3400	4.49201	3517	3.95129	3104	20.97915	22674	24.93045	25777
3600	4.52718	3225	3.98233	2953	21.20589	21611	25.18822	24565
3800	4.55943	2977	4.01186	2814	21.42200	20650	25.43387	23463
4000	4.58920	2765	4.04000	2681	21.62850	19777	25.66850	22459
4200	4.61685	2581	4.06681	2560	21.82627	18978	25.89309	21537
4400	4.64266	2423	4.09241	2446	22.01605	18246	26.10846	20692
4600	4.66689	2286	4.11687	2339	22.19851	17571	26.31538	19911
4800	4.68975	2165	4.14026	2242	22.37422	16947	26.51449	19189
5000	4.71140		4.16268		22.54369		26.70638	

Table 2.002. H₂ - Equilibrium Mixture

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.50010	12967	2.50001	1525	1.75717	173464	4.25718	174989
20	2.62977	80302	2.51526	15399	3.49181	104211	6.00707	119610
30	3.43279	88466	2.66925	31120	4.53392	80857	7.20317	111977
40	4.31745	24923	2.98045	30317	5.34249	69912	8.32294	100229
50	4.56668	-20811	3.28362	20008	6.04161	61806	9.32523	81814
60	4.35857	-32546	3.48370	10182	6.65967	54570	10.14337	64752
70	4.03311	-28666	3.58552	3732	7.20537	48176	10.79089	51908
80	3.74645	-21349	3.62284	120	7.68713	42702	11.30997	42822
90	3.53296	-14737	3.62404	-1697	8.11415	38105	11.73819	36408
100	3.38559	-9611	3.60707	-2484	8.49520	34266	12.10227	31782
110	3.28948	-5817	3.58223	-2704	8.83786	31054	12.42009	28350
120	3.23131	-3047	3.55519	-2624	9.14840	28351	12.70359	25727
130	3.20084	-1050	3.52895	-2391	9.43191	26063	12.96086	23672
140	3.19034	368	3.50504	-2092	9.69254	24109	13.19758	22017
150	3.19402	1340	3.48412	-1775	9.93363	22428	13.41775	20653
160	3.20742	1974	3.46637	-1468	10.15791	20969	13.62428	19501
170	3.22716	2346	3.45169	-1183	10.36760	19694	13.81929	18511
180	3.25062	2524	3.43986	-930	10.56454	18572	14.00440	17642
190	3.27586	2558	3.43056	-710	10.75026	17578	14.18082	16868
200	3.30144	2493	3.42346	-521	10.92604	16690	14.34950	16169
210	3.32637	2358	3.41825	-364	11.09294	15893	14.51119	15529
220	3.34995	2182	3.41461	-233	11.25187	15172	14.66648	14939
230	3.37177	1984	3.41228	-126	11.40359	14519	14.81587	14393
240	3.39161	1776	3.41102	-42	11.54878	13924	14.95980	13882
250	3.40937	1573	3.41060	26	11.68802	13377	15.09862	13403
260	3.42510	1379	3.41086	79	11.82179	12874	15.23265	12953
270	3.43889	1197	3.41165	119	11.95053	12408	15.36218	12527
280	3.45086	1034	3.41284	150	12.07461	11979	15.48745	12129
290	3.46120	886	3.41434	171	12.19440	11579	15.60874	11750
300	3.47006	757	3.41605	187	12.31019	11204	15.72624	11391
310	3.47763	643	3.41792	197	12.42223	10854	15.84015	11051
320	3.48406	545	3.41989	203	12.53077	10527	15.95066	10730
330	3.48951	461	3.42192	206	12.63604	10218	16.05796	10424
340	3.49412	390	3.42398	206	12.73822	9928	16.16220	10134
350	3.49802	329	3.42604	204	12.83750	9655	16.26354	9859
360	3.50131	279	3.42808	202	12.93405	9394	16.36213	9596
370	3.50410	236	3.43010	198	13.02799	9151	16.45809	9349
380	3.50646	200	3.43208	193	13.11950	8917	16.55158	9110
390	3.50846	171	3.43401	189	13.20867	8696	16.64268	8885
400	3.51017	567	3.43590	860	13.29563	40521	16.73153	41381
450	3.51584	327	3.44450	731	13.70084	36330	17.14534	37061
500	3.51911		3.45181		14.06414		17.51595	

Table 2.003. H₂ - Para (includes only the even numbered rotational states)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.50000		2.50000		1.75717	173285	4.25717	173285
20	2.50000	6	2.50000		3.49002	101366	5.99002	101366
30	2.50006	232	2.50000	19	4.50368	71920	7.00368	71939
40	2.50238	1705	2.50019	172	5.22288	55804	7.72307	55976
50	2.51943	5422	2.50191	677	5.78092	45663	8.28283	46340
60	2.57365	10758	2.50868	1630	6.23755	38779	8.74623	40409
70	2.68123	16005	2.52498	2905	6.62534	33891	9.15032	36796
80	2.84128	19662	2.55403	4260	6.96425	30314	9.51828	34574
90	3.03790	21020	2.59663	5462	7.26739	27631	9.86402	33093
100	3.24810	20137	2.65125	6355	7.54370	25561	10.19495	31916
110	3.44947	17544	2.71480	6876	7.79931	23915	10.51411	30791
120	3.62491	13965	2.78356	7034	8.03846	22557	10.82202	29591
130	3.76456	10072	2.85390	6887	8.26403	21404	11.11793	28291
140	3.86528	6372	2.92277	6515	8.47807	20389	11.40084	26904
150	3.92900	3182	2.98792	5997	8.68196	19479	11.66988	25476
160	3.96082	637	3.04789	5399	8.87675	18642	11.92464	24041
170	3.96719	- 1249	3.10188	4780	9.06317	17868	12.16505	22648
180	3.95470	- 2539	3.14968	4175	9.24185	17144	12.39153	21319
190	3.92931	- 3331	3.19143	3608	9.41329	16464	12.60472	20072
200	3.89600	- 3735	3.22751	3096	9.57793	15824	12.80544	18920
210	3.85865	- 3852	3.25847	2640	9.73617	15221	12.99464	17861
220	3.82013	- 3770	3.28487	2245	9.88838	14652	13.17325	16897
230	3.78243	- 3557	3.30732	1905	10.03490	14117	13.34222	16022
240	3.74686	- 3267	3.32637	1615	10.17607	13613	13.50244	15228
250	3.71419	- 2939	3.34252	1372	10.31220	13137	13.65472	14509
260	3.68480	- 2603	3.35624	1168	10.44357	12689	13.79981	13857
270	3.65877	- 2272	3.36792	997	10.57046	12266	13.93838	13263
280	3.63605	- 1963	3.37789	855	10.69312	11869	14.07101	12724
290	3.61642	- 1680	3.38644	738	10.81181	11494	14.19825	12232
300	3.59962	- 1425	3.39382	640	10.92675	11138	14.32057	11778
310	3.58537	- 1201	3.40022	560	11.03813	10804	14.43835	11364
320	3.57336	- 1005	3.40582	492	11.14617	10489	14.55199	10981
330	3.56331	- 835	3.41074	436	11.25106	10188	14.66180	10624
340	3.55496	- 691	3.41510	389	11.35294	9905	14.76804	10294
350	3.54805	- 568	3.41899	351	11.45199	9637	14.87098	9988
360	3.54237	- 464	3.42250	317	11.54836	9381	14.97086	9698
370	3.53773	- 377	3.42567	290	11.64217	9140	15.06784	9430
380	3.53396	- 304	3.42857	266	11.73357	8909	15.16214	9175
390	3.53092	- 243	3.43123	246	11.82266	8690	15.25389	8936
400	3.52849	- 613	3.43369	1012	11.90956	40505	15.34325	41517
450	3.52236	- 97	3.44381	778	12.31461	36325	15.75842	37103
500	3.52139		3.45159		12.67786		16.12945	

Table 2.004. D₂ - Normal Mixture

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.50000	142	5.36562	-143270	1.68258	316566	7.04820	173296
20	2.50142	4456	3.93292	- 47236	4.84824	149188	8.78116	101952
30	2.54598	17359	3.46056	- 20990	6.34012	96270	9.80068	75280
40	2.71957	27562	3.25066	- 7951	7.30282	71501	10.55348	63550
50	2.99519	27290	3.17115	- 589	8.01783	57686	11.18898	57097
60	3.26809	19747	3.16526	2989	8.59469	48989	11.75995	51978
70	3.46556	10916	3.19515	4146	9.08458	42932	12.27973	47078
80	3.57472	4226	3.23661	4040	9.51390	38359	12.75051	42399
90	3.61698	317	3.27701	3438	9.89749	34710	13.17450	38148
100	3.62015	- 1477	3.31139	2748	10.24459	31697	13.55598	34445
110	3.60538	- 2011	3.33887	2138	10.56156	29146	13.90043	31284
120	3.58527	- 1928	3.36025	1655	10.85302	26963	14.21327	28618
130	3.56599	- 1606	3.37680	1292	11.12265	25074	14.49945	26366
140	3.54993	- 1238	3.38972	1025	11.37339	23423	14.76311	24448
150	3.53755	- 909	3.39997	829	11.60762	21971	15.00759	22800
160	3.52846	- 643	3.40826	687	11.82733	20633	15.23559	21370
170	3.52203	- 442	3.41513	581	12.03416	19537	15.44929	20118
180	3.51761	- 294	3.42094	501	12.22953	18510	15.65047	19011
190	3.51467	- 190	3.42595	438	12.41463	17584	15.84058	18022
200	3.51277	- 118	3.43033	390	12.59047	16746	16.02080	17136
210	3.51159	- 67	3.43423	350	12.75793	15985	16.19216	16335
220	3.51092	- 34	3.43773	317	12.91778	15287	16.35551	15604
230	3.51058	- 11	3.44090	290	13.07065	14651	16.51155	14941
240	3.51047	5	3.44380	267	13.21716	14064	16.66096	14331
250	3.51052	15	3.44647	246	13.35780	13522	16.80427	13768
260	3.51067	22	3.44893	230	13.49302	13021	16.94195	13251
270	3.51089	26	3.45123	213	13.62323	12554	17.07446	12767
280	3.51115	30	3.45336	200	13.74877	12122	17.20213	12322
290	3.51145	32	3.45536	187	13.86999	11718	17.32535	11905
300	3.51177	23	3.45723	177	13.98717	11339	17.44440	11516
310	3.51200	17	3.45900	155	14.10056	11000	17.55956	11155
320	3.51217	33	3.46055	151	14.21056	10660	17.67111	10811
330	3.51250	48	3.46206	149	14.31716	10338	17.77922	10487
340	3.51298	51	3.46355	142	14.42054	10042	17.88409	10184
350	3.51349	57	3.46497	135	14.52096	9763	17.98593	9899
360	3.51406	62	3.46632	130	14.61859	9499	18.08492	9629
370	3.51468	69	3.46762	125	14.71358	9249	18.18121	9374
380	3.51537	77	3.46887	120	14.80607	9012	18.27495	9132
390	3.51614	84	3.47007	116	14.89619	8787	18.36627	8903
400	3.51698	579	3.47123	538	14.98406	40917	18.45530	41455
450	3.52277	909	3.47661	504	15.39323	36656	18.86985	37160
500	3.53186	1297	3.48165	512	15.75979	33208	19.24145	33719
550	3.54483	1726	3.48677	553	16.09187	30362	19.57864	30915
600	3.56209	2140	3.49230	616	16.39549	27977	19.88779	28594
650	3.58349	2514	3.49846	695	16.67526	25951	20.17373	26646
700	3.60863	2829	3.50541	781	16.93477	24211	20.44019	24992
750	3.63692	3077	3.51322	868	17.17688	22702	20.69011	23569
800	3.66769	3259	3.52190	953	17.40390	21379	20.92580	22333
850	3.70028	3378	3.53143	1031	17.61769	20214	21.14913	21245
900	3.73406	3444	3.54174	1103	17.81983	19179	21.36158	20281
950	3.76850	3461	3.55277	1165	18.01162	18252	21.56439	19418
1000	3.80311	3443	3.56442	1219	18.19414	17420	21.75857	18639
1050	3.83754	3394	3.57661	1263	18.36834	16668	21.94496	17931
1100	3.87148	3322	3.58924	1300	18.53502	15983	22.12427	17283
1150	3.90470	3233	3.60224	1328	18.69485	15359	22.29710	16687

Table 2.004. D₂ - Normal Mixture (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.93703	6159	3.61552	2713	18.84844	29047	22.46397	31759
1300	3.99862	5712	3.64265	2749	19.13891	27095	22.78156	29845
1400	4.05574	5258	3.67014	2749	19.40986	25415	23.08001	28163
1500	4.10832	4818	3.69763	2719	19.66401	23951	23.36164	26671
1600	4.15650	4408	3.72482	2671	19.90352	22662	23.62835	25333
1700	4.20058	4032	3.75153	2608	20.13014	21518	23.88168	24126
1800	4.24090	3691	3.77761	2537	20.34532	20493	24.12294	23029
1900	4.27781	3387	3.80298	2460	20.55025	19569	24.35323	22030
2000	4.31168	3115	3.82758	2381	20.74594	18733	24.57353	21113
2100	4.34283	2872	3.85139	2300	20.93327	17970	24.78466	20270
2200	4.37155	2657	3.87439	2220	21.11297	17272	24.98736	19492
2300	4.39812	2465	3.89659	2141	21.28569	16629	25.18228	18771
2400	4.42277	2295	3.91800	2066	21.45198	16036	25.36999	18102
2500	4.44572	2144	3.93866	1992	21.61234	15487	25.55101	17478
2600	4.46716	2008	3.95858	1921	21.76721	14976	25.72579	16898
2700	4.48724	1888	3.97779	1854	21.91697	14500	25.89477	16353
2800	4.50612	1780	3.99633	1789	22.06197	14055	26.05830	15844
2900	4.52392	1683	4.01422	1727	22.20252	13638	26.21674	15366
3000	4.54075	3112	4.03149	3282	22.33890	26125	26.37040	29406
3200	4.57187	2829	4.06431	3070	22.60015	24733	26.66446	27803
3400	4.60016	2595	4.09501	2879	22.84748	23489	26.94249	26368
3600	4.62611	2403	4.12380	2708	23.08237	22369	27.20617	25078
3800	4.65014	2241	4.15088	2553	23.30606	21357	27.45695	23909
4000	4.67255	2105	4.17641	2413	23.51963	20436	27.69604	22849
4200	4.69360	1990	4.20054	2287	23.72399	19594	27.92453	21881
4400	4.71350	1890	4.22341	2172	23.91993	18822	28.14334	20995
4600	4.73240	1806	4.24513	2068	24.10815	18111	28.35329	20179
4800	4.75046	1731	4.26581	1974	24.28926	17454	28.55508	19428
5000	4.76777		4.28555		24.46380		28.74936	

Table 2.005. D₂ - Equilibrium Mixture

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.52046	3433	2.50238	8365	3.77680	175277	6.27918	183642
20	2.86379	29125	2.58603	14669	5.52957	107630	8.11560	122299
30	3.15504	17882	2.73272	12864	6.60587	80430	9.33859	93294
40	3.33386	15788	2.86136	11070	7.41017	65065	10.27153	76135
50	3.49174	11732	2.97206	9713	8.06082	55066	11.03288	64779
60	3.60906	6158	3.06919	8217	8.61148	47949	11.68067	56166
70	3.67064	1522	3.15136	6625	9.09097	42530	12.24233	49155
80	3.68586	- 1325	3.21761	5148	9.51627	38208	12.73388	43356
90	3.67261	- 2624	3.26909	3910	9.89835	34656	13.16744	38566
100	3.64637	- 2918	3.30819	2941	10.24491	31676	13.55310	34617
110	3.61719	- 2679	3.33760	2216	10.56167	29139	13.89927	31355
120	3.59040	- 2224	3.35976	1685	10.85306	26961	14.21282	28646
130	3.56816	- 1733	3.37661	1304	11.12267	25073	14.49928	26377
140	3.55083	- 1292	3.38965	1029	11.37340	23422	14.76305	24451
150	3.53791	- 930	3.39994	832	11.60762	21971	15.00756	22803
160	3.52861	- 652	3.40826	687	11.82733	20683	15.23559	21370
170	3.52209	- 445	3.41513	581	12.03416	19537	15.44929	20118
180	3.51764	- 296	3.42094	501	12.22953	18510	15.65047	19011
190	3.51468	- 191	3.42595	438	12.41463	17584	15.84058	18022
200	3.51277	- 118	3.43033	390	12.59047	16746	16.02080	17136
210	3.51159	- 67	3.43423	350	12.75793	15985	16.19216	16335
220	3.51092	- 34	3.43773	317	12.91778	15287	16.35551	15604
230	3.51058	- 11	3.44090	290	13.07065	14651	16.51155	14941
240	3.51047	5	3.44380	267	13.21716	14064	16.66096	14331
250	3.51052	15	3.44647	246	13.35780	13522	16.80427	13768
260	3.51067	22	3.44893	230	13.49302	13021	16.94195	13251
270	3.51089	26	3.45123	213	13.62323	12554	17.07446	12767
280	3.51115	30	3.45336	200	13.74877	12122	17.20213	12322
290	3.51145	32	3.45536	187	13.86999	11718	17.32535	11905
300	3.51177		3.45723		13.98717		17.44440	

Table 2. 006. D₂- Ortho (includes only the even numbered rotational states)

$^{\circ}K$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.50000	212	2.50000	16	3.77652	173286	6.27652	173302
20	2.50212	6670	2.50016	786	5.50938	101459	8.00954	102245
30	2.56882	25751	2.50802	4308	6.52397	72622	9.03199	76930
40	2.82633	40304	2.55110	9402	7.25019	57847	9.80129	67249
50	3.22637	37847	2.64512	12973	7.82866	49339	10.47378	62312
60	3.60484	24790	2.77485	13809	8.32205	43816	11.09690	57625
70	3.85274	10393	2.91294	12531	8.76021	39737	11.67315	52268
80	3.95667	- 11	3.03825	10277	9.15758	36402	12.19583	46679
90	3.95656	- 5581	3.14102	7905	9.52160	33523	12.66262	41428
100	3.90075	- 7551	3.22007	5850	9.85683	30981	13.07690	36831
110	3.82524	- 7443	3.27857	4240	10.16664	28717	13.44521	32957
120	3.75081	- 6393	3.32097	3053	10.45381	26708	13.77478	29761
130	3.68688	- 5076	3.35150	2206	10.72089	24923	14.07239	27129
140	3.63612	- 3831	3.37356	1616	10.97012	23333	14.34368	24949
150	3.59781	- 2786	3.38972	1209	11.20345	21917	14.59317	23126
160	3.56995	- 1973	3.40181	928	11.42262	20652	14.82443	21580
170	3.55022	- 1365	3.41109	732	11.62914	19519	15.04023	20251
180	3.53657	- 927	3.41841	596	11.82433	18499	15.24274	19095
190	3.52730	- 618	3.42437	498	12.00932	17577	15.43369	18075
200	3.52112	- 404	3.42935	427	12.18509	16743	15.61444	17170
210	3.51708	- 257	3.43362	373	12.35252	15982	15.78614	16355
220	3.51451	- 159	3.43735	332	12.51234	15286	15.94969	15618
230	3.51292	- 93	3.44067	299	12.66520	14650	16.10587	14949
240	3.51199	- 49	3.44366	272	12.81170	14064	16.25536	14336
250	3.51150	- 20	3.44638	250	12.95234	13522	16.39872	13772
260	3.51130	- 1	3.44888	231	13.08756	13020	16.53644	13251
270	3.51129	12	3.45119	215	13.21776	12554	16.66895	12769
280	3.51141	21	3.45334	201	13.34330	12122	16.79664	12323
290	3.51162	26	3.45535	188	13.46452	11718	16.91987	11906
300	3.51188		3.45723		13.58170		17.03893	

Table 2.007. T_2 - Normal Mixture

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.50001	1680	6.81972	-215792	1.29189	389293	8.11161	173501
20	2.51681	12154	4.66180	- 69827	5.18482	173745	9.84662	103918
30	2.63835	20381	3.96353	- 30644	6.92227	109262	10.88580	78618
40	2.84216	19440	3.65709	- 14291	8.01489	79870	11.67198	65579
50	3.03656	15071	3.51418	- 6642	8.81359	63405	12.32777	56763
60	3.18727	10980	3.44776	- 2894	9.44764	52897	12.89540	50003
70	3.29707	7718	3.41882	- 1009	9.97661	45568	13.39543	44559
80	3.37425	5184	3.40873	- 75	10.43229	40141	13.84102	40066
90	3.42609	3310	3.40798	360	10.83370	35923	14.24168	36283
100	3.45919	2021	3.41158	532	11.19293	32541	14.60451	33073
110	3.47940	1190	3.41690	575	11.51834	29754	14.93524	30329
120	3.49130	682	3.42265	557	11.81588	27418	15.23853	27975
130	3.49812	388	3.42822	514	12.09006	25425	15.51828	25939
140	3.50200	222	3.43336	466	12.34431	23703	15.77767	24169
150	3.50422	131	3.43802	418	12.58134	22203	16.01936	22621
160	3.50553	83	3.44220	375	12.80337	20879	16.24557	21254
170	3.50636	58	3.44595	338	13.01216	19706	16.45811	20044
180	3.50694	45	3.44933	304	13.20922	18658	16.65855	18962
190	3.50739	40	3.45237	276	13.39580	17715	16.84817	17991
200	3.50779	21	3.45513	248	13.57295	16873	17.02808	17121
210	3.50800	23	3.45761	225	13.74168	16099	17.19929	16324
220	3.50823	32	3.45986	211	13.90267	15384	17.36253	15596
230	3.50855	40	3.46197	195	14.05651	14738	17.51849	14933
240	3.50895	38	3.46392	181	14.20389	14145	17.66782	14325
250	3.50933	42	3.46573	169	14.34534	13596	17.81107	13765
260	3.50975	45	3.46742	157	14.48130	13089	17.94872	13247
270	3.51020	50	3.46899	148	14.61219	12618	18.08119	12766
280	3.51070	57	3.47047	140	14.73837	12181	18.20885	12321
290	3.51127	64	3.47187	132	14.86018	11773	18.33206	11905
300	3.51191	73	3.47319	126	14.97791	11390	18.45111	11516
310	3.51264	83	3.47445	121	15.09181	11033	18.56627	11154
320	3.51347	95	3.47566	116	15.20214	10697	18.67781	10813
330	3.51442	109	3.47682	112	15.30911	10381	18.78594	10493
340	3.51551	124	3.47794	109	15.41292	10084	18.89087	10192
350	3.51675	141	3.47903	107	15.51376	9802	18.99279	9903
360	3.51816	156	3.48010	105	15.61178	9536	19.09188	9642
370	3.51972	180	3.48115	104	15.70714	9285	19.18830	9389
380	3.52152	199	3.48219	103	15.79999	9047	19.28219	9150
390	3.52351	218	3.48322	104	15.89046	8820	19.37369	8923
400	3.52569	1445	3.48426	534	15.97866	41069	19.46292	41604
450	3.54014	2066	3.48960	604	16.38935	36797	19.87896	37400
500	3.56080	2665	3.49564	709	16.75732	33350	20.25296	34059
550	3.58745	3182	3.50273	835	17.09082	30512	20.59355	31348
600	3.61927	3588	3.51108	968	17.39594	28141	20.90703	29109
650	3.65515	3873	3.52076	1097	17.67735	26131	21.19812	27228
700	3.69388	4047	3.53173	1215	17.93866	24408	21.47040	25622
750	3.73435	4125	3.54388	1320	18.18274	22913	21.72662	24233
800	3.77560	4126	3.55708	1407	18.41187	21606	21.96895	23013
850	3.81686	4066	3.57115	1478	18.62793	20454	22.19908	21932
900	3.85752	3963	3.58593	1534	18.83247	19429	22.41840	20964
950	3.89715	3831	3.60127	1576	19.02676	18512	22.62804	20087
1000	3.93546	3678	3.61703	1604	19.21188	17686	22.82891	19291
1050	3.97224	3515	3.63307	1623	19.38874	16939	23.02182	18561
1100	4.00739	3347	3.64930	1630	19.55813	16258	23.20743	17888
1150	4.04086	3178	3.66560	1630	19.72071	15635	23.38631	17266

Table 2.007. T_2 - Normal Mixture (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.07264	5864	3.68190	3236	19.87706	29599	23.55897	32834
1300	4.13128	5249	3.71426	3169	20.17305	27642	23.88731	30812
1400	4.18377	4696	3.74595	3078	20.44947	25950	24.19543	29028
1500	4.23073	4207	3.77673	2972	20.70897	24470	24.48571	27441
1600	4.27280	3781	3.80645	2856	20.95367	23163	24.76012	26019
1700	4.31061	3410	3.83501	2739	21.18530	21998	25.02031	24737
1800	4.34471	3089	3.86240	2621	21.40528	20954	25.26768	23575
1900	4.37560	2811	3.88861	2506	21.61482	20010	25.50343	22517
2000	4.40371	2570	3.91367	2396	21.81492	19153	25.72860	21548
2100	4.42941	2361	3.93763	2290	22.00645	18371	25.94408	20661
2200	4.45302	2179	3.96053	2189	22.19016	17654	26.15069	19844
2300	4.47481	2021	3.98242	2094	22.36670	16994	26.34913	19087
2400	4.49502	1882	4.00336	2005	22.53664	16383	26.54000	18389
2500	4.51384	1760	4.02341	1920	22.70047	15818	26.72389	17738
2600	4.53144	1652	4.04261	1842	22.85865	15292	26.90127	17133
2700	4.54796	1558	4.06103	1767	23.01157	14801	27.07260	16568
2800	4.56354	1474	4.07870	1697	23.15958	14343	27.23828	16040
2900	4.57828	1399	4.09567	1632	23.30301	13912	27.39868	15545
3000	4.59227	2604	4.11199	3085	23.44213	26638	27.55413	29722
3200	4.61831	2390	4.14284	2868	23.70851	25203	27.85135	28072
3400	4.64221	2214	4.17152	2677	23.96054	23920	28.13207	26597
3600	4.66435	2070	4.19829	2508	24.19974	22767	28.39804	25275
3800	4.68505	1951	4.22337	2358	24.42741	21724	28.65079	24081
4000	4.70456	1850	4.24695	2223	24.64465	20775	28.89160	22999
4200	4.72306	1765	4.26918	2104	24.85240	19910	29.12159	22013
4400	4.74071	1692	4.29022	1995	25.05150	19115	29.34172	21111
4600	4.75763	1628	4.31017	1899	25.24265	18384	29.55283	20283
4800	4.77391	1574	4.32916	1811	25.42649	17710	29.75566	19520
5000	4.78965		4.34727		25.60359		29.95086	

Table 2.008. T₂ - Equilibrium Mixture

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	3.38998	99325	2.65890	81236	3.42933	211447	6.08823	292683
20	4.38323	-82907	3.47126	15355	5.54380	145238	9.01506	160593
30	3.55416	-31820	3.62481	- 6591	6.99618	103503	10.62099	96912
40	3.23596	- 4816	3.55890	- 7207	8.03121	78599	11.59011	71392
50	3.18780	5105	3.48683	- 4628	8.81720	63123	12.30403	58495
60	3.23885	7419	3.44055	- 2353	9.44843	52834	12.88898	50481
70	3.31304	6580	3.41702	- 873	9.97677	45559	13.39379	44686
80	3.37884	4849	3.40829	- 41	10.43236	40135	13.84065	40094
90	3.42733	3219	3.40788	367	10.83371	35922	14.24159	36289
100	3.45952	1996	3.41155	535	11.19293	32541	14.60448	33076
110	3.47948	1184	3.41690	575	11.51834	29754	14.93524	30329
120	3.49132	681	3.42265	557	11.81588	27418	15.23853	27975
130	3.49813	387	3.42822	514	12.09006	25425	15.51828	25939
140	3.50200	222	3.43336	466	12.34431	23703	15.77767	24169
150	3.50422	131	3.43802	418	12.58134	22203	16.01936	22621
160	3.50553	83	3.44220	375	12.80337	20879	16.24557	21254
170	3.50636	58	3.44595	338	13.01216	19706	16.45811	20044
180	3.50694	45	3.44933	304	13.20922	18658	16.65855	18962
190	3.50739	40	3.45237	276	13.39580	17715	16.84817	17991
200	3.50779		3.45513		13.57295		17.02808	

Table 2.009. T₂ - Para (includes only the even numbered rotational states)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
10	2.50005	6634	2.50000	770	3.40136	173374	5.90136	174144
20	2.56639	44226	2.50770	8210	5.13510	102850	7.64280	111060
30	3.00865	58556	2.58980	18054	6.16360	76815	8.75340	94869
40	3.59421	32217	2.77034	20255	6.93175	64027	9.70209	84282
50	3.91638	4132	2.97289	16359	7.57202	55728	10.54491	72087
60	3.95770	- 9054	3.13648	11161	8.12930	49249	11.26578	60410
70	3.86716	-11328	3.24809	7021	8.62179	43868	11.86988	50889
80	3.75388	- 9221	3.31830	4301	9.06047	39352	12.37877	43653
90	3.66167	- 6339	3.36131	2664	9.45399	35564	12.81530	38228
100	3.59828	- 3972	3.38795	1716	9.80963	32377	13.19758	34093
110	3.55856	- 2345	3.40511	1172	10.13340	29680	13.53851	30852
120	3.53511	- 1325	3.41683	854	10.43020	27384	13.84703	28238
130	3.52186	- 722	3.42537	661	10.70404	25410	14.12941	26071
140	3.51464	- 378	3.43198	537	10.95814	23697	14.39012	24234
150	3.51086	- 188	3.43735	453	11.19511	22199	14.63246	22652
160	3.50898	- 84	3.44188	392	11.41710	20879	14.85898	21271
170	3.50814	- 29	3.44580	345	11.62589	19705	15.07169	20050
180	3.50785	1	3.44925	308	11.82294	18657	15.27219	18965
190	3.50786	16	3.45233	278	12.00951	17715	15.46184	17993
200	3.50802		3.45511		12.18666		15.64177	

Table 2.010. HD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.52863	-397	3.03493	8197	7.97262	56104	11.00756	64301
60	3.52466	-385	3.11690	5797	8.53366	48507	11.65057	54303
70	3.52081	-308	3.17487	4304	9.01873	42688	12.19360	46993
80	3.51773	-232	3.21791	3318	9.44561	38101	12.66353	41419
90	3.51541	-173	3.25109	2634	9.82662	34395	13.07772	37029
100	3.51368	-128	3.27743	2141	10.17057	31341	13.44801	33482
110	3.51240	- 93	3.29884	1776	10.48398	28783	13.78283	30558
120	3.51147	- 67	3.31660	1496	10.77181	26607	14.08841	28104
130	3.51080	- 48	3.33156	1279	11.03788	24738	14.36945	26016
140	3.51032	- 32	3.34435	1105	11.28526	23112	14.62961	24218
150	3.51000	- 21	3.35540	966	11.51638	21697	14.87179	22652
160	3.50979	- 11	3.36506	851	11.73325	20427	15.09831	21278
170	3.50968	- 4	3.37357	756	11.93752	19304	15.31109	20060
180	3.50964	2	3.38113	676	12.13056	18299	15.51169	18976
190	3.50966	7	3.38789	609	12.31355	17394	15.70145	18002
200	3.50973	10	3.39398	551	12.48749	16573	15.88147	17125
210	3.50983	14	3.39949	502	12.65322	15826	16.05272	16328
220	3.50997	17	3.40451	459	12.81148	15144	16.21600	15603
230	3.51014	19	3.40910	422	12.96292	14518	16.37203	14939
240	3.51033	21	3.41332	388	13.10810	13942	16.52142	14330
250	3.51054	22	3.41720	359	13.24752	13409	16.66472	13769
260	3.51076	24	3.42079	334	13.38161	12917	16.80241	13251
270	3.51100	25	3.42413	311	13.51078	12458	16.93492	12769
280	3.51125	26	3.42724	290	13.63536	12032	17.06261	12322
290	3.51151	27	3.43014	272	13.75568	11633	17.18583	11905
300	3.51178	28	3.43286	255	13.87201	11261	17.30488	11515
310	3.51206	29	3.43541	240	13.98462	10911	17.42003	11151
320	3.51235	30	3.43781	226	14.09373	10582	17.53154	10809
330	3.51265	32	3.44007	214	14.19955	10273	17.63963	10486
340	3.51297	34	3.44221	203	14.30228	9981	17.74449	10184
350	3.51331	34	3.44424	192	14.40209	9705	17.84633	9898
360	3.51365	35	3.44616	183	14.49914	9445	17.94531	9628
370	3.51400	37	3.44799	174	14.59359	9198	18.04159	9371
380	3.51437	39	3.44973	167	14.68557	8963	18.13530	9130
390	3.51476	41	3.45140	158	14.77520	8740	18.22660	8899
400	3.51517	251	3.45298	705	14.86260	40712	18.31559	41416
450	3.51768	369	3.46003	593	15.26972	36487	18.72975	37081
500	3.52137	543	3.46596	527	15.63459	33059	19.10056	33586
550	3.52680	770	3.47123	493	15.96518	30225	19.43642	30717
600	3.53450	1040	3.47616	488	16.26743	27843	19.74359	28332
650	3.54490	1333	3.48104	502	16.54586	25816	20.02691	26317
700	3.55823	1621	3.48606	533	16.80402	24069	20.29008	24603
750	3.57444	1898	3.49139	577	17.04471	22551	20.53611	23128
800	3.59342	2149	3.49716	628	17.27022	21220	20.76739	21848
850	3.61491	2364	3.50344	684	17.48242	20045	20.98587	20728
900	3.63855	2543	3.51028	742	17.68287	18998	21.19315	19741
950	3.66398	2683	3.51770	798	17.87285	18064	21.39056	18861
1000	3.69081	2788	3.52568	852	18.05349	17222	21.57917	18075
1050	3.71869	2859	3.53420	903	18.22571	16462	21.75992	17365
1100	3.74728	2899	3.54323	951	18.39033	15771	21.93357	16721
1150	3.77627	2915	3.55274	992	18.54804	15141	22.10078	16133

Table 2. 010. HD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.80542	5791	3.56266	2090	18.69945	28598	22.26211	30689
1300	3.86333	5636	3.58356	2201	18.98543	26637	22.56900	28838
1400	3.91969	5398	3.60557	2276	19.25180	24954	22.85738	27229
1500	3.97367	5113	3.62833	2319	19.50134	23490	23.12967	25810
1600	4.02480	4807	3.65152	2339	19.73624	22208	23.38777	24546
1700	4.07287	4499	3.67491	2337	19.95832	21071	23.63323	23409
1800	4.11786	4197	3.69828	2320	20.16903	20058	23.86732	22378
1900	4.15983	3911	3.72148	2291	20.36961	19147	24.09110	21438
2000	4.19894	3643	3.74439	2252	20.56108	18324	24.30548	20576
2100	4.23537	3394	3.76691	2208	20.74432	17575	24.51124	19782
2200	4.26931	3164	3.78899	2158	20.92007	16890	24.70906	19048
2300	4.30095	2956	3.81057	2105	21.08897	16262	24.89954	18368
2400	4.33051	2764	3.83162	2052	21.25159	15684	25.08322	17735
2500	4.35815	2591	3.85214	1996	21.40843	15147	25.26057	17144
2600	4.38406	2433	3.87210	1942	21.55990	14650	25.43201	16592
2700	4.40839	2290	3.89152	1887	21.70640	14187	25.59793	16074
2800	4.43129	2159	3.91039	1834	21.84827	13754	25.75867	15588
2900	4.45288	2041	3.92873	1781	21.98581	13349	25.91455	15130
3000	4.47329	3768	3.94654	3412	22.11930	25591	26.06585	28993
3200	4.51097	3410	3.98066	3222	22.37511	24230	26.35578	27451
3400	4.54507	3111	4.01288	3044	22.61741	23024	26.63029	26068
3600	4.57618	2860	4.04332	2881	22.84765	21939	26.89097	24820
3800	4.60478	2649	4.07213	2730	23.06704	20957	27.13917	23688
4000	4.63127	2470	4.09943	2592	23.27661	20065	27.37605	22656
4200	4.65597	2316	4.12535	2465	23.47726	19248	27.60261	21714
4400	4.67913	2184	4.15000	2349	23.66974	18500	27.81975	20848
4600	4.70097	2069	4.17349	2241	23.85474	17810	28.02823	20052
4800	4.72166	1970	4.19590	2143	24.03284	17172	28.22875	19315
5000	4.74136		4.21733		24.20456		28.42190	

Table 2.011. HT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.52604	-456	3.08910	7244	8.46785	57003	11.55696	64246
60	3.52148	-367	3.16154	5114	9.03788	49140	12.19942	54255
70	3.51781	-272	3.21268	3797	9.52928	43159	12.74197	46955
80	3.51509	-195	3.25065	2926	9.96087	38463	13.21152	41390
90	3.51314	-140	3.27991	2325	10.34550	34683	13.62542	37007
100	3.51174	-100	3.30316	1892	10.69233	31574	13.99549	33466
110	3.51074	-69	3.32208	1569	11.00807	28975	14.33015	30544
120	3.51005	-48	3.33777	1323	11.29782	26770	14.63559	28094
130	3.50957	-31	3.35100	1131	11.56552	24876	14.91653	26007
140	3.50926	-19	3.36231	979	11.81428	23232	15.17660	24211
150	3.50907	-10	3.37210	856	12.04660	21791	15.41871	22646
160	3.50897	-1	3.38066	755	12.26451	20518	15.64517	21273
170	3.50896	4	3.38821	671	12.46969	19386	15.85790	20057
180	3.50900	9	3.39492	600	12.66355	18372	16.05847	18973
190	3.50909	13	3.40092	541	12.84727	17458	16.24820	17999
200	3.50922	16	3.40633	491	13.02185	16632	16.42819	17122
210	3.50938	19	3.41124	446	13.18817	15879	16.59941	16326
220	3.50957	21	3.41570	409	13.34696	15193	16.76267	15601
230	3.50978	22	3.41979	375	13.49889	14563	16.91868	14938
240	3.51000	24	3.42354	347	13.64452	13982	17.06806	14329
250	3.51024	26	3.42701	320	13.78434	13448	17.21135	13768
260	3.51050	26	3.43021	298	13.91882	12951	17.34903	13250
270	3.51076	28	3.43319	278	14.04833	12491	17.48153	12768
280	3.51104	28	3.43597	259	14.17324	12062	17.60921	12321
290	3.51132	29	3.43856	243	14.29386	11661	17.73242	11905
300	3.51161	30	3.44099	228	14.41047	11287	17.85147	11515
310	3.51191	33	3.44327	215	14.52334	10935	17.96662	11150
320	3.51224	34	3.44542	204	14.63269	10605	18.07812	10809
330	3.51258	35	3.44746	192	14.73874	10295	18.18621	10486
340	3.51293	36	3.44938	182	14.84169	10002	18.29107	10184
350	3.51329	38	3.45120	173	14.94171	9724	18.39291	9898
360	3.51367	40	3.45293	164	15.03895	9463	18.49189	9627
370	3.51407	43	3.45457	158	15.13358	9215	18.58816	9372
380	3.51450	45	3.45615	150	15.22573	8980	18.68188	9130
390	3.51495	49	3.45765	144	15.31553	8756	18.77318	8900
400	3.51544	311	3.45909	642	15.40309	40780	18.86218	41422
450	3.51855	476	3.46551	553	15.81089	36542	19.27640	37095
500	3.52331	709	3.47104	505	16.17631	33106	19.64735	33612
550	3.53040	993	3.47609	493	16.50737	30268	19.98347	30760
600	3.54033	1310	3.48102	503	16.81005	27882	20.29107	28386
650	3.55343	1637	3.48605	538	17.08887	25854	20.57493	26391
700	3.56980	1951	3.49143	586	17.34741	24108	20.83884	24694
750	3.58931	2235	3.49729	643	17.58849	22591	21.08578	23235
800	3.61166	2479	3.50372	707	17.81440	21262	21.31813	21969
850	3.63645	2679	3.51079	772	18.02702	20089	21.53782	20860
900	3.66324	2834	3.51851	835	18.22791	19046	21.74642	19882
950	3.69158	2947	3.52686	897	18.41837	18113	21.94524	19010
1000	3.72105	3020	3.53583	954	18.59950	17274	22.13534	18228
1050	3.75125	3060	3.54537	1005	18.77224	16516	22.31762	17521
1100	3.78185	3069	3.55542	1052	18.93740	15828	22.49283	16879
1150	3.81254	3054	3.56594	1091	19.09568	15199	22.66162	16290

Table 2.011. HT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.84308	5989	3.57685	2279	19.24767	28720	22.82452	30999
1300	3.90297	5740	3.59964	2374	19.53487	26762	23.13451	29136
1400	3.96037	5430	3.62338	2429	19.80249	25082	23.42587	27511
1500	4.01467	5090	3.64767	2455	20.05331	23619	23.70098	26075
1600	4.06557	4744	3.67222	2455	20.28950	22337	23.96173	24791
1700	4.11301	4407	3.69677	2436	20.51287	21199	24.20964	23636
1800	4.15708	4087	3.72113	2404	20.72486	20184	24.44600	22587
1900	4.19795	3790	3.74517	2359	20.92670	19270	24.67187	21630
2000	4.23585	3515	3.76876	2309	21.11940	18444	24.88817	20753
2100	4.27100	3264	3.79185	2253	21.30384	17692	25.09570	19945
2200	4.30364	3035	3.81438	2194	21.48076	17004	25.29515	19198
2300	4.33399	2829	3.83632	2134	21.65080	16373	25.48713	18506
2400	4.36228	2642	3.85766	2071	21.81453	15790	25.67219	17862
2500	4.38870	2473	3.87837	2011	21.97243	15251	25.85081	17261
2600	4.41343	2320	3.89848	1951	22.12494	14749	26.02342	16701
2700	4.43663	2182	3.91799	1892	22.27243	14284	26.19043	16175
2800	4.45845	2058	3.93691	1834	22.41527	13847	26.35218	15681
2900	4.47903	1945	3.95525	1778	22.55374	13439	26.50899	15218
3000	4.49848	3593	3.97303	3399	22.68813	25751	26.66117	29149
3200	4.53441	3255	4.00702	3199	22.94564	24389	26.95266	27589
3400	4.56696	2975	4.03901	3017	23.18953	23173	27.22855	26190
3600	4.59671	2741	4.06918	2850	23.42126	22078	27.49045	24927
3800	4.62412	2544	4.09768	2696	23.64204	21087	27.73972	23784
4000	4.64956	2378	4.12464	2557	23.85291	20187	27.97756	22744
4200	4.67334	2235	4.15021	2429	24.05478	19363	28.20500	21792
4400	4.69569	2113	4.17450	2313	24.24841	18608	28.42292	20920
4600	4.71682	2008	4.19763	2205	24.43449	17912	28.63212	20118
4800	4.73690	1915	4.21968	2108	24.61361	17269	28.83330	19376
5000	4.75605		4.24076		24.78630		29.02706	

Table 2.012. DT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.51411	-309	3.24874	4395	9.11621	59645	12.36496	64040
60	3.51102	-189	3.29269	3105	9.71266	51003	13.00536	54107
70	3.50913	-117	3.32374	2309	10.22269	44540	13.54643	46850
80	3.50796	-71	3.34683	1786	10.66809	39528	14.01493	41313
90	3.50725	-41	3.36469	1423	11.06337	35527	14.42806	36951
100	3.50684	-22	3.37892	1162	11.41864	32261	14.79757	33422
110	3.50662	-8	3.39054	967	11.74125	29544	15.13179	30511
120	3.50654	1	3.40021	818	12.03669	27249	15.43690	28068
130	3.50655	8	3.40839	701	12.30918	25286	15.71758	25986
140	3.50663	14	3.41540	609	12.56204	23585	15.97744	24194
150	3.50677	18	3.42149	534	12.79789	22099	16.21938	22633
160	3.50695	21	3.42683	471	13.01888	20789	16.44571	21261
170	3.50716	23	3.43154	421	13.22677	19627	16.65832	20047
180	3.50739	25	3.43575	378	13.42304	18586	16.85879	18964
190	3.50764	27	3.43953	341	13.60890	17651	17.04843	17993
200	3.50791	27	3.44294	310	13.78541	16806	17.22836	17116
210	3.50818	29	3.44604	283	13.95347	16038	17.39952	16321
220	3.50847	30	3.44887	260	14.11385	15337	17.56273	15596
230	3.50877	30	3.45147	239	14.26722	14694	17.71869	14934
240	3.50907	32	3.45386	222	14.41416	14104	17.86803	14325
250	3.50939	34	3.45608	205	14.55520	13559	18.01128	13765
260	3.50973	37	3.45813	193	14.69079	13055	18.14893	13247
270	3.51010	39	3.46006	179	14.82134	12587	18.28140	12766
280	3.51049	41	3.46185	169	14.94721	12151	18.40906	12320
290	3.51090	44	3.46354	158	15.06872	11744	18.53226	11903
300	3.51134	48	3.46512	150	15.18616	11365	18.65129	11514
310	3.51182	53	3.46662	142	15.29981	11008	18.76643	11151
320	3.51235	58	3.46804	135	15.40989	10674	18.87794	10809
330	3.51293	65	3.46939	129	15.51663	10359	18.98603	10488
340	3.51358	74	3.47068	124	15.62022	10063	19.09091	10186
350	3.51432	83	3.47192	119	15.72085	9782	19.19277	9901
360	3.51515	92	3.47311	115	15.81867	9517	19.29178	9632
370	3.51607	104	3.47426	111	15.91384	9267	19.38810	9379
380	3.51711	116	3.47537	108	16.00651	9029	19.48189	9137
390	3.51827	129	3.47645	107	16.09680	8803	19.57326	8909
400	3.51956	883	3.47752	512	16.18483	40989	19.66235	41501
450	3.52839	1342	3.48264	521	16.59472	36720	20.07736	37241
500	3.54181	1844	3.48785	570	16.96192	33269	20.44977	33840
550	3.56025	2336	3.49355	650	17.29461	30425	20.78817	31075
600	3.58361	2773	3.50005	747	17.59886	28044	21.09892	28791
650	3.61134	3132	3.50752	851	17.87930	26024	21.38683	26875
700	3.64266	3406	3.51603	957	18.13954	24291	21.65558	25247
750	3.67672	3592	3.52560	1056	18.38245	22787	21.90805	23843
800	3.71264	3703	3.53616	1147	18.61032	21471	22.14648	22618
850	3.74967	3749	3.54763	1226	18.82503	20312	22.37266	21539
900	3.78716	3739	3.55989	1295	19.02815	19282	22.58805	20576
950	3.82455	3690	3.57284	1351	19.22097	18361	22.79381	19712
1000	3.86145	3608	3.58635	1396	19.40458	17531	22.99093	18928
1050	3.89753	3504	3.60031	1431	19.57989	16782	23.18021	18212
1100	3.93257	3385	3.61462	1457	19.74771	16099	23.36233	17557
1150	3.96642	3255	3.62919	1473	19.90870	15477	23.53790	16950

Table 2.012. DT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.99897	6106	3.64392	2970	20.06347	29284	23.70740	32253
1300	4.06003	5565	3.67362	2962	20.35631	27333	24.02993	30295
1400	4.11568	5051	3.70324	2920	20.62964	25650	24.33288	28571
1500	4.16619	4577	3.73244	2857	20.88614	24180	24.61859	27036
1600	4.21196	4150	3.76101	2776	21.12794	22885	24.88895	25662
1700	4.25346	3768	3.78877	2688	21.35679	21732	25.14557	24420
1800	4.29114	3432	3.81565	2594	21.57411	20701	25.38977	23295
1900	4.32546	3134	3.84159	2499	21.78112	19768	25.62272	22267
2000	4.35680	2873	3.86658	2404	21.97880	18924	25.84539	21328
2100	4.38553	2643	3.89062	2311	22.16804	18153	26.05867	20463
2200	4.41196	2442	3.91373	2220	22.34957	17446	26.26330	19667
2300	4.43638	2264	3.93593	2133	22.52403	16797	26.45997	18929
2400	4.45902	2107	3.95726	2049	22.69200	16196	26.64926	18246
2500	4.48009	1968	3.97775	1971	22.85396	15640	26.83172	17610
2600	4.49977	1846	3.99746	1895	23.01036	15122	27.00782	17017
2700	4.51823	1736	4.01641	1823	23.16158	14640	27.17799	16464
2800	4.53559	1639	4.03464	1756	23.30798	14189	27.34263	15944
2900	4.55198	1552	4.05220	1692	23.44987	13766	27.50207	15459
3000	4.56750	2879	4.06912	3206	23.58753	26365	27.65666	29571
3200	4.59629	2627	4.10118	2991	23.85118	24954	27.95237	27945
3400	4.62256	2421	4.13109	2799	24.10072	23693	28.23182	26491
3600	4.64677	2251	4.15908	2626	24.33765	22558	28.49673	25185
3800	4.66928	2110	4.18534	2473	24.56323	21532	28.74858	24005
4000	4.69038	1990	4.21007	2335	24.77855	20598	28.98863	22933
4200	4.71028	1889	4.23342	2211	24.98453	19745	29.21796	21956
4400	4.72917	1802	4.25553	2099	25.18198	18964	29.43752	21062
4600	4.74719	1728	4.27652	1997	25.37162	18243	29.64814	20241
4800	4.76447	1663	4.29649	1906	25.55405	17578	29.85055	19483
5000	4.78110		4.31555		25.72983		30.04538	

Table 2. 013. LiH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50220	- 14	3.42843	1229	10.84307	62623	14.27151	63851
60	3.50206	1	3.44072	876	11.46930	53108	14.91002	53985
70	3.50207	8	3.44948	658	12.00038	46107	15.44987	46764
80	3.50215	12	3.45606	512	12.46145	40737	15.91751	41250
90	3.50227	16	3.46118	412	12.86882	36489	16.33001	36901
100	3.50243	17	3.46530	338	13.23371	33045	16.69902	33382
110	3.50260	20	3.46868	284	13.56416	30194	17.03284	30478
120	3.50280	23	3.47152	241	13.86610	27796	17.33762	28038
130	3.50303	29	3.47393	209	14.14406	25753	17.61800	25961
140	3.50332	41	3.47602	183	14.40159	23988	17.87761	24172
150	3.50373	58	3.47785	164	14.64147	22451	18.11933	22615
160	3.50431	82	3.47949	148	14.86598	21099	18.34548	21247
170	3.50513	115	3.48097	137	15.07697	19901	18.55795	20037
180	3.50628	157	3.48234	130	15.27598	18831	18.75832	18962
190	3.50785	209	3.48364	126	15.46429	17872	18.94794	17998
200	3.50994	269	3.48490	126	15.64301	17006	19.12792	17131
210	3.51263	336	3.48616	127	15.81307	16221	19.29923	16349
220	3.51599	410	3.48743	133	15.97528	15505	19.46272	15638
230	3.52009	487	3.48876	141	16.13033	14851	19.61910	14991
240	3.52496	569	3.49017	150	16.27884	14251	19.76901	14401
250	3.53065	650	3.49167	162	16.42135	13697	19.91302	13860
260	3.53715	733	3.49329	176	16.55832	13187	20.05162	13363
270	3.54448	814	3.49505	191	16.69019	12714	20.18525	12904
280	3.55262	892	3.49696	207	16.81733	12275	20.31429	12482
290	3.56154	966	3.49903	224	16.94008	11866	20.43911	12091
300	3.57120	1036	3.50127	242	17.05874	11485	20.56002	11726
310	3.58156	1101	3.50369	260	17.17359	11128	20.67728	11389
320	3.59257	1160	3.50629	279	17.28487	10793	20.79117	11072
330	3.60417	1214	3.50908	298	17.39280	10480	20.90189	10778
340	3.61631	1263	3.51206	316	17.49760	10185	21.00967	10500
350	3.62894	1304	3.51522	333	17.59945	9908	21.11467	10242
360	3.64198	1341	3.51855	352	17.69853	9645	21.21709	9997
370	3.65539	1372	3.52207	369	17.79498	9398	21.31706	9766
380	3.66911	1398	3.52576	385	17.88896	9163	21.41472	9549
390	3.68309	1419	3.52961	402	17.98059	8941	21.51021	9342
400	3.69728	7248	3.53363	2219	18.07000	41745	21.60363	43965
450	3.76976	7191	3.55582	2501	18.48745	37592	22.04328	40093
500	3.84167	6845	3.58083	2686	18.86337	34254	22.44421	36939
550	3.91012	6352	3.60769	2789	19.20591	31510	22.81360	34299
600	3.97364	5805	3.63558	2827	19.52101	29212	23.15659	32039
650	4.03169	5257	3.66385	2818	19.81313	27255	23.47698	30074
700	4.08426	4738	3.69203	2776	20.08568	25568	23.77772	28343
750	4.13164	4264	3.71979	2709	20.34136	24093	24.06115	26803
800	4.17428	3838	3.74688	2629	20.58229	22795	24.32918	25424
850	4.21266	3458	3.77317	2540	20.81024	21639	24.58342	24178
900	4.24724	3125	3.79857	2445	21.02663	20604	24.82520	23049
950	4.27849	2831	3.82302	2349	21.23267	19670	25.05569	22019
1000	4.30680	2573	3.84651	2254	21.42937	18822	25.27588	21076
1050	4.33253	2348	3.86905	2161	21.61759	18049	25.48664	20210
1100	4.35601	2150	3.89066	2071	21.79808	17341	25.68874	19412
1150	4.37751	1977	3.91137	1984	21.97149	16689	25.88286	18673

Table 2. 013. LiH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.39728	3511	3.93121	3723	22.13838	31615	26.06959	35339
1300	4.43239	3031	3.96844	3425	22.45453	29537	26.42298	32961
1400	4.46270	2655	4.00269	3157	22.74990	27724	26.75259	30882
1500	4.48925	2354	4.03426	2919	23.02714	26131	27.06141	29050
1600	4.51279	2113	4.06345	2706	23.28845	24717	27.35191	27423
1700	4.53392	1917	4.09051	2518	23.53562	23453	27.62614	25970
1800	4.55309	1757	4.11569	2349	23.77015	22316	27.88584	24665
1900	4.57066	1624	4.13918	2198	23.99331	21288	28.13249	23486
2000	4.58690	1514	4.16116	2064	24.20619	20353	28.36735	22417
2100	4.60204	1420	4.18180	1943	24.40972	19499	28.59152	21442
2200	4.61624	1342	4.20123	1833	24.60471	18716	28.80594	20550
2300	4.62966	1274	4.21956	1736	24.79187	17995	29.01144	19730
2400	4.64240	1217	4.23692	1646	24.97182	17330	29.20874	18977
2500	4.65457	1166	4.25338	1566	25.14512	16712	29.39851	18278
2600	4.66623	1123	4.26904	1492	25.31224	16140	29.58129	17632
2700	4.67746	1084	4.28396	1425	25.47364	15606	29.75761	17030
2800	4.68830	1051	4.29821	1363	25.62970	15107	29.92791	16471
2900	4.69881	1021	4.31184	1307	25.78077	14640	30.09262	15947
3000	4.70902	1965	4.32491	2463	25.92717	27992	30.25209	30454
3200	4.72867	1879	4.34954	2286	26.20709	26438	30.55663	28724
3400	4.74746	1808	4.37240	2134	26.47147	25053	30.84387	27188
3600	4.76554	1749	4.39374	2003	26.72200	23810	31.11575	25813
3800	4.78303	1699	4.41377	1889	26.96010	22688	31.37388	24577
4000	4.80002	1655	4.43266	1789	27.18698	21671	31.61965	23459
4200	4.81657	1619	4.45055	1700	27.40369	20744	31.85424	22445
4400	4.83276	1584	4.46755	1623	27.61113	19895	32.07869	21517
4600	4.84860	1555	4.48378	1552	27.81008	19116	32.29386	20669
4800	4.86415	1528	4.49930	1490	28.00124	18397	32.50055	19887
5000	4.87943		4.51420		28.18521		32.69942	

Table 2.014. LiD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50142	11	3.46004	690	11.56084	63149	15.02089	63839
60	3.50153	15	3.46694	496	12.19233	53482	15.65928	53978
70	3.50168	18	3.47190	373	12.72715	46387	16.19906	46759
80	3.50186	20	3.47563	293	13.19102	40954	16.66665	41247
90	3.50206	26	3.47856	236	13.60056	36663	17.07912	36900
100	3.50232	39	3.48092	196	13.96719	33186	17.44812	33382
110	3.50271	62	3.48288	168	14.29905	30313	17.78194	30480
120	3.50333	102	3.48456	148	14.60218	27897	18.08674	28045
130	3.50435	163	3.48604	136	14.88115	25840	18.36719	25976
140	3.50598	244	3.48740	131	15.13955	24065	18.62695	24197
150	3.50842	346	3.48871	134	15.38020	22520	18.86892	22653
160	3.51188	463	3.49005	141	15.60540	21162	19.09545	21304
170	3.51651	595	3.49146	155	15.81702	19961	19.30849	20116
180	3.52246	734	3.49301	174	16.01663	18890	19.50965	19064
190	3.52980	876	3.49475	196	16.20553	17931	19.70029	18127
200	3.53856	1018	3.49671	223	16.38484	17066	19.88156	17289
210	3.54874	1154	3.49894	253	16.55550	16283	20.05445	16535
220	3.56028	1283	3.50147	283	16.71833	15570	20.21980	15854
230	3.57311	1400	3.50430	315	16.87403	14921	20.37834	15236
240	3.58711	1505	3.50745	349	17.02324	14325	20.53070	14673
250	3.60216	1598	3.51094	381	17.16649	13778	20.67743	14159
260	3.61814	1678	3.51475	414	17.30427	13272	20.81902	13686
270	3.63492	1743	3.51889	445	17.43699	12806	20.95588	13251
280	3.65235	1797	3.52334	476	17.56505	12372	21.08839	12848
290	3.67032	1838	3.52810	504	17.68877	11969	21.21687	12474
300	3.68870	1868	3.53314	532	17.80846	11594	21.34161	12125
310	3.70738	1888	3.53846	558	17.92440	11242	21.46286	11801
320	3.72626	1898	3.54404	581	18.03682	10915	21.58087	11495
330	3.74524	1900	3.54985	602	18.14597	10606	21.69582	11209
340	3.76424	1894	3.55587	623	18.25203	10317	21.80791	10939
350	3.78318	1883	3.56210	640	18.35520	10043	21.91730	10684
360	3.80201	1866	3.56850	656	18.45563	9787	22.02414	10442
370	3.82067	1843	3.57506	671	18.55350	9543	22.12856	10214
380	3.83910	1818	3.58177	683	18.64893	9312	22.23070	9996
390	3.85728	1788	3.58860	694	18.74205	9095	22.33066	9788
400	3.87516	8424	3.59554	3583	18.83300	42554	22.42854	46138
450	3.95940	7473	3.63137	3662	19.25854	38450	22.88992	42112
500	4.03413	6524	3.66799	3632	19.64304	35131	23.31104	38763
550	4.09937	5658	3.70431	3534	19.99435	32384	23.69867	35918
600	4.15595	4902	3.73965	3395	20.31819	30068	24.05785	33463
650	4.20497	4257	3.77360	3237	20.61887	28085	24.39248	31322
700	4.24754	3711	3.80597	3070	20.89972	26364	24.70570	29434
750	4.28465	3253	3.83667	2904	21.16336	24855	25.00004	27759
800	4.31718	2869	3.86571	2742	21.41191	23519	25.27763	26261
850	4.34587	2545	3.89313	2587	21.64710	22327	25.54024	24913
900	4.37132	2272	3.91900	2442	21.87037	21255	25.78937	23697
950	4.39404	2042	3.94342	2305	22.08292	20286	26.02634	22591
1000	4.41446	1846	3.96647	2178	22.28578	19406	26.25225	21584
1050	4.43292	1679	3.98825	2060	22.47984	18601	26.46809	20661
1100	4.44971	1536	4.00885	1950	22.66585	17863	26.67470	19814
1150	4.46507	1412	4.02835	1850	22.84448	17184	26.87284	19034

Table 2.014. LiD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.47919	2519	4.04685	3425	23.01632	32530	27.06318	35954
1300	4.50438	2194	4.08110	3103	23.34162	30360	27.42272	33463
1400	4.52632	1944	4.11213	2827	23.64522	28468	27.75735	31296
1500	4.54576	1748	4.14040	2589	23.92990	26806	28.07031	29395
1600	4.56324	1595	4.16629	2383	24.19796	25330	28.36426	27713
1700	4.57919	1470	4.19012	2203	24.45126	24014	28.64139	26216
1800	4.59389	1369	4.21215	2045	24.69140	22829	28.90355	24875
1900	4.60758	1287	4.23260	1908	24.91969	21759	29.15230	23667
2000	4.62045	1217	4.25168	1785	25.13728	20788	29.38897	22573
2100	4.63262	1160	4.26953	1677	25.34516	19901	29.61470	21578
2200	4.64422	1111	4.28630	1581	25.54417	19089	29.83048	20669
2300	4.65533	1070	4.30211	1494	25.73506	18341	30.03717	19835
2400	4.66603	1034	4.31705	1416	25.91847	17652	30.23552	19069
2500	4.67637	1003	4.33121	1347	26.09499	17014	30.42621	18361
2600	4.68640	975	4.34468	1284	26.26513	16421	30.60982	17705
2700	4.69615	952	4.35752	1227	26.42934	15870	30.78687	17096
2800	4.70567	930	4.36979	1174	26.58804	15355	30.95783	16529
2900	4.71497	912	4.38153	1127	26.74159	14873	31.12312	16000
3000	4.72409	1774	4.39280	2126	26.89032	28419	31.28312	30546
3200	4.74183	1719	4.41406	1979	27.17451	26820	31.58858	28799
3400	4.75902	1672	4.43385	1853	27.44271	25396	31.87657	27249
3600	4.77574	1633	4.45238	1745	27.69667	24120	32.14906	25865
3800	4.79207	1599	4.46983	1651	27.93787	22970	32.40771	24621
4000	4.80806	1569	4.48634	1570	28.16757	21927	32.65392	23497
4200	4.82375	1542	4.50204	1497	28.38684	20979	32.88889	22475
4400	4.83917	1517	4.51701	1434	28.59663	20110	33.11364	21545
4600	4.85434	1496	4.53135	1377	28.79773	19315	33.32909	20692
4800	4.86930	1475	4.54512	1326	28.99088	18581	33.53601	19907
5000	4.88405		4.55838		29.17669		33.73508	

Table 2.015. LiT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50126	16	3.47051	514	12.00654	63324	15.47706	63837
60	3.50142	19	3.47565	370	12.63978	53606	16.11543	53976
70	3.50161	22	3.47935	279	13.17584	46480	16.65519	46759
80	3.50183	30	3.48214	220	13.64064	41027	17.12278	41248
90	3.50213	53	3.48434	181	14.05091	36721	17.53526	36901
100	3.50266	97	3.48615	154	14.41812	33233	17.90427	33388
110	3.50363	170	3.48769	139	14.75045	30353	18.23815	30492
120	3.50533	275	3.48908	135	15.05398	27933	18.54307	28068
130	3.50808	411	3.49043	140	15.33331	25872	18.82375	26012
140	3.51219	572	3.49183	154	15.59203	24097	19.08387	24250
150	3.51791	751	3.49337	176	15.83300	22551	19.32637	22727
160	3.52542	941	3.49513	205	16.05851	21195	19.55364	21400
170	3.53483	1129	3.49718	239	16.27046	19996	19.76764	20235
180	3.54612	1314	3.49957	279	16.47042	18928	19.96999	19208
190	3.55926	1484	3.50236	321	16.65970	17973	20.16207	18293
200	3.57410	1639	3.50557	365	16.83943	17112	20.34500	17478
210	3.59049	1774	3.50922	409	17.01055	16335	20.51978	16743
220	3.60823	1890	3.51331	453	17.17390	15627	20.68721	16081
230	3.62713	1984	3.51784	497	17.33017	14982	20.84802	15478
240	3.64697	2059	3.52281	537	17.47999	14392	21.00280	14929
250	3.66756	2115	3.52818	577	17.62391	13848	21.15209	14426
260	3.68871	2154	3.53395	613	17.76239	13349	21.29635	13961
270	3.71025	2176	3.54008	646	17.89588	12886	21.43596	13533
280	3.73201	2185	3.54654	678	18.02474	12457	21.57129	13134
290	3.75386	2182	3.55332	705	18.14931	12058	21.70263	12763
300	3.77568	2168	3.56037	729	18.26989	11687	21.83026	12416
310	3.79736	2145	3.56766	751	18.38676	11338	21.95442	12090
320	3.81881	2116	3.57517	771	18.50014	11013	22.07532	11784
330	3.83997	2079	3.58288	787	18.61027	10708	22.19316	11494
340	3.86076	2039	3.59075	800	18.71735	10420	22.30810	11221
350	3.88115	1994	3.59875	813	18.82155	10150	22.42031	10962
360	3.90109	1947	3.60688	821	18.92305	9893	22.52993	10715
370	3.92056	1898	3.61509	829	19.02198	9652	22.63708	10481
380	3.93954	1846	3.62338	835	19.11850	9423	22.74189	10257
390	3.95800	1794	3.63173	838	19.21273	9205	22.84446	10043
400	3.97594	8192	3.64011	4198	19.30478	43117	22.94489	47316
450	4.05786	6961	3.68209	4116	19.73595	39009	23.41805	43124
500	4.12747	5885	3.72325	3950	20.12604	35673	23.84929	39623
550	4.18632	4981	3.76275	3743	20.48277	32902	24.24552	36645
600	4.23613	4237	3.80018	3520	20.81179	30559	24.61197	34079
650	4.27850	3630	3.83538	3298	21.11738	28545	24.95276	31844
700	4.31480	3133	3.86836	3083	21.40283	26795	25.27120	29878
750	4.34613	2726	3.89919	2881	21.67078	25258	25.56998	28139
800	4.37339	2393	3.92800	2692	21.92336	23895	25.85137	26586
850	4.39732	2117	3.95492	2517	22.16231	22678	26.11723	25196
900	4.41849	1888	3.98009	2358	22.38909	21583	26.36919	23941
950	4.43737	1697	4.00367	2212	22.60492	20593	26.60860	22805
1000	4.45434	1536	4.02579	2078	22.81085	19693	26.83665	21770
1050	4.46970	1399	4.04657	1956	23.00778	18870	27.05435	20826
1100	4.48369	1284	4.06613	1843	23.19648	18116	27.26261	19960
1150	4.49653	1185	4.08456	1742	23.37764	17421	27.46221	19162

Table 2.015. LiT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.50838	2127	4.10198	3210	23.55185	32962	27.65383	36172
1300	4.52965	1870	4.13408	2893	23.88147	30745	28.01555	33639
1400	4.54835	1674	4.16301	2626	24.18892	28813	28.35194	31438
1500	4.56509	1521	4.18927	2397	24.47705	27114	28.66632	29512
1600	4.58030	1401	4.21324	2201	24.74819	25610	28.96144	27810
1700	4.59431	1305	4.23525	2031	25.00429	24266	29.23954	26298
1800	4.60736	1226	4.25556	1885	25.24695	23060	29.50252	24944
1900	4.61962	1163	4.27441	1755	25.47755	21970	29.75196	23725
2000	4.63125	1110	4.29196	1642	25.69725	20981	29.98921	22623
2100	4.64235	1065	4.30838	1543	25.90706	20078	30.21544	21621
2200	4.65300	1027	4.32381	1453	26.10784	19253	30.43165	20706
2300	4.66327	995	4.33834	1375	26.30037	18493	30.63871	19868
2400	4.67322	967	4.35209	1304	26.48530	17793	30.83739	19097
2500	4.68289	942	4.36513	1240	26.66323	17144	31.02836	18385
2600	4.69231	922	4.37753	1183	26.83467	16544	31.21221	17726
2700	4.70153	903	4.38936	1131	27.00011	15983	31.38947	17115
2800	4.71056	886	4.40067	1084	27.15994	15462	31.56062	16546
2900	4.71942	871	4.41151	1041	27.31456	14973	31.72608	16014
3000	4.72813	1703	4.42192	1967	27.46429	28602	31.88622	30569
3200	4.74516	1658	4.44159	1835	27.75031	26983	32.19191	28818
3400	4.76174	1620	4.45994	1722	28.02014	25542	32.48009	27263
3600	4.77794	1588	4.47716	1625	28.27556	24250	32.75272	25876
3800	4.79382	1559	4.49341	1541	28.51806	23088	33.01148	24629
4000	4.80941	1534	4.50882	1468	28.74894	22034	33.25777	23502
4200	4.82475	1511	4.52350	1404	28.96928	21076	33.49279	22480
4400	4.83986	1490	4.53754	1347	29.18004	20201	33.71759	21547
4600	4.85476	1470	4.55101	1296	29.38205	19396	33.93306	20693
4800	4.86946	1453	4.56397	1251	29.57601	18657	34.13999	19907
5000	4.88399		4.57648		29.76258		34.33906	

Table 2. 016. NaH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50242	24	3.45417	836	12.90333	63053	16.35750	63859
60	3.50266	31	3.46223	580	13.53386	53416	16.99609	53996
70	3.50297	33	3.46803	439	14.06802	46339	17.53605	46778
80	3.50330	36	3.47242	345	14.53141	40920	18.00383	41265
90	3.50366	38	3.47587	280	14.94061	36637	18.41648	36917
100	3.50404	43	3.47867	232	15.30698	33166	18.78565	33399
110	3.50447	53	3.48099	198	15.63864	30298	19.11964	30495
120	3.50500	72	3.48297	172	15.94162	27885	19.42459	28058
130	3.50572	102	3.48469	154	16.22047	25830	19.70517	25983
140	3.50674	147	3.48623	141	16.47877	24058	19.96500	24199
150	3.50821	208	3.48764	135	16.71935	22513	20.20699	22648
160	3.51029	285	3.48899	133	16.94448	21156	20.43347	21289
170	3.51314	374	3.49032	137	17.15604	19954	20.64636	20091
180	3.51688	477	3.49169	144	17.35558	18882	20.84727	19027
190	3.52165	588	3.49313	157	17.54440	17921	21.03754	18078
200	3.52753	705	3.49470	173	17.72361	17055	21.21832	17228
210	3.53458	822	3.49643	191	17.89416	16270	21.39060	16461
220	3.54280	941	3.49834	214	18.05686	15555	21.55521	15769
230	3.55221	1054	3.50048	237	18.21241	14903	21.71290	15140
240	3.56275	1162	3.50285	262	18.36144	14305	21.86430	14567
250	3.57437	1263	3.50547	289	18.50449	13754	22.00997	14043
260	3.58700	1354	3.50836	316	18.64203	13247	22.15040	13563
270	3.60054	1437	3.51152	344	18.77450	12776	22.28603	13120
280	3.61491	1510	3.51496	370	18.90226	12341	22.41723	12711
290	3.63001	1572	3.51866	397	19.02567	11936	22.54434	12333
300	3.64573	1624	3.52263	424	19.14503	11557	22.66767	11980
310	3.66197	1668	3.52687	448	19.26060	11205	22.78747	11653
320	3.67865	1702	3.53135	472	19.37265	10873	22.90400	11346
330	3.69567	1728	3.53607	495	19.48138	10564	23.01746	11058
340	3.71295	1745	3.54102	516	19.58702	10272	23.12804	10788
350	3.73040	1756	3.54618	536	19.68974	9997	23.23592	10533
360	3.74796	1761	3.55154	555	19.78971	9739	23.34125	10294
370	3.76557	1759	3.55709	571	19.88710	9493	23.44419	10065
380	3.78316	1752	3.56280	588	19.98203	9262	23.54484	9850
390	3.80068	1742	3.56868	602	20.07465	9043	23.64334	9644
400	3.81810	8419	3.57470	3177	20.16508	42285	23.73978	45462
450	3.90229	7745	3.60647	3352	20.58793	38171	24.19440	41523
500	3.97974	6961	3.63999	3411	20.96964	34852	24.60963	38264
550	4.04935	6179	3.67410	3390	21.31816	32115	24.99227	35504
600	4.11114	5458	3.70800	3315	21.63931	29811	25.34731	33127
650	4.16572	4816	3.74115	3208	21.93742	27843	25.67858	31051
700	4.21388	4256	3.77323	3083	22.21585	26139	25.98909	29221
750	4.25644	3775	3.80406	2947	22.47724	24645	26.28130	27593
800	4.29419	3363	3.83353	2811	22.72369	23326	26.55723	26137
850	4.32782	3011	3.86164	2675	22.95695	22149	26.81860	24824
900	4.35793	2709	3.88839	2544	23.17844	21092	27.06684	23636
950	4.38502	2453	3.91383	2418	23.38936	20138	27.30320	22555
1000	4.40955	2231	3.93801	2299	23.59074	19269	27.52875	21569
1050	4.43186	2041	3.96100	2188	23.78343	18478	27.74444	20665
1100	4.45227	1878	3.98288	2082	23.96821	17751	27.95109	19833
1150	4.47105	1734	4.00370	1984	24.14572	17082	28.14942	19066

Table 2. 016. NaH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.48839	3115	4.02354	3698	24.31654	32354	28.34008	36052
1300	4.51954	2733	4.06052	3378	24.64008	30217	28.70060	33596
1400	4.54687	2438	4.09430	3100	24.94225	28355	29.03656	31455
1500	4.57125	2205	4.12530	2857	25.22580	26716	29.35111	29573
1600	4.59330	2020	4.15387	2645	25.49296	25263	29.64684	27908
1700	4.61350	1869	4.18032	2460	25.74559	23965	29.92592	26424
1800	4.63219	1747	4.20492	2295	25.98524	22797	30.19016	25092
1900	4.64966	1646	4.22787	2150	26.21321	21741	30.44108	23892
2000	4.66612	1561	4.24937	2022	26.43062	20783	30.68000	22804
2100	4.68173	1490	4.26959	1908	26.63845	19906	30.90804	21814
2200	4.69663	1429	4.28867	1805	26.83751	19104	31.12618	20910
2300	4.71092	1377	4.30672	1713	27.02855	18366	31.33528	20078
2400	4.72469	1332	4.32385	1630	27.21221	17684	31.53606	19315
2500	4.73801	1293	4.34015	1555	27.38905	17053	31.72921	18608
2600	4.75094	1258	4.35570	1487	27.55958	16467	31.91529	17954
2700	4.76352	1227	4.37057	1426	27.72425	15920	32.09483	17346
2800	4.77579	1200	4.38483	1369	27.88345	15411	32.26829	16780
2900	4.78779	1175	4.39852	1317	28.03756	14934	32.43609	16251
3000	4.79954	2286	4.41169	2496	28.18690	28554	32.59860	31049
3200	4.82240	2212	4.43665	2334	28.47244	26967	32.90909	29302
3400	4.84452	2149	4.45999	2197	28.74211	25556	33.20211	27752
3600	4.86601	2095	4.48196	2076	28.99767	24289	33.47963	26365
3800	4.88696	2048	4.50272	1973	29.24056	23146	33.74328	25120
4000	4.90744	2006	4.52245	1881	29.47202	22111	33.99448	23992
4200	4.92750	1967	4.54126	1801	29.69313	21168	34.23440	22968
4400	4.94717	1932	4.55927	1728	29.90481	20305	34.46408	22034
4600	4.96649	1900	4.57655	1665	30.10786	19513	34.68442	21177
4800	4.98549	1870	4.59320	1606	30.30299	18783	34.89619	20390
5000	5.00419		4.60926		30.49082		35.10009	

Table 2.017. NaD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50205	36	3.47659	427	13.58949	63426	17.06608	63853
60	3.50241	39	3.48086	311	14.22375	53682	17.70461	53993
70	3.50280	44	3.48397	238	14.76057	46538	18.24454	46776
80	3.50324	63	3.48635	191	15.22595	41075	18.71230	41266
90	3.50387	105	3.48826	161	15.63670	36761	19.12496	36922
100	3.50492	181	3.48987	144	16.00431	33269	19.49418	33413
110	3.50673	298	3.49131	140	16.33700	30384	19.82831	30525
120	3.50971	452	3.49271	147	16.64084	27963	20.13356	28109
130	3.51423	639	3.49418	165	16.92047	25900	20.41465	26066
140	3.52062	849	3.49583	192	17.17947	24125	20.67531	24317
150	3.52911	1068	3.49775	229	17.42072	22581	20.91848	22809
160	3.53979	1288	3.50004	270	17.64653	21227	21.14657	21498
170	3.55267	1496	3.50274	318	17.85880	20030	21.36155	20348
180	3.56763	1689	3.50592	369	18.05910	18965	21.56503	19333
190	3.58452	1858	3.50961	420	18.24875	18013	21.75836	18433
200	3.60310	2003	3.51381	472	18.42888	17155	21.94269	17628
210	3.62313	2123	3.51853	524	18.60043	16380	22.11897	16903
220	3.64436	2217	3.52377	572	18.76423	15676	22.28800	16249
230	3.66653	2287	3.52949	618	18.92099	15034	22.45049	15652
240	3.68940	2335	3.53567	662	19.07133	14447	22.60701	15108
250	3.71275	2364	3.54229	701	19.21580	13907	22.75809	14608
260	3.73639	2374	3.54930	737	19.35487	13409	22.90417	14146
270	3.76013	2370	3.55667	769	19.48896	12948	23.04563	13717
280	3.78383	2353	3.56436	797	19.61844	12522	23.18280	13320
290	3.80736	2324	3.57233	822	19.74366	12124	23.31600	12946
300	3.83060	2289	3.58055	844	19.86490	11755	23.44546	12598
310	3.85349	2244	3.58899	862	19.98245	11408	23.57144	12270
320	3.87593	2196	3.59761	877	20.09653	11084	23.69414	11961
330	3.89789	2142	3.60638	889	20.20737	10779	23.81375	11668
340	3.91931	2085	3.61527	898	20.31516	10493	23.93043	11391
350	3.94016	2027	3.62425	906	20.42009	10222	24.04434	11129
360	3.96043	1968	3.63331	911	20.52231	9968	24.15563	10878
370	3.98011	1907	3.64242	914	20.62199	9725	24.26441	10640
380	3.99918	1846	3.65156	915	20.71924	9497	24.37081	10412
390	4.01764	1786	3.66071	915	20.81421	9280	24.47493	10194
400	4.03550	8064	3.66986	4523	20.90701	43487	24.57687	48011
450	4.11614	6756	3.71509	4359	21.34188	39370	25.05698	43728
500	4.18370	5663	3.75868	4128	21.73558	36020	25.49426	40149
550	4.24033	4771	3.79996	3875	22.09578	33232	25.89575	37106
600	4.28804	4053	3.83871	3616	22.42810	30870	26.26681	34487
650	4.32857	3476	3.87487	3368	22.73680	28841	26.61168	32208
700	4.36333	3010	3.90855	3134	23.02521	27074	26.93376	30209
750	4.39343	2632	3.93989	2919	23.29595	25522	27.23585	28441
800	4.41975	2325	3.96908	2721	23.55117	24145	27.52026	26865
850	4.44300	2072	3.99629	2540	23.79262	22915	27.78891	25456
900	4.46372	1863	4.02169	2376	24.02177	21809	28.04347	24184
950	4.48235	1690	4.04545	2228	24.23986	20807	28.28531	23036
1000	4.49925	1544	4.06773	2092	24.44793	19898	28.51567	21989
1050	4.51469	1421	4.08865	1969	24.64691	19066	28.73556	21036
1100	4.52890	1317	4.10834	1858	24.83757	18304	28.94592	20161
1150	4.54207	1228	4.12692	1755	25.02061	17601	29.14753	19357

Table 2.017. NaD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.55435	2237	4.14447	3241	25.19662	33304	29.34110	36545
1300	4.57672	2006	4.17688	2929	25.52966	31063	29.70655	33992
1400	4.59678	1830	4.20617	2666	25.84029	29112	30.04647	31777
1500	4.61508	1692	4.23283	2442	26.13141	27397	30.36424	29840
1600	4.63200	1584	4.25725	2252	26.40538	25878	30.66264	28130
1700	4.64784	1496	4.27977	2087	26.66416	24522	30.94394	26609
1800	4.66280	1425	4.30064	1944	26.90938	23306	31.21003	25249
1900	4.67705	1366	4.32008	1819	27.14244	22205	31.46252	24025
2000	4.69071	1316	4.33827	1710	27.36449	21209	31.70277	22918
2100	4.70387	1274	4.35537	1613	27.57658	20298	31.93195	21912
2200	4.71661	1239	4.37150	1527	27.77956	19467	32.15107	20993
2300	4.72900	1207	4.38677	1452	27.97423	18700	32.36100	20152
2400	4.74107	1180	4.40129	1382	28.16123	17996	32.56252	19378
2500	4.75287	1157	4.41511	1322	28.34119	17342	32.75630	18664
2600	4.76444	1135	4.42833	1266	28.51461	16737	32.94294	18003
2700	4.77579	1116	4.44099	1215	28.68198	16173	33.12297	17388
2800	4.78695	1099	4.45314	1170	28.84371	15647	33.29685	16818
2900	4.79794	1083	4.46484	1129	29.00018	15155	33.46503	16284
3000	4.80877	2124	4.47613	2146	29.15173	28958	33.62787	31103
3200	4.83001	2075	4.49759	2016	29.44131	27328	33.93890	29344
3400	4.85076	2032	4.51775	1907	29.71459	25877	34.23234	27784
3600	4.87108	1994	4.53682	1812	29.97336	24578	34.51018	26390
3800	4.89102	1958	4.55494	1729	30.21914	23408	34.77408	25138
4000	4.91060	1927	4.57223	1658	30.45322	22349	35.02546	24006
4200	4.92987	1898	4.58881	1593	30.67671	21384	35.26552	22977
4400	4.94885	1870	4.60474	1537	30.89055	20503	35.49529	22040
4600	4.96755	1844	4.62011	1486	31.09558	19694	35.71569	21181
4800	4.98599	1819	4.63497	1441	31.29252	18951	35.92750	20391
5000	5.00418		4.64938		31.48203		36.13141	

Table 2.018. NaT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50201	39	3.48402	303	14.00348	63549	17.48750	63853
60	3.50240	50	3.48705	223	14.63897	53771	18.12603	53993
70	3.50290	87	3.48928	175	15.17668	46605	18.66596	46780
80	3.50377	173	3.49103	150	15.64273	41127	19.13376	41278
90	3.50550	324	3.49253	145	16.05400	36805	19.54654	36949
100	3.50874	541	3.49398	156	16.42205	33308	19.91603	33465
110	3.51415	813	3.49554	187	16.75513	30423	20.25068	30610
120	3.52228	1116	3.49741	233	17.05936	28003	20.55678	28235
130	3.53344	1430	3.49974	290	17.33939	25947	20.83913	26237
140	3.54774	1732	3.50264	356	17.59886	24177	21.10150	24534
150	3.56506	2006	3.50620	430	17.84063	22642	21.34684	23071
160	3.58512	2243	3.51050	503	18.06705	21297	21.57755	21801
170	3.60755	2439	3.51553	579	18.28002	20110	21.79556	20688
180	3.63194	2589	3.52132	649	18.48112	19056	22.00244	19706
190	3.65783	2698	3.52781	718	18.67168	18113	22.19950	18830
200	3.68481	2770	3.53499	779	18.85281	17266	22.38780	18045
210	3.71251	2807	3.54278	835	19.02547	16500	22.56825	17336
220	3.74058	2814	3.55113	885	19.19047	15805	22.74161	16689
230	3.76872	2799	3.55998	928	19.34852	15171	22.90850	16099
240	3.79671	2763	3.56926	965	19.50023	14590	23.06949	15555
250	3.82434	2711	3.57891	996	19.64613	14056	23.22504	15053
260	3.85145	2649	3.58887	1022	19.78669	13563	23.37557	14585
270	3.87794	2576	3.59909	1042	19.92232	13108	23.52142	14150
280	3.90370	2497	3.60951	1058	20.05340	12685	23.66292	13742
290	3.92867	2414	3.62009	1069	20.18025	12291	23.80034	13360
300	3.95281	2329	3.63078	1077	20.30316	11922	23.93394	13000
310	3.97610	2243	3.64155	1080	20.42238	11579	24.06394	12659
320	3.99853	2156	3.65235	1082	20.53817	11255	24.19053	12337
330	4.02009	2070	3.66317	1081	20.65072	10952	24.31390	12032
340	4.04079	1987	3.67398	1076	20.76024	10666	24.43422	11742
350	4.06066	1904	3.68474	1071	20.86690	10395	24.55164	11467
360	4.07970	1825	3.69545	1064	20.97085	10140	24.66631	11203
370	4.09795	1748	3.70609	1054	21.07225	9897	24.77834	10952
380	4.11543	1675	3.71663	1044	21.17122	9668	24.88786	10711
390	4.13218	1603	3.72707	1033	21.26790	9449	24.99497	10483
400	4.14821	7058	3.73740	4971	21.36239	44311	25.09980	49281
450	4.21879	5720	3.78711	4612	21.80550	40143	25.59261	44756
500	4.27599	4683	3.83323	4245	22.20693	36736	26.04017	40981
550	4.32282	3885	3.87568	3893	22.57429	33893	26.44998	37785
600	4.36167	3268	3.91461	3568	22.91322	31476	26.82783	35045
650	4.39435	2786	3.95029	3274	23.22798	29397	27.17828	32670
700	4.42221	2408	3.98303	3010	23.52195	27584	27.50498	30594
750	4.44629	2107	4.01313	2775	23.79779	25990	27.81092	28765
800	4.46736	1866	4.04088	2564	24.05769	24575	28.09857	27140
850	4.48602	1670	4.06652	2378	24.30344	23312	28.36997	25689
900	4.50272	1510	4.09030	2211	24.53656	22175	28.62686	24387
950	4.51782	1378	4.11241	2062	24.75831	21147	28.87073	23209
1000	4.53160	1268	4.13303	1928	24.96978	20212	29.10282	22140
1050	4.54428	1177	4.15231	1809	25.17190	19359	29.32422	21168
1100	4.55605	1099	4.17040	1701	25.36549	18576	29.53590	20277
1150	4.56704	1033	4.18741	1604	25.55125	17856	29.73867	19459

Table 2.018. NaT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.57737	1904	4.20345	2950	25.72981	33764	29.93326	36715
1300	4.59641	1734	4.23295	2659	26.06745	31469	30.30041	34128
1400	4.61375	1606	4.25954	2416	26.38214	29471	30.64169	31887
1500	4.62981	1504	4.28370	2211	26.67685	27718	30.96056	29928
1600	4.64485	1425	4.30581	2036	26.95403	26166	31.25984	28203
1700	4.65910	1361	4.32617	1888	27.21569	24782	31.54187	26669
1800	4.67271	1308	4.34505	1759	27.46351	23540	31.80856	25299
1900	4.68579	1265	4.36264	1648	27.69891	22420	32.06155	24068
2000	4.69844	1228	4.37912	1550	27.92311	21403	32.30223	22953
2100	4.71072	1197	4.39462	1464	28.13714	20478	32.53176	21943
2200	4.72269	1170	4.40926	1388	28.34192	19631	32.75119	21019
2300	4.73439	1146	4.42314	1321	28.53823	18853	32.96138	20173
2400	4.74585	1126	4.43635	1260	28.72676	18136	33.16311	19397
2500	4.75711	1107	4.44895	1207	28.90812	17473	33.35708	18679
2600	4.76818	1090	4.46102	1158	29.08285	16858	33.54387	18016
2700	4.77908	1076	4.47260	1114	29.25143	16286	33.72403	17400
2800	4.78984	1062	4.48374	1074	29.41429	15752	33.89803	16827
2900	4.80046	1049	4.49448	1037	29.57181	15255	34.06630	16292
3000	4.81095	2064	4.50485	1978	29.72436	29138	34.22922	31115
3200	4.83159	2024	4.52463	1865	30.01574	27486	34.54037	29352
3400	4.85183	1987	4.54328	1770	30.29060	26020	34.83389	27789
3600	4.87170	1954	4.56098	1687	30.55080	24705	35.11178	26392
3800	4.89124	1924	4.57785	1615	30.79785	23523	35.37570	25138
4000	4.91048	1897	4.59400	1552	31.03308	22452	35.62708	24004
4200	4.92945	1869	4.60952	1497	31.25760	21478	35.86712	22976
4400	4.94814	1845	4.62449	1447	31.47238	20589	36.09688	22036
4600	4.96659	1821	4.63896	1403	31.67827	19773	36.31724	21176
4800	4.98480	1798	4.65299	1364	31.87600	19022	36.52900	20385
5000	5.00278		4.66663		32.06622		36.73285	

Table 2.019. KH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50182	25	3.46823	562	14.01883	63286	17.48706	63848
60	3.50207	27	3.47385	405	14.65169	53582	18.12554	53987
70	3.50234	31	3.47790	307	15.18751	46461	18.66541	46769
80	3.50265	34	3.48097	243	15.65212	41015	19.13310	41257
90	3.50299	46	3.48340	198	16.06227	36712	19.54567	36910
100	3.50345	69	3.48538	167	16.42939	33227	19.91477	33395
110	3.50414	114	3.48705	147	16.76166	30348	20.24872	30494
120	3.50528	181	3.48852	135	17.06514	27928	20.55366	28064
130	3.50709	275	3.48987	133	17.34442	25868	20.83430	26000
140	3.50984	393	3.49120	136	17.60310	24091	21.09430	24228
150	3.51377	533	3.49256	149	17.84401	22546	21.33658	22694
160	3.51910	687	3.49405	166	18.06947	21187	21.56352	21354
170	3.52597	850	3.49571	191	18.28134	19986	21.77706	20177
180	3.53447	1014	3.49762	220	18.48120	18917	21.97883	19136
190	3.54461	1177	3.49982	253	18.67037	17958	22.17019	18211
200	3.55638	1329	3.50235	288	18.84995	17095	22.35230	17383
210	3.56967	1471	3.50523	326	19.02090	16313	22.52613	16640
220	3.58438	1598	3.50849	364	19.18403	15604	22.69253	15968
230	3.60036	1708	3.51213	403	19.34007	14956	22.85221	15359
240	3.61744	1803	3.51616	441	19.48963	14363	23.00580	14803
250	3.63547	1881	3.52057	478	19.63326	13817	23.15383	14295
260	3.65428	1943	3.52535	513	19.77143	13314	23.29678	13828
270	3.67371	1990	3.53048	547	19.90457	12849	23.43506	13396
280	3.69361	2024	3.53595	579	20.03306	12419	23.56902	12997
290	3.71385	2043	3.54174	607	20.15725	12017	23.69899	12625
300	3.73428	2053	3.54781	635	20.27742	11643	23.82524	12278
310	3.75481	2053	3.55416	659	20.39385	11295	23.94802	11953
320	3.77534	2043	3.56075	681	20.50680	10967	24.06755	11649
330	3.79577	2026	3.56756	701	20.61647	10661	24.18404	11362
340	3.81603	2004	3.57457	719	20.72308	10372	24.29766	11090
350	3.83607	1974	3.58176	734	20.82680	10100	24.40856	10835
360	3.85581	1943	3.58910	747	20.92780	9844	24.51691	10591
370	3.87524	1905	3.59657	759	21.02624	9602	24.62282	10360
380	3.89429	1867	3.60416	768	21.12226	9372	24.72642	10140
390	3.91296	1826	3.61184	775	21.21598	9154	24.82782	9929
400	3.93122	8470	3.61959	3944	21.30752	42859	24.92711	46804
450	4.01592	7361	3.65903	3946	21.73611	38757	25.39515	42702
500	4.08953	6336	3.69849	3850	22.12368	35432	25.82217	39282
550	4.15289	5440	3.73699	3698	22.47800	32676	26.21499	36374
600	4.20729	4682	3.77397	3518	22.80476	30348	26.57873	33866
650	4.25411	4050	3.80915	3326	23.10824	28352	26.91739	31678
700	4.29461	3525	3.84241	3135	23.39176	26618	27.23417	29753
750	4.32986	3090	3.87376	2949	23.65794	25095	27.53170	28045
800	4.36076	2728	3.90325	2773	23.90889	23748	27.81215	26521
850	4.38804	2427	3.93098	2608	24.14637	22543	28.07736	25151
900	4.41231	2175	3.95706	2454	24.37180	21461	28.32887	23915
950	4.43406	1962	3.98160	2313	24.58641	20483	28.56802	22795
1000	4.45368	1784	4.00473	2181	24.79124	19592	28.79597	21773
1050	4.47152	1631	4.02654	2060	24.98716	18780	29.01370	20840
1100	4.48783	1501	4.04714	1949	25.17496	18033	29.22210	19983
1150	4.50284	1389	4.06663	1847	25.35529	17347	29.42193	19193

Table 2.019. KH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.51673	2501	4.08510	3418	25.52876	32836	29.61386	36255
1300	4.54174	2209	4.11928	3098	25.85712	30642	29.97641	33740
1400	4.56383	1984	4.15026	2825	26.16354	28732	30.31381	31556
1500	4.58367	1809	4.17851	2589	26.45086	27051	30.62937	29641
1600	4.60176	1669	4.20440	2387	26.72137	25562	30.92578	27949
1700	4.61845	1558	4.22827	2212	26.97699	24231	31.20527	26443
1800	4.63403	1466	4.25039	2058	27.21930	23037	31.46970	25094
1900	4.64869	1391	4.27097	1924	27.44967	21956	31.72064	23880
2000	4.66260	1328	4.29021	1805	27.66923	20977	31.95944	22782
2100	4.67588	1276	4.30826	1700	27.87900	20081	32.18726	21782
2200	4.68864	1231	4.32526	1607	28.07981	19263	32.40508	20869
2300	4.70095	1192	4.34133	1523	28.27244	18509	32.61377	20032
2400	4.71287	1159	4.35656	1449	28.45753	17814	32.81409	19263
2500	4.72446	1129	4.37105	1381	28.63567	17170	33.00672	18551
2600	4.73575	1104	4.38486	1320	28.80737	16574	33.19223	17894
2700	4.74679	1081	4.39806	1265	28.97311	16018	33.37117	17283
2800	4.75760	1060	4.41071	1214	29.13329	15499	33.54400	16713
2900	4.76820	1042	4.42285	1169	29.28828	15014	33.71113	16183
3000	4.77862	2035	4.43454	2214	29.43842	28691	33.87296	30906
3200	4.79897	1979	4.45668	2072	29.72533	27081	34.18202	29153
3400	4.81876	1932	4.47740	1950	29.99614	25648	34.47355	27598
3600	4.83808	1889	4.49690	1846	30.25262	24364	34.74953	26209
3800	4.85697	1853	4.51536	1754	30.49626	23205	35.01162	24960
4000	4.87550	1819	4.53290	1675	30.72831	22157	35.26122	23832
4200	4.89369	1790	4.54965	1605	30.94988	21203	35.49954	22807
4400	4.91159	1761	4.56570	1542	31.16191	20329	35.72761	21872
4600	4.92920	1735	4.58112	1487	31.36520	19529	35.94633	21015
4800	4.94655	1711	4.59599	1436	31.56049	18791	36.15648	20228
5000	4.96366		4.61035		31.74840		36.35876	

Table 2.020. KD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50165	32	3.48490	281	14.75305	63563	18.23795	63845
60	3.50197	43	3.48771	207	15.38868	53780	18.87640	53986
70	3.50240	80	3.48978	162	15.92648	46610	19.41626	46773
80	3.50320	167	3.49140	139	16.39258	41131	19.88399	41270
90	3.50487	319	3.49279	136	16.80389	36808	20.29669	36943
100	3.50806	537	3.49415	149	17.17197	33309	20.66612	33458
110	3.51343	810	3.49564	180	17.50506	30424	21.00070	30604
120	3.52153	1114	3.49744	226	17.80930	28003	21.30674	28229
130	3.53267	1428	3.49970	284	18.08933	25945	21.58903	26230
140	3.54695	1730	3.50254	353	18.34878	24177	21.85133	24529
150	3.56425	2006	3.50607	425	18.59055	22641	22.09662	23066
160	3.58431	2242	3.51032	500	18.81696	21296	22.32728	21796
170	3.60673	2436	3.51532	574	19.02992	20109	22.54524	20684
180	3.63109	2588	3.52106	647	19.23101	19054	22.75208	19701
190	3.65697	2696	3.52753	714	19.42155	18112	22.94909	18826
200	3.68393	2767	3.53467	777	19.60267	17264	23.13735	18040
210	3.71160	2803	3.54244	832	19.77531	16499	23.31775	17331
220	3.73963	2812	3.55076	883	19.94030	15803	23.49106	16686
230	3.76775	2794	3.55959	925	20.09833	15169	23.65792	16094
240	3.79569	2759	3.56884	963	20.25002	14588	23.81886	15551
250	3.82328	2708	3.57847	994	20.39590	14054	23.97437	15048
260	3.85036	2644	3.58841	1019	20.53644	13562	24.12485	14581
270	3.87680	2571	3.59860	1040	20.67206	13106	24.27066	14146
280	3.90251	2492	3.60900	1055	20.80312	12683	24.41212	13738
290	3.92743	2410	3.61955	1067	20.92995	12289	24.54950	13356
300	3.95153	2324	3.63022	1074	21.05284	11920	24.68306	12995
310	3.97477	2237	3.64096	1078	21.17204	11577	24.81301	12655
320	3.99714	2151	3.65174	1080	21.28781	11254	24.93956	12333
330	4.01865	2066	3.66254	1078	21.40035	10949	25.06289	12028
340	4.03931	1981	3.67332	1074	21.50984	10664	25.18317	11737
350	4.05912	1899	3.68406	1068	21.61648	10393	25.30054	11462
360	4.07811	1820	3.69474	1061	21.72041	10138	25.41516	11199
370	4.09631	1744	3.70535	1052	21.82179	9896	25.52715	10947
380	4.11375	1669	3.71587	1042	21.92075	9665	25.63662	10708
390	4.13044	1598	3.72629	1030	22.01740	9447	25.74370	10477
400	4.14642	7034	3.73659	4959	22.11187	44301	25.84847	49259
450	4.21676	5695	3.78618	4600	22.55488	40133	26.34106	44733
500	4.27371	4660	3.83218	4233	22.95621	36726	26.78839	40359
550	4.32031	3862	3.87451	3881	23.32347	33881	27.19798	37762
600	4.35893	3245	3.91332	3556	23.66228	31466	27.57560	35022
650	4.39138	2764	3.94888	3262	23.97694	29385	27.92582	32647
700	4.41902	2386	3.98150	2998	24.27079	27574	28.25229	30572
750	4.44288	2085	4.01148	2763	24.54653	25978	28.55801	28742
800	4.46373	1844	4.03911	2553	24.80631	24565	28.84543	27117
850	4.48217	1648	4.06464	2366	25.05196	23301	29.11660	25667
900	4.49865	1489	4.08830	2200	25.28497	22164	29.37327	24364
950	4.51354	1357	4.11030	2050	25.50661	21135	29.61691	23186
1000	4.52711	1247	4.13080	1917	25.71796	20202	29.84877	22119
1050	4.53958	1156	4.14997	1798	25.91998	19347	30.06996	21145
1100	4.55114	1078	4.16795	1690	26.11345	18565	30.28141	20254
1150	4.56192	1012	4.18485	1592	26.29910	17845	30.48395	19437

Table 2.020. KD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.57204	1862	4.20077	2929	26.47755	33742	30.67832	36671
1300	4.59066	1694	4.23006	2637	26.81497	31446	31.04503	34083
1400	4.60760	1564	4.25643	2394	27.12943	29449	31.38586	31844
1500	4.62324	1464	4.28037	2189	27.42392	27696	31.70430	29885
1600	4.63788	1385	4.30226	2015	27.70088	26144	32.00315	28159
1700	4.65173	1322	4.32241	1867	27.96232	24759	32.28474	26626
1800	4.66495	1269	4.34108	1738	28.20991	23519	32.55100	25256
1900	4.67764	1225	4.35846	1627	28.44510	22397	32.80356	24025
2000	4.68989	1190	4.37473	1529	28.66907	21382	33.04381	22911
2100	4.70179	1158	4.39002	1444	28.88289	20456	33.27292	21899
2200	4.71337	1132	4.40446	1367	29.08745	19609	33.49191	20977
2300	4.72469	1109	4.41813	1301	29.28354	18831	33.70168	20132
2400	4.73578	1088	4.43114	1240	29.47185	18114	33.90300	19354
2500	4.74666	1070	4.44354	1187	29.65299	17452	34.09654	18638
2600	4.75736	1054	4.45541	1138	29.82751	16836	34.28292	17974
2700	4.76790	1040	4.46679	1094	29.99587	16265	34.46266	17359
2800	4.77830	1025	4.47773	1054	30.15852	15731	34.63625	16785
2900	4.78855	1014	4.48827	1018	30.31583	15233	34.80410	16251
3000	4.79869	1994	4.49845	1939	30.46816	29095	34.96661	31034
3200	4.81863	1955	4.51784	1827	30.75911	27445	35.27695	29272
3400	4.83818	1920	4.53611	1731	31.03356	25977	35.56967	27709
3600	4.85738	1888	4.55342	1650	31.29333	24663	35.84676	26313
3800	4.87626	1859	4.56992	1578	31.53996	23482	36.10989	25059
4000	4.89485	1832	4.58570	1516	31.77478	22410	36.36048	23927
4200	4.91317	1807	4.60086	1461	31.99888	21437	36.59975	22898
4400	4.93124	1783	4.61547	1412	32.21325	20548	36.82873	21959
4600	4.94907	1760	4.62959	1368	32.41873	19733	37.04832	21101
4800	4.96667	1739	4.64327	1328	32.61606	18982	37.25933	20310
5000	4.98406		4.65655		32.80588		37.46243	

Table 2.021. KT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50164	49	3.48955	205	15.16261	63641	18.65216	63847
60	3.50213	119	3.49160	158	15.79902	53835	19.29063	53993
70	3.50332	282	3.49318	142	16.33737	46655	19.83056	46796
80	3.50614	564	3.49460	156	16.80392	41169	20.29852	41326
90	3.51178	946	3.49616	200	17.21561	36846	20.71178	37045
100	3.52124	1387	3.49816	270	17.58407	33353	21.08223	33623
110	3.53511	1838	3.50086	359	17.91760	30476	21.41846	30835
120	3.55349	2258	3.50445	461	18.22236	28068	21.72681	28530
130	3.57607	2620	3.50906	571	18.50304	26025	22.01211	26595
140	3.60227	2910	3.51477	679	18.76329	24272	22.27806	24951
150	3.63137	3123	3.52156	783	19.00601	22752	22.52757	23535
160	3.66260	3264	3.52939	879	19.23353	21423	22.76292	22302
170	3.69524	3341	3.53818	965	19.44776	20250	22.98594	21216
180	3.72865	3365	3.54783	1040	19.65026	19210	23.19810	20250
190	3.76230	3344	3.55823	1104	19.84236	18279	23.40060	19383
200	3.79574	3289	3.56927	1157	20.02515	17443	23.59443	18599
210	3.82863	3207	3.58084	1200	20.19958	16685	23.78042	17886
220	3.86070	3109	3.59284	1232	20.36643	15998	23.95928	17230
230	3.89179	2996	3.60516	1257	20.52641	15370	24.13158	16627
240	3.92175	2875	3.61773	1274	20.68011	14794	24.29785	16068
250	3.95050	2751	3.63047	1285	20.82805	14264	24.45853	15548
260	3.97801	2625	3.64332	1288	20.97069	13774	24.61401	15063
270	4.00426	2500	3.65620	1288	21.10843	13320	24.76464	14608
280	4.02926	2377	3.66908	1284	21.24163	12898	24.91072	14181
290	4.05303	2258	3.68192	1275	21.37061	12504	25.05253	13779
300	4.07561	2143	3.69467	1263	21.49565	12135	25.19032	13399
310	4.09704	2033	3.70730	1250	21.61700	11790	25.32431	13040
320	4.11737	1929	3.71980	1235	21.73490	11466	25.45471	12700
330	4.13666	1828	3.73215	1216	21.84956	11159	25.58171	12376
340	4.15494	1735	3.74431	1199	21.96115	10872	25.70547	12070
350	4.17229	1645	3.75630	1178	22.06987	10598	25.82617	11777
360	4.18874	1562	3.76808	1158	22.17585	10340	25.94394	11498
370	4.20436	1483	3.77966	1138	22.27925	10095	26.05892	11232
380	4.21919	1408	3.79104	1116	22.38020	9862	26.17124	10978
390	4.23327	1338	3.80220	1094	22.47882	9640	26.28102	10735
400	4.24665	5784	3.81314	5151	22.57522	45215	26.38837	50366
450	4.30449	4578	3.86465	4636	23.02737	40963	26.89203	45598
500	4.35027	3694	3.91101	4167	23.43700	37474	27.34801	41642
550	4.38721	3038	3.95268	3752	23.81174	34557	27.76443	38308
600	4.41759	2545	3.99020	3388	24.15731	32075	28.14751	35463
650	4.44304	2170	4.02408	3072	24.47806	29936	28.50214	33008
700	4.46474	1879	4.05480	2797	24.77742	28072	28.83222	30869
750	4.48353	1652	4.08277	2557	25.05814	26432	29.14091	28990
800	4.50005	1471	4.10834	2349	25.32246	24978	29.43081	27326
850	4.51476	1327	4.13183	2164	25.57224	23679	29.70407	25844
900	4.52803	1209	4.15347	2004	25.80903	22511	29.96251	24515
950	4.54012	1113	4.17351	1861	26.03414	21456	30.20766	23316
1000	4.55125	1033	4.19212	1735	26.24870	20496	30.44082	22231
1050	4.56158	966	4.20947	1623	26.45366	19620	30.66313	21243
1100	4.57124	911	4.22570	1522	26.64986	18818	30.87556	20341
1150	4.58035	862	4.24092	1433	26.83804	18080	31.07897	19512

Table 2. 021. KT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.58897	1610	4.25525	2630	27.01884	34166	31.27409	36796
1300	4.60507	1489	4.28155	2364	27.36050	31817	31.64205	34182
1400	4.61996	1396	4.30519	2146	27.67867	29777	31.98387	31923
1500	4.63392	1324	4.32665	1962	27.97644	27988	32.30310	29949
1600	4.64716	1267	4.34627	1807	28.25632	26404	32.60259	28211
1700	4.65983	1220	4.36434	1676	28.52036	24994	32.88470	26670
1800	4.67203	1183	4.38110	1563	28.77030	23729	33.15140	25292
1900	4.68386	1151	4.39673	1464	29.00759	22590	33.40432	24055
2000	4.69537	1124	4.41137	1379	29.23349	21557	33.64487	22936
2100	4.70661	1102	4.42516	1305	29.44906	20616	33.87423	21921
2200	4.71763	1081	4.43821	1238	29.65522	19757	34.09344	20994
2300	4.72844	1063	4.45059	1180	29.85279	18966	34.30338	20147
2400	4.73907	1048	4.46239	1128	30.04245	18240	34.50485	19367
2500	4.74955	1034	4.47367	1081	30.22485	17567	34.69852	18648
2600	4.75989	1021	4.48448	1039	30.40052	16944	34.88500	17983
2700	4.77010	1009	4.49487	1001	30.56996	16365	35.06483	17366
2800	4.78019	998	4.50488	966	30.73361	15825	35.23849	16792
2900	4.79017	989	4.51454	936	30.89186	15321	35.40641	16256
3000	4.80006	1950	4.52390	1787	31.04507	29254	35.56897	31042
3200	4.81956	1916	4.54177	1690	31.33761	27586	35.87939	29276
3400	4.83872	1887	4.55867	1609	31.61347	26102	36.17215	27711
3600	4.85759	1858	4.57476	1537	31.87449	24776	36.44926	26313
3800	4.87617	1834	4.59013	1476	32.12225	23583	36.71239	25058
4000	4.89451	1808	4.60489	1423	32.35808	22502	36.96297	23925
4200	4.91259	1786	4.61912	1374	32.58310	21520	37.20222	22894
4400	4.93045	1764	4.63286	1333	32.79830	20623	37.43116	21956
4600	4.94809	1743	4.64619	1294	33.00453	19802	37.65072	21096
4800	4.96552	1723	4.65913	1260	33.20255	19045	37.86168	20305
5000	4.98275		4.67173		33.39300		38.06473	

Table 2.022. RbH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50207	32	3.47216	501	15.29042	63352	18.76259	63853
60	3.50239	35	3.47717	363	15.92394	53630	19.40112	53992
70	3.50274	38	3.48080	277	16.46024	46498	19.94104	46775
80	3.50312	44	3.48357	219	16.92522	41044	20.40879	41263
90	3.50356	63	3.48576	181	17.33566	36736	20.82142	36917
100	3.50419	100	3.48757	155	17.70302	33247	21.19059	33403
110	3.50519	163	3.48912	141	18.03549	30366	21.52462	30506
120	3.50682	257	3.49053	134	18.33915	27944	21.82968	28079
130	3.50939	380	3.49187	138	18.61859	25883	22.11047	26020
140	3.51319	528	3.49325	150	18.87742	24106	22.37067	24256
150	3.51847	696	3.49475	169	19.11848	22560	22.61323	22729
160	3.52543	876	3.49644	195	19.34408	21202	22.84052	21398
170	3.53419	1060	3.49839	228	19.55610	20003	23.05450	20230
180	3.54479	1239	3.50067	264	19.75613	18934	23.25680	19198
190	3.55718	1410	3.50331	304	19.94547	17977	23.44878	18281
200	3.57128	1566	3.50635	346	20.12524	17116	23.63159	17462
210	3.58694	1705	3.50981	388	20.29640	16336	23.80621	16725
220	3.60399	1826	3.51369	432	20.45976	15629	23.97346	16061
230	3.62225	1928	3.51801	474	20.61605	14982	24.13407	15456
240	3.64153	2010	3.52275	516	20.76587	14391	24.28863	14906
250	3.66163	2074	3.52791	554	20.90978	13848	24.43769	14402
260	3.68237	2120	3.53345	590	21.04826	13346	24.58171	13937
270	3.70357	2152	3.53935	625	21.18172	12883	24.72108	13507
280	3.72509	2170	3.54560	666	21.31055	12453	24.85615	13110
290	3.74679	2174	3.55216	685	21.43508	12054	24.98725	12739
300	3.76853	2167	3.55901	711	21.55562	11682	25.11464	12392
310	3.79020	2153	3.56612	734	21.67244	11333	25.23856	12068
320	3.81173	2129	3.57346	755	21.78577	11008	25.35924	11762
330	3.83302	2100	3.58101	772	21.89585	10702	25.47686	11474
340	3.85402	2064	3.58873	787	22.00287	10414	25.59160	11201
350	3.87466	2025	3.59660	801	22.10701	10143	25.70361	10944
360	3.89491	1982	3.60461	811	22.20844	9887	25.81305	10699
370	3.91473	1937	3.61272	821	22.30731	9646	25.92004	10466
380	3.93410	1889	3.62093	827	22.40377	9416	26.02470	10243
390	3.95299	1840	3.62920	833	22.49793	9199	26.12713	10032
400	3.97139	8460	3.63753	4191	22.58992	43085	26.22745	47277
450	4.05599	7262	3.67944	4138	23.02077	38982	26.70022	43120
500	4.12861	6198	3.72082	3996	23.41059	35652	27.13142	39648
550	4.19059	5294	3.76078	3808	23.76711	32888	27.52790	36696
600	4.24353	4541	3.79886	3600	24.09599	30551	27.89486	34150
650	4.28894	3923	3.83486	3387	24.40150	28545	28.23636	31932
700	4.32817	3415	3.86873	3179	24.68695	26801	28.55568	29980
750	4.36232	2996	3.90052	2982	24.95496	25269	28.85548	28252
800	4.39228	2652	3.93034	2797	25.20765	23913	29.13800	26709
850	4.41880	2367	3.95831	2625	25.44678	22700	29.40509	25325
900	4.44247	2128	3.98456	2467	25.67378	21610	29.65834	24078
950	4.46375	1929	4.00923	2322	25.88988	20624	29.89912	22945
1000	4.48304	1761	4.03245	2188	26.09612	19728	30.12857	21917
1050	4.50065	1618	4.05433	2066	26.29340	18909	30.34774	20974
1100	4.51683	1496	4.07499	1954	26.48249	18158	30.55748	20112
1150	4.53179	1393	4.09453	1851	26.66407	17465	30.75860	19317

Table 2.022. RbH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.54572	2527	4.11304	3428	26.83872	33060	30.95177	36487
1300	4.57099	2255	4.14732	3108	27.16932	30850	31.31664	33959
1400	4.59354	2045	4.17840	2837	27.47782	28927	31.65623	31763
1500	4.61399	1883	4.20677	2604	27.76709	27234	31.97386	29839
1600	4.63282	1752	4.23281	2405	28.03943	25734	32.27225	28139
1700	4.65034	1649	4.25686	2233	28.29677	24396	32.55364	26628
1800	4.66683	1562	4.27919	2081	28.54073	23193	32.81992	25274
1900	4.68245	1493	4.30000	1950	28.77266	22106	33.07266	24056
2000	4.69738	1433	4.31950	1834	28.99372	21120	33.31322	22954
2100	4.71171	1383	4.33784	1731	29.20492	20219	33.54276	21951
2200	4.72554	1340	4.35515	1640	29.40711	19396	33.76227	21035
2300	4.73894	1303	4.37155	1558	29.60107	18639	33.97262	20197
2400	4.75197	1270	4.38713	1484	29.78746	17939	34.17459	19424
2500	4.76467	1243	4.40197	1419	29.96685	17293	34.36883	18712
2600	4.77710	1216	4.41616	1360	30.13978	16692	34.55595	18052
2700	4.78926	1195	4.42976	1305	30.30670	16134	34.73647	17439
2800	4.80121	1173	4.44281	1256	30.46804	15613	34.91086	16868
2900	4.81294	1156	4.45537	1212	30.62417	15125	35.07954	16337
3000	4.82450	2260	4.46749	2302	30.77542	28906	35.24291	31209
3200	4.84710	2203	4.49051	2162	31.06448	27290	35.55500	29451
3400	4.86913	2153	4.51213	2044	31.33738	25849	35.84951	27893
3600	4.89066	2108	4.53257	1940	31.59587	24558	36.12844	26499
3800	4.91174	2067	4.55197	1851	31.84145	23396	36.39343	25247
4000	4.93241	2031	4.57048	1772	32.07541	22343	36.64590	24114
4200	4.95272	1997	4.58820	1702	32.29884	21384	36.88704	23087
4400	4.97269	1966	4.60522	1641	32.51268	20507	37.11791	22148
4600	4.99235	1936	4.62163	1585	32.71775	19703	37.33939	21288
4800	5.01171	1907	4.63748	1535	32.91478	18963	37.55227	20497
5000	5.03078		4.65283		33.10441		37.75724	

Table 2.023. RbD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50194	40	3.48636	263	15.97069	63588	19.45705	63852
60	3.50234	61	3.48899	195	16.60657	53798	20.09557	53993
70	3.50295	122	3.49094	156	17.14455	46626	20.63550	46782
80	3.50417	253	3.49250	143	17.61081	41144	21.10332	41286
90	3.50670	463	3.49393	148	18.02225	36820	21.51618	36969
100	3.51133	747	3.49541	177	18.39045	33323	21.88587	33499
110	3.51880	1078	3.49718	222	18.72368	30438	22.22086	30661
120	3.52958	1429	3.49940	285	19.02806	28021	22.52747	28306
130	3.54387	1774	3.50225	359	19.30827	25967	22.81053	26326
140	3.56161	2088	3.50584	440	19.56794	24203	23.07379	24642
150	3.58249	2358	3.51024	524	19.80997	22671	23.32021	23195
160	3.60607	2580	3.51548	607	20.03668	21330	23.55216	21938
170	3.63187	2749	3.52155	689	20.24998	20148	23.77154	20836
180	3.65936	2868	3.52844	764	20.45146	19097	23.97990	19862
190	3.68804	2943	3.53608	833	20.64243	18159	24.17852	18992
200	3.71747	2977	3.54441	895	20.82402	17315	24.36844	18209
210	3.74724	2980	3.55336	949	20.99717	16552	24.55053	17501
220	3.77704	2954	3.56285	996	21.16269	15859	24.72554	16855
230	3.80658	2907	3.57281	1035	21.32128	15227	24.89409	16262
240	3.83565	2843	3.58316	1067	21.47355	14649	25.05671	15716
250	3.86408	2767	3.59383	1093	21.62004	14117	25.21387	15210
260	3.89175	2682	3.60476	1112	21.76121	13625	25.36597	14738
270	3.91857	2590	3.61588	1128	21.89746	13170	25.51335	14298
280	3.94447	2495	3.62716	1137	22.02916	12748	25.65633	13885
290	3.96942	2398	3.63853	1144	22.15664	12355	25.79518	13498
300	3.99340	2301	3.64997	1145	22.28019	11987	25.93016	13132
310	4.01641	2205	3.66142	1144	22.40006	11642	26.06148	12787
320	4.03846	2110	3.67286	1140	22.51648	11320	26.18935	12459
330	4.05956	2018	3.68426	1134	22.62968	11015	26.31394	12149
340	4.07974	1930	3.69560	1125	22.73983	10729	26.43543	11855
350	4.09904	1843	3.70685	1115	22.84712	10458	26.55398	11573
360	4.11747	1761	3.71800	1104	22.95170	10202	26.66971	11306
370	4.13508	1682	3.72904	1091	23.05372	9960	26.78277	11050
380	4.15190	1606	3.73995	1077	23.15332	9728	26.89327	10805
390	4.16796	1535	3.75072	1062	23.25060	9510	27.00132	10572
400	4.18331	6719	3.76134	5076	23.34570	44599	27.10704	49675
450	4.25050	5406	3.81210	4664	23.79169	40409	27.60379	45074
500	4.30456	4410	3.85874	4260	24.19578	36981	28.05453	41240
550	4.34866	3653	3.90134	3884	24.56559	34115	28.46693	38000
600	4.38519	3072	3.94018	3545	24.90674	31681	28.84693	35225
650	4.41591	2624	3.97563	3241	25.22355	29583	29.19918	32824
700	4.44215	2272	4.00804	2971	25.51938	27755	29.52742	30727
750	4.46487	1995	4.03775	2733	25.79693	26148	29.83469	28881
800	4.48482	1773	4.06508	2523	26.05841	24721	30.12350	27243
850	4.50255	1593	4.09031	2335	26.30562	23446	30.39593	25782
900	4.51848	1448	4.11366	2169	26.54008	22301	30.65375	24469
950	4.53296	1326	4.13535	2022	26.76309	21263	30.89844	23285
1000	4.54622	1227	4.15557	1890	26.97572	20321	31.13129	22212
1050	4.55849	1143	4.17447	1771	27.17893	19461	31.35341	21232
1100	4.56992	1072	4.19218	1666	27.37354	18673	31.56573	20338
1150	4.58064	1013	4.20884	1571	27.56027	17946	31.76911	19517

Table 2. 023. RbD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.59077	1877	4.22455	2890	27.73973	33930	31.96428	36821
1300	4.60954	1723	4.25345	2606	28.07903	31619	32.33249	34224
1400	4.62677	1606	4.27951	2369	28.39522	29608	32.67473	31977
1500	4.64283	1513	4.30320	2171	28.69130	27842	32.99450	30013
1600	4.65796	1441	4.32491	2001	28.96972	26281	33.29463	28282
1700	4.67237	1382	4.34492	1858	29.23253	24888	33.57745	26746
1800	4.68619	1333	4.36350	1734	29.48141	23639	33.84491	25373
1900	4.69952	1293	4.38084	1626	29.71780	22513	34.09864	24139
2000	4.71245	1259	4.39710	1531	29.94293	21490	34.34003	23022
2100	4.72504	1229	4.41241	1449	30.15783	20561	34.57025	22010
2200	4.73733	1204	4.42690	1376	30.36344	19709	34.79035	21085
2300	4.74937	1182	4.44066	1311	30.56053	18927	35.00120	20238
2400	4.76119	1162	4.45377	1253	30.74980	18207	35.20358	19460
2500	4.77281	1144	4.46630	1201	30.93187	17541	35.39818	18741
2600	4.78425	1128	4.47831	1154	31.10728	16923	35.58559	18077
2700	4.79553	1114	4.48985	1112	31.27651	16348	35.76636	17461
2800	4.80667	1100	4.50097	1073	31.43999	15814	35.94097	16886
2900	4.81767	1088	4.51170	1038	31.59813	15313	36.10983	16351
3000	4.82855	2141	4.52208	1983	31.75126	29249	36.27334	31232
3200	4.84996	2101	4.54191	1874	32.04375	27591	36.58566	29466
3400	4.87097	2063	4.56065	1781	32.31966	26119	36.88032	27900
3600	4.89160	2030	4.57846	1702	32.58085	24801	37.15932	26502
3800	4.91190	1998	4.59548	1632	32.82886	23613	37.42434	25246
4000	4.93188	1970	4.61180	1571	33.06499	22539	37.67680	24110
4200	4.95158	1941	4.62751	1518	33.29038	21563	37.91790	23080
4400	4.97099	1915	4.64269	1469	33.50601	20670	38.14870	22139
4600	4.99014	1890	4.65738	1426	33.71271	19852	38.37009	21278
4800	5.00904	1865	4.67164	1387	33.91123	19099	38.58287	20486
5000	5.02769		4.68551		34.10222		38.78773	

Table 2.024. RbT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50196	75	3.49110	186	16.37456	63668	19.86567	63854
60	3.50271	190	3.49296	151	17.01124	53856	20.50421	54006
70	3.50461	439	3.49447	151	17.54980	46671	21.04427	46823
80	3.50900	822	3.49598	186	18.01651	41187	21.51250	41373
90	3.51722	1301	3.49784	255	18.42838	36866	21.92623	37121
100	3.53023	1815	3.50039	350	18.79704	33378	22.29744	33727
110	3.54838	2306	3.50389	463	19.13082	30507	22.63471	30971
120	3.57144	2732	3.50852	587	19.43589	28106	22.94442	28692
130	3.59876	3073	3.51439	710	19.71695	26069	23.23134	26780
140	3.62949	3322	3.52149	830	19.97764	24324	23.49914	25153
150	3.66271	3483	3.52979	939	20.22088	22810	23.75067	23750
160	3.69754	3568	3.53918	1036	20.44898	21487	23.98817	22523
170	3.73322	3587	3.54954	1120	20.66385	20320	24.21340	21440
180	3.76909	3557	3.56074	1191	20.86705	19283	24.42780	20474
190	3.80466	3485	3.57265	1247	21.05988	18357	24.63254	19604
200	3.83951	3386	3.58512	1293	21.24345	17523	24.82858	18815
210	3.87337	3267	3.59805	1326	21.41868	16769	25.01673	18095
220	3.90604	3135	3.61131	1350	21.58637	16082	25.19768	17433
230	3.93739	2995	3.62481	1365	21.74719	15456	25.37201	16821
240	3.96734	2852	3.63846	1373	21.90175	14881	25.54022	16254
250	3.99586	2709	3.65219	1375	22.05056	14351	25.70276	15725
260	4.02295	2569	3.66594	1370	22.19407	13861	25.86001	15232
270	4.04864	2433	3.67964	1362	22.33268	13407	26.01233	14768
280	4.07297	2302	3.69326	1349	22.46675	12984	26.16001	14333
290	4.09599	2176	3.70675	1334	22.59659	12589	26.30334	13923
300	4.11775	2057	3.72009	1316	22.72248	12219	26.44257	13536
310	4.13832	1944	3.73325	1297	22.84467	11873	26.57793	13170
320	4.15776	1837	3.74622	1275	22.96340	11548	26.70963	12822
330	4.17613	1738	3.75897	1253	23.07888	11240	26.83785	12493
340	4.19351	1643	3.77150	1229	23.19128	10950	26.96278	12180
350	4.20994	1556	3.78379	1206	23.30078	10677	27.08458	11882
360	4.22550	1473	3.79585	1181	23.40755	10416	27.20340	11598
370	4.24023	1395	3.80766	1157	23.51171	10170	27.31938	11326
380	4.25418	1324	3.81923	1132	23.61341	9935	27.43264	11068
390	4.26742	1256	3.83055	1108	23.71276	9712	27.54332	10820
400	4.27998	5411	3.84163	5184	23.80988	45553	27.65152	50737
450	4.33409	4270	3.89347	4628	24.26541	41266	28.15889	45893
500	4.37679	3446	3.93975	4135	24.67807	37748	28.61782	41883
550	4.41125	2841	3.98110	3706	25.05555	34802	29.03665	38508
600	4.43966	2389	4.01816	3337	25.40357	32296	29.42173	35634
650	4.46355	2047	4.05153	3018	25.72653	30138	29.77807	33155
700	4.48402	1784	4.08171	2743	26.02791	28255	30.10962	30999
750	4.50186	1577	4.10914	2504	26.31046	26601	30.41961	29105
800	4.51763	1415	4.13418	2298	26.57647	25134	30.71066	27431
850	4.53178	1284	4.15716	2118	26.82781	23822	30.98497	25940
900	4.54462	1179	4.17834	1959	27.06603	22644	31.24437	24604
950	4.55641	1092	4.19793	1820	27.29247	21580	31.49041	23399
1000	4.56733	1020	4.21613	1697	27.50827	20612	31.72440	22309
1050	4.57753	961	4.23310	1588	27.71439	19729	31.94749	21317
1100	4.58714	910	4.24898	1490	27.91168	18921	32.16066	20411
1150	4.59624	868	4.26388	1403	28.10089	18177	32.36477	19580

Table 2.024. RbT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.60492	1631	4.27791	2579	28.28266	34345	32.56057	36925
1300	4.62123	1522	4.30370	2323	28.62611	31981	32.92982	34303
1400	4.63645	1438	4.32693	2112	28.94592	29925	33.27285	32038
1500	4.65083	1372	4.34805	1935	29.24517	28125	33.59323	30060
1600	4.66455	1321	4.36740	1787	29.52642	26531	33.89383	28318
1700	4.67776	1278	4.38527	1661	29.79173	25113	34.17701	26774
1800	4.69054	1243	4.40188	1552	30.04286	23842	34.44475	25394
1900	4.70297	1213	4.41740	1458	30.28128	22696	34.69869	24154
2000	4.71510	1188	4.43198	1377	30.50824	21657	34.94023	23034
2100	4.72698	1166	4.44575	1305	30.72481	20712	35.17057	22017
2200	4.73864	1148	4.45880	1241	30.93193	19848	35.39074	21089
2300	4.75012	1129	4.47121	1186	31.13041	19055	35.60163	20240
2400	4.76141	1115	4.48307	1136	31.32096	18324	35.80403	19460
2500	4.77256	1101	4.49443	1091	31.50420	17649	35.99863	18740
2600	4.78357	1088	4.50534	1051	31.68069	17023	36.18603	18074
2700	4.79445	1076	4.51585	1014	31.85092	16441	36.36677	17456
2800	4.80521	1065	4.52599	981	32.01533	15900	36.54133	16880
2900	4.81586	1056	4.53580	951	32.17433	15393	36.71013	16345
3000	4.82642	2081	4.54531	1822	32.32826	29393	36.87358	31215
3200	4.84723	2047	4.56353	1730	32.62219	27719	37.18573	29448
3400	4.86770	2016	4.58083	1649	32.89938	26230	37.48021	27880
3600	4.88786	1985	4.59732	1582	33.16168	24900	37.75901	26481
3800	4.90771	1958	4.61314	1522	33.41068	23701	38.02382	25223
4000	4.92729	1931	4.62836	1469	33.64769	22617	38.27605	24087
4200	4.94660	1906	4.64305	1424	33.87386	21633	38.51692	23056
4400	4.96566	1881	4.65729	1381	34.09019	20733	38.74748	22115
4600	4.98447	1859	4.67110	1345	34.29752	19909	38.96863	21253
4800	5.00306	1835	4.68455	1311	34.49661	19150	39.18116	20461
5000	5.02141		4.69766		34.68811		39.38577	

Table 2. 025. CsH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50207	34	3.47513	452	16.05081	63402	19.52594	63854
60	3.50241	37	3.47965	328	16.68483	53665	20.16448	53993
70	3.50278	41	3.48293	250	17.22148	46525	20.70441	46775
80	3.50319	52	3.48543	200	17.68673	41064	21.17216	41265
90	3.50371	81	3.48743	167	18.09737	36753	21.58481	36919
100	3.50452	134	3.48910	146	18.46490	33261	21.95400	33407
110	3.50586	222	3.49056	136	18.79751	30378	22.28807	30514
120	3.50808	345	3.49192	136	19.10129	27956	22.59321	28093
130	3.51153	499	3.49328	148	19.38085	25893	22.87414	26040
140	3.51652	678	3.49476	166	19.63978	24117	23.13454	24284
150	3.52330	873	3.49642	194	19.88095	22572	23.37738	22765
160	3.53203	1075	3.49836	229	20.10667	21215	23.60503	21445
170	3.54278	1273	3.50065	269	20.31882	20017	23.81948	20285
180	3.55551	1461	3.50334	312	20.51899	18949	24.02233	19262
190	3.57012	1634	3.50646	358	20.70848	17995	24.21495	18353
200	3.58646	1787	3.51004	406	20.88843	17135	24.39848	17541
210	3.60433	1919	3.51410	454	21.05978	16358	24.57389	16811
220	3.62352	2028	3.51864	499	21.22336	15652	24.74200	16152
230	3.64380	2115	3.52363	545	21.37988	15008	24.90352	15552
240	3.66495	2182	3.52908	587	21.52996	14418	25.05904	15005
250	3.68677	2228	3.53495	626	21.67414	13876	25.20909	14503
260	3.70905	2258	3.54121	664	21.81290	13377	25.35412	14041
270	3.73163	2271	3.54785	697	21.94667	12916	25.49453	13612
280	3.75434	2272	3.55482	727	22.07583	12486	25.63065	13214
290	3.77706	2260	3.56209	754	22.20069	12089	25.76279	12843
300	3.79966	2238	3.56963	778	22.32158	11718	25.89122	12495
310	3.82204	2208	3.57741	799	22.43876	11370	26.01617	12170
320	3.84412	2172	3.58540	817	22.55246	11045	26.13787	11862
330	3.86584	2129	3.59357	833	22.66291	10741	26.25649	11573
340	3.88713	2083	3.60190	844	22.77032	10453	26.37222	11298
350	3.90796	2034	3.61034	856	22.87485	10182	26.48520	11037
360	3.92830	1982	3.61890	863	22.97667	9928	26.59557	10791
370	3.94812	1928	3.62753	869	23.07595	9685	26.70348	10554
380	3.96740	1874	3.63622	873	23.17280	9457	26.80902	10330
390	3.98614	1819	3.64495	876	23.26737	9239	26.91232	10115
400	4.00433	8282	3.65371	4368	23.35976	43287	27.01347	47656
450	4.08715	7021	3.69739	4259	23.79263	39178	27.49003	43436
500	4.15736	5936	3.73998	4071	24.18441	35838	27.92439	39910
550	4.21672	5034	3.78069	3849	24.54279	33063	28.32349	36912
600	4.26706	4297	3.81918	3615	24.87342	30715	28.69261	34329
650	4.31003	3698	3.85533	3383	25.18057	28696	29.03590	32080
700	4.34701	3211	3.88916	3162	25.46753	26941	29.35670	30103
750	4.37912	2813	3.92078	2954	25.73694	25400	29.65773	28354
800	4.40725	2486	3.95032	2763	25.99094	24032	29.94127	26795
850	4.43211	2218	3.97795	2586	26.23126	22812	30.20922	25397
900	4.45429	1994	4.00381	2424	26.45938	21713	30.46319	24137
950	4.47423	1809	4.02805	2277	26.67651	20720	30.70456	22997
1000	4.49232	1651	4.05082	2142	26.88371	19816	30.93453	21959
1050	4.50883	1519	4.07224	2020	27.08187	18991	31.15412	21010
1100	4.52402	1407	4.09244	1907	27.27178	18234	31.36422	20142
1150	4.53809	1310	4.11151	1805	27.45412	17537	31.56564	19342

Table 2. 025. CsH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.55119	2383	4.12956	3337	27.62949	33188	31.75906	36525
1300	4.57502	2131	4.16293	3021	27.96137	30963	32.12431	33984
1400	4.59633	1940	4.19314	2753	28.27100	29025	32.46415	31778
1500	4.61573	1789	4.22067	2526	28.56125	27322	32.78193	29847
1600	4.63362	1671	4.24593	2330	28.83447	25811	33.08040	28142
1700	4.65033	1575	4.26923	2162	29.09258	24465	33.36182	26626
1800	4.66608	1497	4.29085	2014	29.33723	23254	33.62808	25268
1900	4.68105	1432	4.31099	1887	29.56977	22161	33.88076	24048
2000	4.69537	1378	4.32986	1773	29.79138	21169	34.12124	22942
2100	4.70915	1332	4.34759	1674	30.00307	20264	34.35066	21938
2200	4.72247	1293	4.36433	1585	30.20571	19435	34.57004	21021
2300	4.73540	1258	4.38018	1507	30.40006	18674	34.78025	20180
2400	4.74798	1229	4.39525	1435	30.58680	17972	34.98205	19408
2500	4.76027	1203	4.40960	1372	30.76652	17321	35.17613	18693
2600	4.77230	1180	4.42332	1315	30.93973	16719	35.36306	18033
2700	4.78410	1158	4.43647	1262	31.10692	16157	35.54339	17420
2800	4.79568	1140	4.44909	1215	31.26849	15634	35.71759	16848
2900	4.80708	1122	4.46124	1171	31.42483	15144	35.88607	16316
3000	4.81830	2200	4.47295	2228	31.57627	28940	36.04923	31167
3200	4.84030	2145	4.49523	2093	31.86567	27316	36.36090	29409
3400	4.86175	2098	4.51616	1978	32.13883	25870	36.65499	27849
3600	4.88273	2057	4.53594	1880	32.39753	24575	36.93348	26455
3800	4.90330	2019	4.55474	1793	32.64328	23409	37.19803	25202
4000	4.92349	1985	4.57267	1718	32.87737	22352	37.45005	24070
4200	4.94334	1953	4.58985	1652	33.10089	21390	37.69075	23041
4400	4.96287	1923	4.60637	1591	33.31479	20512	37.92116	22104
4600	4.98210	1895	4.62228	1539	33.51991	19705	38.14220	21244
4800	5.00105	1868	4.63767	1491	33.71696	18962	38.35464	20453
5000	5.01973		4.65258		33.90658		38.55917	

Table 2.026. CsD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50197	45	3.48792	238	16.73047	63614	20.21840	63852
60	3.50242	79	3.49030	178	17.36661	53818	20.85692	53995
70	3.50321	172	3.49208	149	17.90479	46640	21.39687	46789
80	3.50493	353	3.49357	143	18.37119	41156	21.86476	41300
90	3.50846	626	3.49500	164	18.78275	36832	22.27776	36995
100	3.51472	970	3.49664	205	19.15107	33336	22.64771	33542
110	3.52442	1354	3.49869	268	19.48443	30454	22.98313	30721
120	3.53796	1739	3.50137	346	19.78897	28039	23.29034	28385
130	3.55535	2099	3.50483	434	20.06936	25989	23.57419	26423
140	3.57634	2411	3.50917	527	20.32925	24228	23.83842	24755
150	3.60045	2668	3.51444	619	20.57153	22701	24.08597	23321
160	3.62713	2864	3.52063	710	20.79854	21364	24.31918	22074
170	3.65577	3000	3.52773	794	21.01218	20186	24.53992	20980
180	3.68577	3085	3.53567	871	21.21404	19140	24.74972	20011
190	3.71662	3124	3.54438	940	21.40544	18204	24.94983	19143
200	3.74786	3124	3.55378	998	21.58748	17363	25.14126	18361
210	3.77910	3092	3.56376	1049	21.76111	16602	25.32487	17652
220	3.81002	3037	3.57425	1092	21.92713	15913	25.50139	17004
230	3.84039	2963	3.58517	1125	22.08626	15282	25.67143	16407
240	3.87002	2875	3.59642	1152	22.23908	14704	25.83550	15857
250	3.89877	2778	3.60794	1173	22.38612	14174	25.99407	15346
260	3.92655	2675	3.61967	1186	22.52786	13683	26.14753	14869
270	3.95330	2569	3.63153	1196	22.66469	13228	26.29622	14424
280	3.97899	2461	3.64349	1199	22.79697	12807	26.44046	14006
290	4.00360	2353	3.65548	1200	22.92504	12412	26.58052	13613
300	4.02713	2248	3.66748	1197	23.04916	12046	26.71665	13242
310	4.04961	2145	3.67945	1190	23.16962	11700	26.84907	12891
320	4.07106	2045	3.69135	1182	23.28662	11377	26.97798	12559
330	4.09151	1950	3.70317	1171	23.40039	11073	27.10357	12244
340	4.11101	1857	3.71488	1159	23.51112	10785	27.22601	11943
350	4.12958	1769	3.72647	1144	23.61897	10514	27.34544	11659
360	4.14727	1685	3.73791	1130	23.72411	10257	27.46203	11386
370	4.16412	1606	3.74921	1113	23.82668	10013	27.57589	11126
380	4.18018	1530	3.76034	1096	23.92681	9782	27.68715	10879
390	4.19548	1458	3.77130	1079	24.02463	9562	27.79594	10640
400	4.21006	6351	3.78209	5122	24.12025	44847	27.90234	49969
450	4.27357	5075	3.83331	4665	24.56872	40633	28.40203	45299
500	4.32432	4120	3.87996	4233	24.97505	37182	28.85502	41415
550	4.36552	3403	3.92229	3840	25.34687	34296	29.26917	38135
600	4.39955	2858	3.96069	3489	25.68983	31842	29.65052	35331
650	4.42813	2438	3.99558	3179	26.00825	29729	30.00383	32908
700	4.45251	2113	4.02737	2906	26.30554	27886	30.33291	30793
750	4.47364	1855	4.05643	2667	26.58440	26266	30.64084	28932
800	4.49219	1651	4.08310	2456	26.84706	24828	30.93016	27285
850	4.50870	1485	4.10766	2269	27.09534	23544	31.20301	25813
900	4.52355	1351	4.13035	2106	27.33078	22389	31.46114	24495
950	4.53706	1241	4.15141	1960	27.55467	21345	31.70609	23304
1000	4.54947	1150	4.17101	1830	27.76812	20395	31.93913	22225
1050	4.56097	1073	4.18931	1714	27.97207	19528	32.16138	21243
1100	4.57170	1008	4.20645	1610	28.16735	18735	32.37381	20344
1150	4.58178	954	4.22255	1517	28.35470	18003	32.57725	19520

Table 2.026. CsD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.59132	1773	4.23772	2789	28.53473	34032	32.77245	36822
1300	4.60905	1633	4.26561	2512	28.87505	31705	33.14067	34217
1400	4.62538	1526	4.29073	2283	29.19210	29682	33.48284	31964
1500	4.64064	1442	4.31356	2089	29.48892	27907	33.80248	29997
1600	4.65506	1376	4.33445	1927	29.76799	26336	34.10245	28263
1700	4.66882	1322	4.35372	1787	30.03135	24936	34.38508	26723
1800	4.68204	1279	4.37159	1668	30.28071	23682	34.65231	25349
1900	4.69483	1241	4.38827	1564	30.51753	22549	34.90580	24113
2000	4.70724	1210	4.40391	1474	30.74302	21523	35.14693	22997
2100	4.71934	1184	4.41865	1393	30.95825	20588	35.37690	21981
2200	4.73118	1160	4.43258	1324	31.16413	19733	35.59671	21057
2300	4.74278	1140	4.44582	1261	31.36146	18948	35.80728	20209
2400	4.75418	1122	4.45843	1206	31.55094	18225	36.00937	19431
2500	4.76540	1106	4.47049	1155	31.73319	17556	36.20368	18712
2600	4.77646	1091	4.48204	1111	31.90875	16936	36.39080	18047
2700	4.78737	1077	4.49315	1070	32.07811	16360	36.57127	17430
2800	4.79814	1065	4.50385	1033	32.24171	15823	36.74557	16856
2900	4.80879	1054	4.51418	1000	32.39994	15321	36.91413	16320
3000	4.81933	2075	4.52418	1910	32.55315	29260	37.07733	31170
3200	4.84008	2038	4.54328	1806	32.84575	27598	37.38903	29404
3400	4.86046	2003	4.56134	1717	33.12173	26121	37.68307	27838
3600	4.88049	1972	4.57851	1641	33.38294	24799	37.96145	26441
3800	4.90021	1942	4.59492	1576	33.63093	23609	38.22586	25184
4000	4.91963	1915	4.61068	1516	33.86702	22532	38.47770	24049
4200	4.93878	1889	4.62584	1466	34.09234	21554	38.71819	23019
4400	4.95767	1864	4.64050	1420	34.30788	20659	38.94838	22079
4600	4.97631	1840	4.65470	1378	34.51447	19840	39.16917	21218
4800	4.99471	1817	4.66848	1341	34.71287	19085	39.38135	20427
5000	5.01288		4.68189		34.90372		39.58562	

Table 2.027. CsT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50204	103	3.49220	171	17.13301	63686	20.62521	63858
60	3.50307	275	3.49391	148	17.76987	53870	21.26379	54017
70	3.50582	611	3.49539	164	18.30857	46685	21.80396	46849
80	3.51193	1091	3.49703	221	18.77542	41201	22.27245	41423
90	3.52284	1650	3.49924	314	19.18743	36883	22.68668	37197
100	3.53934	2212	3.50238	432	19.55626	33401	23.05865	33833
110	3.56146	2718	3.50670	567	19.89027	30536	23.39698	31102
120	3.58864	3130	3.51237	704	20.19563	28140	23.70800	28845
130	3.61994	3436	3.51941	840	20.47703	26112	23.99645	26951
140	3.65430	3636	3.52781	963	20.73815	24372	24.26596	25335
150	3.69066	3745	3.53744	1075	20.98187	22863	24.51931	23939
160	3.72811	3774	3.54819	1169	21.21050	21546	24.75870	22714
170	3.76585	3743	3.55988	1249	21.42596	20383	24.98584	21632
180	3.80328	3664	3.57237	1312	21.62979	19349	25.20216	20662
190	3.83992	3553	3.58549	1361	21.82328	18426	25.40878	19787
200	3.87545	3418	3.59910	1398	22.00754	17594	25.60665	18991
210	3.90963	3269	3.61308	1423	22.18348	16841	25.79656	18264
220	3.94232	3113	3.62731	1438	22.35189	16155	25.97920	17594
230	3.97345	2954	3.64169	1444	22.51344	15530	26.15514	16974
240	4.00299	2795	3.65613	1444	22.66874	14954	26.32488	16398
250	4.03094	2641	3.67057	1437	22.81828	14424	26.48886	15861
260	4.05735	2492	3.68494	1426	22.96252	13934	26.64747	15360
270	4.08227	2348	3.69920	1411	23.10186	13479	26.80107	14889
280	4.10575	2213	3.71331	1392	23.23665	13055	26.94996	14447
290	4.12788	2084	3.72723	1370	23.36720	12659	27.09443	14030
300	4.14872	1963	3.74093	1348	23.49379	12288	27.23473	13635
310	4.16835	1850	3.75441	1322	23.61667	11941	27.37108	13264
320	4.18685	1744	3.76763	1297	23.73608	11614	27.50372	12911
330	4.20429	1644	3.78060	1271	23.85222	11305	27.63283	12575
340	4.22073	1552	3.79331	1243	23.96527	11014	27.75858	12258
350	4.23625	1466	3.80574	1217	24.07541	10738	27.88116	11954
360	4.25091	1385	3.81791	1189	24.18279	10477	28.00070	11666
370	4.26476	1310	3.82980	1162	24.28756	10229	28.11736	11391
380	4.27786	1240	3.84142	1135	24.38985	9993	28.23127	11129
390	4.29026	1176	3.85277	1109	24.48978	9768	28.34256	10877
400	4.30202	5047	3.86386	5160	24.58746	45814	28.45133	50974
450	4.35249	3969	3.91546	4577	25.04560	41495	28.96107	46071
500	4.39218	3195	3.96123	4068	25.46055	37949	29.42178	42017
550	4.42413	2633	4.00191	3631	25.84004	34980	29.84195	38612
600	4.45046	2215	4.03822	3259	26.18984	32454	30.22807	35712
650	4.47261	1901	4.07081	2939	26.51438	30278	30.58519	33217
700	4.49162	1658	4.10020	2666	26.81716	28380	30.91736	31047
750	4.50820	1470	4.12686	2430	27.10096	26713	31.22783	29143
800	4.52290	1322	4.15116	2227	27.36809	25234	31.51926	27461
850	4.53612	1203	4.17343	2048	27.62043	23914	31.79387	25962
900	4.54815	1106	4.19391	1894	27.85957	22727	32.05349	24620
950	4.55921	1028	4.21285	1758	28.08684	21654	32.29969	23413
1000	4.56949	963	4.23043	1638	28.30338	20680	32.53382	22318
1050	4.57912	908	4.24681	1531	28.51018	19792	32.75700	21323
1100	4.58820	863	4.26212	1437	28.70810	18978	32.97023	20415
1150	4.59683	825	4.27649	1352	28.89788	18230	33.17438	19581

Table 2.027. CsT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.60508	1554	4.29001	2484	29.08018	34438	33.37019	36923
1300	4.62062	1455	4.31485	2237	29.42456	32060	33.73942	34296
1400	4.63517	1379	4.33722	2032	29.74516	29994	34.08238	32027
1500	4.64896	1320	4.35754	1863	30.04510	28183	34.40265	30046
1600	4.66216	1273	4.37617	1720	30.32693	26583	34.70311	28303
1700	4.67489	1234	4.39337	1599	30.59276	25158	34.98614	26756
1800	4.68723	1202	4.40936	1494	30.84434	23880	35.25370	25374
1900	4.69925	1175	4.42430	1404	31.08314	22730	35.50744	24135
2000	4.71100	1152	4.43834	1326	31.31044	21687	35.74879	23013
2100	4.72252	1132	4.45160	1257	31.52731	20738	35.97892	21995
2200	4.73384	1115	4.46417	1197	31.73469	19871	36.19887	21067
2300	4.74499	1098	4.47614	1143	31.93340	19075	36.40954	20218
2400	4.75597	1085	4.48757	1096	32.12415	18341	36.61172	19437
2500	4.76682	1072	4.49853	1052	32.30756	17664	36.80609	18717
2600	4.77754	1060	4.50905	1014	32.48420	17037	36.99326	18050
2700	4.78814	1049	4.51919	979	32.65457	16453	37.17376	17433
2800	4.79863	1039	4.52898	948	32.81910	15909	37.34809	16857
2900	4.80902	1029	4.53846	919	32.97819	15402	37.51666	16321
3000	4.81931	2032	4.54765	1762	33.13221	29407	37.67987	31168
3200	4.83963	2000	4.56527	1673	33.42628	27727	37.99155	29400
3400	4.85963	1969	4.58200	1597	33.70355	26235	38.28555	27833
3600	4.87932	1941	4.59797	1532	33.96590	24902	38.56388	26433
3800	4.89873	1916	4.61329	1475	34.21492	23701	38.82821	25176
4000	4.91789	1890	4.62804	1425	34.45193	22615	39.07997	24040
4200	4.93679	1865	4.64229	1381	34.67808	21628	39.32037	23009
4400	4.95544	1843	4.65610	1342	34.89436	20727	39.55046	22069
4600	4.97387	1821	4.66952	1306	35.10163	19901	39.77115	21207
4800	4.99208	1799	4.68258	1274	35.30064	19141	39.98322	20415
5000	5.01007		4.69532		35.49205		40.18737	

Table 2. 028. BeH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50346	- 40	3.40119	1701	11.59495	62171	14.99615	63871
60	3.50306	- 14	3.41820	1211	12.21666	52788	15.63486	53999
70	3.50292		3.43031	907	12.74454	45867	16.17485	46775
80	3.50292	9	3.43938	707	13.20321	40553	16.64260	41259
90	3.50301	14	3.44645	566	13.60874	36342	17.05519	36908
100	3.50315	17	3.45211	465	13.97216	32925	17.42427	33390
110	3.50332	19	3.45676	388	14.30141	30095	17.75817	30484
120	3.50351	21	3.46064	331	14.60236	27713	18.06301	28043
130	3.50372	22	3.46395	285	14.87949	25681	18.34344	25967
140	3.50394	23	3.46680	248	15.13630	23927	18.60311	24175
150	3.50417	24	3.46928	219	15.37557	22398	18.84486	22616
160	3.50441	25	3.47147	194	15.59955	21051	19.07102	21246
170	3.50466	26	3.47341	175	15.81006	19859	19.28348	20033
180	3.50492	28	3.47516	157	16.00865	18793	19.48381	18951
190	3.50520	31	3.47673	143	16.19658	17837	19.67332	17980
200	3.50551	35	3.47816	131	16.37495	16974	19.85312	17105
210	3.50586	42	3.47947	121	16.54469	16189	20.02417	16310
220	3.50628	49	3.48068	112	16.70658	15475	20.18727	15587
230	3.50677	60	3.48180	106	16.86133	14821	20.34314	14926
240	3.50737	74	3.48286	99	17.00954	14219	20.49240	14319
250	3.50811	89	3.48385	95	17.15173	13666	20.63559	13761
260	3.50900	108	3.48480	92	17.28839	13154	20.77320	13245
270	3.51008	130	3.48572	89	17.41993	12678	20.90565	12767
280	3.51138	155	3.48661	88	17.54671	12237	21.03332	12325
290	3.51293	183	3.48749	88	17.66908	11824	21.15657	11912
300	3.51476	212	3.48837	88	17.78732	11440	21.27569	11529
310	3.51688	245	3.48925	90	17.90172	11079	21.39098	11169
320	3.51933	279	3.49015	93	18.01251	10741	21.50267	10834
330	3.52212	315	3.49108	96	18.11992	10424	21.61101	10519
340	3.52527	352	3.49204	100	18.22416	10124	21.71620	10224
350	3.52879	390	3.49304	104	18.32540	9841	21.81844	9946
360	3.53269	429	3.49408	110	18.42381	9575	21.91790	9685
370	3.53698	467	3.49518	116	18.51956	9323	22.01475	9439
380	3.54165	506	3.49634	123	18.61279	9083	22.10914	9206
390	3.54671	543	3.49757	129	18.70362	8857	22.20120	8986
400	3.55214	3260	3.49886	766	18.79219	41253	22.29106	42018
450	3.58474	4028	3.50652	978	19.20472	36994	22.71124	37972
500	3.62502	4576	3.51630	1193	19.57466	33568	23.09096	34761
550	3.67078	4902	3.52823	1390	19.91034	30758	23.43857	32149
600	3.71980	5037	3.54213	1560	20.21792	28413	23.76006	29973
650	3.77017	5025	3.55773	1698	20.50205	26427	24.05979	28124
700	3.82042	4906	3.57471	1802	20.76632	24724	24.34103	26526
750	3.86948	4718	3.59273	1878	21.01356	23246	24.60629	25125
800	3.91666	4488	3.61151	1929	21.24602	21953	24.85754	23881
850	3.96154	4235	3.63080	1956	21.46555	20808	25.09635	22764
900	4.00389	3976	3.65036	1966	21.67363	19789	25.32399	21756
950	4.04365	3718	3.67002	1962	21.87152	18875	25.54155	20837
1000	4.08083	3470	3.68964	1947	22.06027	18049	25.74992	19995
1050	4.11553	3234	3.70911	1922	22.24076	17299	25.94987	19221
1100	4.14787	3013	3.72833	1890	22.41375	16615	26.14208	18505
1150	4.17800	2807	3.74723	1854	22.57990	15987	26.32713	17842

Table 2. 028. BeH (Cont.)

k	$\frac{C_p^\circ}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
1200	4.20607	5058	3.76577	3586	22.73977	30285	26.50555	33871
1300	4.25665	4414	3.80163	3411	23.04262	28299	26.84426	31710
1400	4.30079	3874	3.83574	3232	23.32561	26576	27.16136	29808
1500	4.33953	3423	3.86806	3056	23.59137	25062	27.45944	28118
1600	4.37376	3046	3.89862	2886	23.84199	23723	27.74062	26609
1700	4.40422	2730	3.92748	2726	24.07922	22527	28.00671	25252
1800	4.43152	2464	3.95474	2575	24.30449	21451	28.25923	24027
1900	4.45616	2240	3.98049	2436	24.51900	20480	28.49950	22915
2000	4.47856	2048	4.00485	2305	24.72380	19596	28.72865	21902
2100	4.49904	1886	4.02790	2185	24.91976	18789	28.94767	20973
2200	4.51790	1747	4.04975	2074	25.10765	18048	29.15740	20122
2300	4.53537	1627	4.07049	1971	25.28813	17366	29.35862	19337
2400	4.55164	1523	4.09020	1877	25.46179	16735	29.55199	18612
2500	4.56687	1433	4.10897	1789	25.62914	16151	29.73811	17940
2600	4.58120	1353	4.12686	1708	25.79065	15607	29.91751	17315
2700	4.59473	1285	4.14394	1633	25.94672	15100	30.09066	16734
2800	4.60758	1224	4.16027	1563	26.09772	14627	30.25800	16190
2900	4.61982	1170	4.17590	1500	26.24399	14182	30.41990	15682
3000	4.63152	2201	4.19090	2823	26.38581	27139	30.57672	29962
3200	4.65353	2047	4.21913	2616	26.65720	25658	30.87634	28274
3400	4.67400	1924	4.24529	2436	26.91378	24335	31.15908	26771
3600	4.69324	1821	4.26965	2278	27.15713	23147	31.42679	25424
3800	4.71145	1737	4.29243	2139	27.38860	22072	31.68103	24211
4000	4.72882	1666	4.31382	2016	27.60932	21096	31.92314	23113
4200	4.74548	1605	4.33398	1907	27.82028	20207	32.15427	22113
4400	4.76153	1554	4.35305	1810	28.02235	19390	32.37540	21200
4600	4.77707	1508	4.37115	1723	28.21625	18640	32.58740	20363
4800	4.79215	1469	4.38838	1644	28.40265	17948	32.79103	19593
5000	4.80684		4.40482		28.58213		32.98696	

Table 2. 029. BeD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50198	7	3.44617	930	12.28634	62919	15.73251	63850
60	3.50205	15	3.45547	667	12.91553	53319	16.37101	53985
70	3.50220	19	3.46214	502	13.44872	46265	16.91086	46767
80	3.50239	22	3.46716	392	13.91137	40860	17.37853	41253
90	3.50261	23	3.47108	317	14.31997	36589	17.79106	36905
100	3.50284	25	3.47425	261	14.68586	33126	18.16011	33387
110	3.50309	25	3.47686	219	15.01712	30262	18.49398	30482
120	3.50334	27	3.47905	188	15.31974	27855	18.79880	28043
130	3.50361	29	3.48093	163	15.59829	25803	19.07923	25965
140	3.50390	33	3.48256	144	15.85632	24032	19.33888	24176
150	3.50423	41	3.48400	127	16.09664	22489	19.58064	22617
160	3.50464	53	3.48527	116	16.32153	21133	19.80681	21248
170	3.50517	70	3.48643	106	16.53286	19931	20.01929	20037
180	3.50587	94	3.48749	99	16.73217	18858	20.21966	18958
190	3.50681	123	3.48848	94	16.92075	17896	20.40924	17990
200	3.50804	161	3.48942	93	17.09971	17028	20.58914	17120
210	3.50965	205	3.49035	92	17.26999	16239	20.76034	16331
220	3.51170	255	3.49127	94	17.43238	15521	20.92365	15616
230	3.51425	310	3.49221	98	17.58759	14865	21.07981	14963
240	3.51735	372	3.49319	104	17.73624	14262	21.22944	14366
250	3.52107	435	3.49423	111	17.87886	13707	21.37310	13818
260	3.52542	503	3.49534	121	18.01593	13194	21.51128	13314
270	3.53045	570	3.49655	131	18.14787	12718	21.64442	12850
280	3.53615	638	3.49786	143	18.27505	12277	21.77292	12419
290	3.54253	707	3.49929	156	18.39782	11866	21.89711	12022
300	3.54960	772	3.50085	169	18.51648	11482	22.01733	11651
310	3.55732	835	3.50254	184	18.63130	11123	22.13384	11307
320	3.56567	897	3.50438	199	18.74253	10786	22.24691	10986
330	3.57464	954	3.50637	215	18.85039	10471	22.35677	10686
340	3.58418	1007	3.50852	230	18.95510	10174	22.46363	10404
350	3.59425	1056	3.51082	247	19.05684	9893	22.56767	10140
360	3.60481	1102	3.51329	262	19.15577	9630	22.66907	9891
370	3.61583	1142	3.51591	278	19.25207	9380	22.76798	9658
380	3.62725	1178	3.51869	293	19.34587	9144	22.86456	9437
390	3.63903	1209	3.52162	309	19.43731	8920	22.95893	9229
400	3.65112	6382	3.52471	1755	19.52651	41613	23.05122	43368
450	3.71494	6613	3.54226	2057	19.94264	37425	23.48490	39483
500	3.78107	6514	3.56283	2282	20.31689	34063	23.87973	36345
550	3.84621	6209	3.58565	2432	20.65752	31303	24.24318	33735
600	3.90830	5795	3.60997	2521	20.97055	28994	24.58053	31515
650	3.96625	5336	3.63518	2558	21.26049	27034	24.89568	29591
700	4.01961	4874	3.66076	2557	21.53083	25344	25.19159	27901
750	4.06835	4432	3.68633	2529	21.78427	23872	25.47060	26401
800	4.11267	4020	3.71162	2479	22.02299	22576	25.73461	25055
850	4.15287	3646	3.73641	2417	22.24875	21425	25.98516	23842
900	4.18933	3308	3.76058	2345	22.46300	20396	26.22358	22741
950	4.22241	3006	3.78403	2268	22.66696	19467	26.45099	21736
1000	4.25247	2738	3.80671	2189	22.86163	18627	26.66835	20815
1050	4.27985	2499	3.82860	2109	23.04790	17859	26.87650	19968
1100	4.30484	2289	3.84969	2029	23.22649	17158	27.07618	19187
1150	4.32773	2102	3.86998	1952	23.39807	16512	27.26805	18464

Table 2. 029. BeD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.34875	3726	3.88950	3680	23.56319	31280	27.45269	34960
1300	4.38601	3200	3.92630	3400	23.87599	29223	27.80229	32624
1400	4.41801	2783	3.96030	3146	24.16822	27432	28.12853	30578
1500	4.44584	2448	3.99176	2916	24.44254	25856	28.43431	28772
1600	4.47032	2178	4.02092	2709	24.70110	24459	28.72203	27168
1700	4.49210	1959	4.04801	2523	24.94569	23211	28.99371	25733
1800	4.51169	1778	4.07324	2355	25.17780	22086	29.25104	24442
1900	4.52947	1627	4.09679	2204	25.39866	21071	29.49546	23275
2000	4.54574	1503	4.11883	2070	25.60937	20146	29.72821	22215
2100	4.56077	1398	4.13953	1947	25.81083	19303	29.95036	21250
2200	4.57475	1308	4.15900	1836	26.00386	18528	30.16286	20364
2300	4.58783	1232	4.17736	1736	26.18914	17816	30.36650	19552
2400	4.60015	1167	4.19472	1645	26.36730	17157	30.56202	18803
2500	4.61182	1111	4.21117	1563	26.53887	16547	30.75005	18110
2600	4.62293	1062	4.22680	1487	26.70434	15981	30.93115	17467
2700	4.63355	1019	4.24167	1418	26.86415	15451	31.10582	16870
2800	4.64374	981	4.25585	1354	27.01866	14959	31.27452	16312
2900	4.65355	948	4.26939	1297	27.16825	14495	31.43764	15793
3000	4.66303	1811	4.28236	2436	27.31320	27717	31.59557	30153
3200	4.68114	1717	4.30672	2253	27.59037	26178	31.89710	28431
3400	4.69831	1641	4.32925	2097	27.85215	24805	32.18141	26901
3600	4.71472	1577	4.35022	1960	28.10020	23574	32.45042	25534
3800	4.73049	1525	4.36982	1842	28.33594	22461	32.70576	24303
4000	4.74574	1481	4.38824	1737	28.56055	21453	32.94879	23191
4200	4.76055	1442	4.40561	1647	28.77508	20533	33.18070	22179
4400	4.77497	1409	4.42208	1565	28.98041	19692	33.40249	21257
4600	4.78906	1379	4.43773	1492	29.17733	18919	33.61506	20412
4800	4.80285	1353	4.45265	1428	29.36652	18205	33.81918	19633
5000	4.81638		4.46693		29.54857		34.01551	

Table 2. 030. BeT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50167	16	3.46106	678	12.71799	63166	16.17905	63844
60	3.50183	20	3.46784	487	13.34965	53496	16.81749	53983
70	3.50203	23	3.47271	368	13.88461	46396	17.35732	46765
80	3.50226	24	3.47639	289	14.34857	40964	17.82497	41252
90	3.50250	25	3.47928	233	14.75821	36670	18.23749	36904
100	3.50275	27	3.48161	194	15.12491	33193	18.60653	33386
110	3.50302	29	3.48355	163	15.45684	30318	18.94039	30481
120	3.50331	36	3.48518	141	15.76002	27902	19.24520	28043
130	3.50367	46	3.48659	123	16.03904	25843	19.52563	25967
140	3.50413	65	3.48782	111	16.29747	24067	19.78530	24178
150	3.50478	92	3.48893	102	16.53814	22521	20.02708	22622
160	3.50570	130	3.48995	96	16.76335	21160	20.25330	21257
170	3.50700	179	3.49091	94	16.97495	19956	20.46587	20050
180	3.50879	240	3.49185	96	17.17451	18882	20.66637	18978
190	3.51119	308	3.49281	99	17.36333	17919	20.85615	18017
200	3.51427	387	3.49380	106	17.54252	17049	21.03632	17155
210	3.51814	471	3.49486	116	17.71301	16260	21.20787	16377
220	3.52285	561	3.49602	129	17.87561	15544	21.37164	15672
230	3.52846	653	3.49731	143	18.03105	14887	21.52836	15031
240	3.53499	746	3.49874	160	18.17992	14286	21.67867	14445
250	3.54245	837	3.50034	177	18.32278	13732	21.82312	13910
260	3.55082	926	3.50211	198	18.46010	13221	21.96222	13418
270	3.56008	1010	3.50409	217	18.59231	12747	22.09640	12965
280	3.57018	1089	3.50626	239	18.71978	12308	22.22605	12547
290	3.58107	1163	3.50865	261	18.84286	11899	22.35152	12160
300	3.59270	1229	3.51126	282	18.96185	11518	22.47312	11800
310	3.60499	1289	3.51408	304	19.07703	11162	22.59112	11466
320	3.61788	1342	3.51712	326	19.18865	10827	22.70578	11153
330	3.63130	1388	3.52038	347	19.29692	10515	22.81731	10861
340	3.64518	1427	3.52385	366	19.40207	10220	22.92592	10587
350	3.65945	1459	3.52751	387	19.50427	9943	23.03179	10329
360	3.67404	1485	3.53138	406	19.60370	9681	23.13508	10087
370	3.68889	1506	3.53544	423	19.70051	9434	23.23595	9858
380	3.70395	1520	3.53967	441	19.79485	9200	23.33453	9640
390	3.71915	1530	3.54408	457	19.88685	8978	23.43093	9436
400	3.73445	7643	3.54865	2490	19.97663	41938	23.52529	44428
450	3.81088	7348	3.57355	2744	20.39601	37792	23.96957	40536
500	3.88436	6821	3.60099	2891	20.77393	34456	24.37493	37346
550	3.95257	6202	3.62990	2952	21.11849	31710	24.74839	34662
600	4.01459	5572	3.65942	2950	21.43559	29408	25.09501	32358
650	4.07031	4976	3.68892	2905	21.72967	27445	25.41859	30350
700	4.12007	4431	3.71797	2831	22.00412	25748	25.72209	28580
750	4.16438	3948	3.74628	2739	22.26160	24266	26.00789	27005
800	4.20386	3521	3.77367	2636	22.50426	22957	26.27794	25593
850	4.23907	3150	3.80003	2529	22.73383	21793	26.53387	24321
900	4.27057	2826	3.82532	2419	22.95176	20748	26.77708	23167
950	4.29883	2546	3.84951	2311	23.15924	19804	27.00875	22116
1000	4.32429	2301	3.87262	2207	23.35728	18949	27.22991	21155
1050	4.34730	2090	3.89469	2105	23.54677	18167	27.44146	20272
1100	4.36820	1906	3.91574	2009	23.72844	17451	27.64418	19460
1150	4.38726	1745	3.93583	1918	23.90295	16791	27.83878	18710

Table 2. 030. BeT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.40471	3084	3.95501	3581	24.07086	31801	28.02588	35382
1300	4.43555	2648	3.99082	3274	24.38887	29697	28.37970	32970
1400	4.46203	2306	4.02356	3001	24.68584	27863	28.70940	30865
1500	4.48509	2037	4.05357	2762	24.96447	26251	29.01805	29012
1600	4.50546	1822	4.08119	2550	25.22698	24819	29.30817	27370
1700	4.52368	1648	4.10669	2364	25.47517	23541	29.58187	25904
1800	4.54016	1507	4.13033	2197	25.71058	22391	29.84091	24589
1900	4.55523	1389	4.15230	2050	25.93449	21352	30.08680	23401
2000	4.56912	1293	4.17280	1918	26.14801	20406	30.32081	22324
2100	4.58205	1212	4.19198	1801	26.35207	19543	30.54405	21344
2200	4.59417	1143	4.20999	1695	26.54750	18752	30.75749	20448
2300	4.60560	1084	4.22694	1601	26.73502	18024	30.96197	19624
2400	4.61644	1035	4.24295	1515	26.91526	17351	31.15821	18866
2500	4.62679	991	4.25810	1437	27.08877	16729	31.34687	18166
2600	4.63670	954	4.27247	1367	27.25606	16150	31.52853	17517
2700	4.64624	921	4.28614	1302	27.41756	15612	31.70370	16914
2800	4.65545	892	4.29916	1244	27.57368	15108	31.87284	16353
2900	4.66437	867	4.31160	1191	27.72476	14637	32.03637	15827
3000	4.67304	1669	4.32351	2237	27.87113	27976	32.19464	30213
3200	4.68973	1596	4.34588	2070	28.15089	26410	32.49677	28480
3400	4.70569	1538	4.36658	1927	28.41499	25013	32.78157	26941
3600	4.72107	1488	4.38585	1803	28.66512	23762	33.05098	25565
3800	4.73595	1447	4.40388	1697	28.90274	22633	33.30663	24329
4000	4.75042	1412	4.42085	1603	29.12907	21608	33.54992	23212
4200	4.76454	1382	4.43688	1521	29.34515	20676	33.78204	22197
4400	4.77836	1355	4.45209	1448	29.55191	19823	34.00401	21270
4600	4.79191	1331	4.46657	1384	29.75014	19039	34.21671	20423
4800	4.80522	1310	4.48041	1325	29.94053	18317	34.42094	19642
5000	4.81832		4.49366		30.12370		34.61736	

Table 2. 031. MgH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50136	- 7	3.44473	943	13.51462	62893	16.95935	63836
60	3.50129	1	3.45416	673	14.14355	53300	17.59771	53973
70	3.50130	6	3.46089	506	14.67655	46248	18.13744	46754
80	3.50136	9	3.46595	394	15.13903	40847	18.60498	41241
90	3.50145	10	3.46989	316	15.54750	36575	19.01739	36892
100	3.50155	11	3.47305	259	15.91325	33115	19.38631	33373
110	3.50166	13	3.47564	218	16.24440	30251	19.72004	30470
120	3.50179	14	3.47782	185	16.54691	27845	20.02474	28029
130	3.50193	19	3.47967	159	16.82536	25793	20.30503	25953
140	3.50212	25	3.48126	140	17.08329	24024	20.56456	24163
150	3.50237	35	3.48266	124	17.32353	22480	20.80619	22605
160	3.50272	52	3.48390	112	17.54833	21125	21.03224	21237
170	3.50324	75	3.48502	104	17.75958	19922	21.24461	20026
180	3.50399	106	3.48606	97	17.95880	18851	21.44487	18947
190	3.50505	143	3.48703	93	18.14731	17889	21.63434	17982
200	3.50648	191	3.48796	93	18.32620	17020	21.81416	17113
210	3.50839	244	3.48889	94	18.49640	16232	21.98529	16327
220	3.51083	304	3.48983	97	18.65872	15515	22.14856	15612
230	3.51387	369	3.49080	104	18.81387	14859	22.30468	14963
240	3.51756	439	3.49184	111	18.96246	14257	22.45431	14368
250	3.52195	511	3.49295	121	19.10503	13702	22.59799	13823
260	3.52706	585	3.49416	133	19.24205	13189	22.73622	13322
270	3.53291	660	3.49549	145	19.37394	12715	22.86944	12860
280	3.53951	733	3.49694	159	19.50109	12274	22.99804	12433
290	3.54684	805	3.49853	175	19.62383	11864	23.12237	12038
300	3.55489	873	3.50028	190	19.74247	11480	23.24275	11670
310	3.56362	940	3.50218	206	19.85727	11122	23.35945	11329
320	3.57302	1000	3.50424	224	19.96849	10787	23.47274	11010
330	3.58302	1058	3.50648	240	20.07636	10471	23.58284	10712
340	3.59360	1111	3.50888	258	20.18107	10175	23.68996	10433
350	3.60471	1158	3.51146	275	20.28282	9896	23.79429	10171
360	3.61629	1201	3.51421	292	20.38178	9633	23.89600	9924
370	3.62830	1238	3.51713	309	20.47811	9383	23.99524	9693
380	3.64068	1271	3.52022	325	20.57194	9149	24.09217	9473
390	3.65339	1299	3.52347	341	20.66343	8925	24.18690	9266
400	3.66638	6769	3.52688	1923	20.75268	41648	24.27956	43571
450	3.73407	6896	3.54611	2225	21.16916	37475	24.71527	39700
500	3.80303	6705	3.56836	2440	21.54391	34123	25.11227	36564
550	3.87008	6329	3.59276	2578	21.88514	31371	25.47791	33948
600	3.93337	5862	3.61854	2650	22.19885	29068	25.81739	31719
650	3.99199	5370	3.64504	2673	22.48953	27111	26.13458	29783
700	4.04569	4885	3.67177	2659	22.76064	25423	26.43241	28082
750	4.09454	4429	3.69836	2616	23.01487	23953	26.71323	26569
800	4.13883	4010	3.72452	2557	23.25440	22656	26.97892	25214
850	4.17893	3633	3.75009	2485	23.48096	21506	27.23106	23991
900	4.21526	3295	3.77494	2406	23.69602	20475	27.47097	22880
950	4.24821	2996	3.79900	2322	23.90077	19546	27.69977	21868
1000	4.27817	2730	3.82222	2237	24.09623	18703	27.91845	20941
1050	4.30547	2496	3.84459	2153	24.28326	17935	28.12786	20087
1100	4.33043	2288	3.86612	2069	24.46261	17232	28.32873	19301
1150	4.35331	2106	3.88681	1988	24.63493	16584	28.52174	18573

Table 2.031. MgH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.37437	3743	3.90669	3745	24.80077	31420	28.70747	35165
1300	4.41180	3232	3.94414	3459	25.11497	29358	29.05912	32816
1400	4.44412	2826	3.97873	3199	25.40855	27561	29.38728	30760
1500	4.47238	2501	4.01072	2965	25.68416	25980	29.69488	28945
1600	4.49739	2239	4.04037	2755	25.94396	24578	29.98433	27334
1700	4.51978	2025	4.06792	2567	26.18974	23325	30.25767	25892
1800	4.54003	1850	4.09359	2400	26.42299	22198	30.51659	24597
1900	4.55853	1704	4.11759	2247	26.64497	21179	30.76256	23426
2000	4.57557	1582	4.14006	2112	26.85676	20251	30.99682	22363
2100	4.59139	1480	4.16118	1990	27.05927	19404	31.22045	21394
2200	4.60619	1393	4.18108	1879	27.25331	18627	31.43439	20507
2300	4.62012	1318	4.19987	1778	27.43958	17913	31.63946	19691
2400	4.63330	1254	4.21765	1688	27.61871	17252	31.83637	18939
2500	4.64584	1198	4.23453	1605	27.79123	16639	32.02576	18245
2600	4.65782	1150	4.25058	1530	27.95762	16071	32.20821	17601
2700	4.66932	1107	4.26588	1461	28.11833	15541	32.38422	17001
2800	4.68039	1070	4.28049	1397	28.27374	15045	32.55423	16443
2900	4.69109	1037	4.29446	1340	28.42419	14582	32.71866	15921
3000	4.70146	1988	4.30786	2523	28.57001	27884	32.87787	30407
3200	4.72134	1892	4.33309	2339	28.84885	26340	33.18194	28680
3400	4.74026	1813	4.35648	2183	29.11225	24963	33.46874	27146
3600	4.75839	1748	4.37831	2047	29.36188	23728	33.74020	25775
3800	4.77587	1692	4.39878	1928	29.59916	22612	33.99795	24540
4000	4.79279	1644	4.41806	1824	29.82528	21601	34.24335	23424
4200	4.80923	1602	4.43630	1731	30.04129	20678	34.47759	22410
4400	4.82525	1566	4.45361	1650	30.24807	19834	34.70169	21483
4600	4.84091	1533	4.47011	1577	30.44641	19058	34.91652	20636
4800	4.85624	1503	4.48588	1512	30.63699	18343	35.12288	19854
5000	4.87127		4.50100		30.82042		35.32142	

Table 2. 032. MgD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50087	8	3.47142	492	14.19456	63337	17.66599	63829
60	3.50095	11	3.47634	352	14.82793	53616	18.30428	53968
70	3.50106	12	3.47986	266	15.36409	46486	18.84396	46751
80	3.50118	14	3.48252	208	15.82895	41030	19.31147	41239
90	3.50132	18	3.48460	168	16.23925	36723	19.72386	36891
100	3.50150	28	3.48628	140	16.60648	33235	20.09277	33374
110	3.50178	50	3.48768	119	16.93883	30352	20.42651	30471
120	3.50228	84	3.48887	106	17.24235	27930	20.73122	28037
130	3.50312	139	3.48993	99	17.52165	25867	21.01159	25965
140	3.50451	213	3.49092	97	17.78032	24088	21.27124	24186
150	3.50664	307	3.49189	101	18.02120	22539	21.51310	22640
160	3.50971	417	3.49290	111	18.24659	21179	21.73950	21290
170	3.51388	542	3.49401	125	18.45838	19975	21.95240	20099
180	3.51930	674	3.49526	143	18.65813	18902	22.15339	19046
190	3.52604	812	3.49669	167	18.84715	17940	22.34385	18106
200	3.53416	950	3.49836	193	19.02655	17073	22.52491	17266
210	3.54366	1084	3.50029	221	19.19728	16288	22.69757	16509
220	3.55450	1212	3.50250	252	19.36016	15575	22.86266	15827
230	3.56662	1329	3.50502	284	19.51591	14923	23.02093	15207
240	3.57991	1436	3.50786	316	19.66514	14326	23.17300	14643
250	3.59427	1531	3.51102	350	19.80840	13777	23.31943	14126
260	3.60958	1614	3.51452	381	19.94617	13271	23.46069	13653
270	3.62572	1683	3.51833	414	20.07888	12803	23.59722	13216
280	3.64255	1741	3.52247	444	20.20691	12368	23.72938	12813
290	3.65996	1786	3.52691	473	20.33059	11965	23.85751	12437
300	3.67782	1820	3.53164	501	20.45024	11588	23.98188	12090
310	3.69602	1845	3.53665	527	20.56612	11237	24.10278	11763
320	3.71447	1859	3.54192	551	20.67849	10907	24.22041	11459
330	3.73306	1866	3.54743	573	20.78756	10599	24.33500	11172
340	3.75172	1864	3.55316	594	20.89355	10308	24.44672	10902
350	3.77036	1857	3.55910	613	20.99663	10035	24.55574	10647
360	3.78893	1844	3.56523	629	21.09698	9777	24.66221	10407
370	3.80737	1825	3.57152	645	21.19475	9533	24.76628	10178
380	3.82562	1802	3.57797	658	21.29008	9303	24.86806	9960
390	3.84364	1776	3.58455	670	21.38311	9083	24.96766	9754
400	3.86140	8404	3.59125	3477	21.47394	42498	25.06520	45974
450	3.94544	7498	3.62602	3576	21.89892	38389	25.52494	41966
500	4.02042	6575	3.66178	3566	22.28281	35068	25.94460	38634
550	4.08617	5722	3.69744	3484	22.63349	32322	26.33094	35806
600	4.14339	4971	3.73228	3358	22.95671	30008	26.68900	33366
650	4.19310	4324	3.76586	3210	23.25679	28027	27.02266	31236
700	4.23634	3775	3.79796	3051	23.53706	26308	27.33502	29359
750	4.27409	3312	3.82847	2891	23.80014	24801	27.62861	27693
800	4.30721	2923	3.85738	2733	24.04815	23468	27.90554	26201
850	4.33644	2593	3.88471	2583	24.28283	22279	28.16755	24862
900	4.36237	2316	3.91054	2441	24.50562	21209	28.41617	23649
950	4.38553	2081	3.93495	2305	24.71771	20243	28.65266	22549
1000	4.40634	1880	3.95800	2181	24.92014	19364	28.87815	21545
1050	4.42514	1708	3.97981	2064	25.11378	18562	29.09360	20625
1100	4.44222	1562	4.00045	1955	25.29940	17827	29.29985	19782
1150	4.45784	1435	4.02000	1854	25.47767	17148	29.49767	19003

Table 2.032. MgD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.47219	2556	4.03854	3437	25.64915	32464	29.68770	35900
1300	4.49775	2220	4.07291	3115	25.97379	30299	30.04670	33415
1400	4.51995	1963	4.10406	2840	26.27678	28414	30.38085	31253
1500	4.53958	1762	4.13246	2600	26.56092	26754	30.69338	29355
1600	4.55720	1601	4.15846	2394	26.82846	25283	30.98693	27676
1700	4.57321	1473	4.18240	2212	27.08129	23970	31.26369	26183
1800	4.58794	1369	4.20452	2055	27.32099	22788	31.52552	24842
1900	4.60163	1282	4.22507	1915	27.54887	21721	31.77394	23637
2000	4.61445	1212	4.24422	1792	27.76608	20752	32.01031	22543
2100	4.62657	1151	4.26214	1683	27.97360	19866	32.23574	21550
2200	4.63808	1101	4.27897	1585	28.17226	19057	32.45124	20641
2300	4.64909	1057	4.29482	1499	28.36283	18310	32.65765	19809
2400	4.65966	1020	4.30981	1419	28.54593	17623	32.85574	19043
2500	4.66986	988	4.32400	1350	28.72216	16985	33.04617	18335
2600	4.67974	960	4.33750	1285	28.89201	16394	33.22952	17679
2700	4.68934	935	4.35035	1228	29.05595	15844	33.40631	17071
2800	4.69869	913	4.36263	1174	29.21439	15330	33.57702	16504
2900	4.70782	893	4.37437	1127	29.36769	14849	33.74206	15976
3000	4.71675	1736	4.38564	2124	29.51618	28373	33.90182	30497
3200	4.73411	1677	4.40688	1974	29.79991	26776	34.20679	28751
3400	4.75088	1630	4.42662	1847	30.06767	25355	34.49430	27201
3600	4.76718	1588	4.44509	1737	30.32122	24080	34.76631	25818
3800	4.78306	1553	4.46246	1642	30.56202	22932	35.02449	24574
4000	4.79859	1522	4.47888	1559	30.79134	21890	35.27023	23449
4200	4.81381	1494	4.49447	1486	31.01024	20943	35.50472	22428
4400	4.82875	1469	4.50933	1420	31.21967	20077	35.72900	21498
4600	4.84344	1445	4.52353	1364	31.42044	19281	35.94398	20644
4800	4.85789	1425	4.53717	1311	31.61325	18548	36.15042	19860
5000	4.87214		4.55028		31.79873		36.34902	

Table 2. 033. MgT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50078	11	3.48932	342	14.60781	63486	18.08813	63828
60	3.50089	13	3.48374	245	15.24267	53721	18.72641	53967
70	3.50102	16	3.48619	187	15.77983	46565	19.26608	46751
80	3.50118	26	3.48806	147	16.24553	41092	19.73359	41239
90	3.50144	52	3.48953	121	16.65645	36772	20.14598	36894
100	3.50196	102	3.49074	106	17.02417	33276	20.51492	33382
110	3.50298	183	3.49180	101	17.35693	30387	20.84874	30487
120	3.50481	299	3.49281	103	17.66080	27961	21.15361	28064
130	3.50780	445	3.49384	114	17.94041	25896	21.43425	26011
140	3.51225	617	3.49498	135	18.19937	24118	21.69436	24252
150	3.51842	806	3.49633	162	18.44055	22570	21.93688	22732
160	3.52648	1002	3.49795	196	18.66625	21212	22.16420	21409
170	3.53650	1197	3.49991	236	18.87837	20011	22.37829	20247
180	3.54847	1383	3.50227	279	19.07848	18943	22.58076	19221
190	3.56230	1554	3.50506	324	19.26791	17987	22.77297	18312
200	3.57784	1708	3.50830	371	19.44778	17126	22.95609	17497
210	3.59492	1842	3.51201	419	19.61904	16347	23.13106	16765
220	3.61334	1952	3.51620	464	19.78251	15640	23.29871	16105
230	3.63286	2043	3.52084	509	19.93891	14995	23.45976	15504
240	3.65329	2111	3.52593	552	20.08886	14405	23.61480	14956
250	3.67440	2163	3.53145	591	20.23291	13862	23.76436	14453
260	3.69603	2194	3.53736	628	20.37153	13362	23.90889	13990
270	3.71797	2212	3.54364	662	20.50515	12899	24.04879	13562
280	3.74009	2215	3.55026	693	20.63414	12471	24.18441	13163
290	3.76224	2207	3.55719	720	20.75885	12071	24.31604	12792
300	3.78431	2187	3.56439	745	20.87956	11700	24.44396	12444
310	3.80618	2161	3.57184	766	20.99656	11352	24.56840	12119
320	3.82779	2126	3.57950	785	21.11008	11027	24.68959	11811
330	3.84905	2087	3.58735	800	21.22035	10721	24.80770	11522
340	3.86992	2042	3.59535	814	21.32756	10434	24.92292	11247
350	3.89034	1995	3.60349	825	21.43190	10162	25.03539	10988
360	3.91029	1945	3.61174	833	21.53352	9908	25.14527	10740
370	3.92974	1892	3.62007	840	21.63260	9665	25.25267	10505
380	3.94866	1839	3.62847	845	21.72925	9436	25.35772	10281
390	3.96705	1786	3.63692	847	21.82361	9218	25.46053	10066
400	3.98491	8128	3.64539	4237	21.91579	43182	25.56119	47418
450	4.06619	6878	3.68776	4138	22.34761	39070	26.03537	43208
500	4.13497	5798	3.72914	3960	22.73831	35730	26.46745	39690
550	4.19295	4896	3.76874	3745	23.09561	32954	26.86435	36700
600	4.24191	4157	3.80619	3516	23.42515	30606	27.23135	34122
650	4.28348	3556	3.84135	3288	23.73121	28590	27.57257	31877
700	4.31904	3066	3.87423	3070	24.01711	26835	27.89134	29906
750	4.34970	2665	3.90493	2865	24.28546	25294	28.19040	28159
800	4.37635	2338	3.93358	2675	24.53840	23929	28.47199	26603
850	4.39973	2067	3.96033	2499	24.77769	22708	28.73802	25208
900	4.42040	1842	3.98532	2340	25.00477	21611	28.99010	23950
950	4.43882	1654	4.00872	2192	25.22088	20618	29.22960	22811
1000	4.45536	1497	4.03064	2059	25.42706	19716	29.45771	21775
1050	4.47033	1364	4.05123	1936	25.62422	18892	29.67546	20828
1100	4.48397	1251	4.07059	1825	25.81314	18135	29.88374	19960
1150	4.49648	1153	4.08884	1723	25.99449	17439	30.08334	19161

Table 2. 033. MgT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.50801	2070	4.10607	3173	26.16888	32993	30.27495	36167
1300	4.52871	1818	4.13780	2859	26.49881	30771	30.63662	33629
1400	4.54689	1627	4.16639	2592	26.80652	28835	30.97291	31427
1500	4.56316	1478	4.19231	2364	27.09487	27133	31.28718	29498
1600	4.57794	1361	4.21595	2170	27.36620	25625	31.58216	27795
1700	4.59155	1266	4.23765	2002	27.62245	24280	31.86011	26281
1800	4.60421	1191	4.25767	1855	27.86525	23070	32.12292	24926
1900	4.61612	1127	4.27622	1728	28.09595	21979	32.37218	23706
2000	4.62739	1076	4.29350	1616	28.31574	20987	32.60924	22604
2100	4.63815	1031	4.30966	1517	28.52561	20084	32.83528	21600
2200	4.64846	995	4.32483	1429	28.72645	19257	33.05128	20686
2300	4.65841	963	4.33912	1350	28.91902	18496	33.25814	19846
2400	4.66804	936	4.35262	1281	29.10398	17794	33.45660	19075
2500	4.67740	912	4.36543	1217	29.28192	17145	33.64735	18363
2600	4.68652	891	4.37760	1161	29.45337	16544	33.83098	17704
2700	4.69543	872	4.38921	1109	29.61881	15982	34.00802	17092
2800	4.70415	856	4.40030	1063	29.77863	15460	34.17894	16523
2900	4.71271	841	4.41093	1020	29.93323	14971	34.34417	15991
3000	4.72112	1644	4.42113	1926	30.08294	28596	34.50408	30522
3200	4.73756	1600	4.44039	1796	30.36890	26974	34.80930	28769
3400	4.75356	1562	4.45835	1683	30.63864	25532	35.09699	27215
3600	4.76918	1529	4.47518	1588	30.89396	24239	35.36914	25827
3800	4.78447	1501	4.49106	1505	31.13635	23074	35.62741	24579
4000	4.79948	1476	4.50611	1432	31.36709	22021	35.87320	23453
4200	4.81424	1452	4.52043	1368	31.58730	21061	36.10773	22429
4400	4.82876	1432	4.53411	1313	31.79791	20184	36.33202	21497
4600	4.84308	1411	4.54724	1262	31.99975	19379	36.54699	20642
4800	4.85719	1394	4.55986	1217	32.19354	18639	36.75341	19856
5000	4.87113		4.57203		32.37993		36.95197	

Table 2. 034. CaH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50178	17	3.45980	701	14.53022	63146	17.99003	63846
60	3.50195	22	3.46681	504	15.16168	53481	18.62849	53985
70	3.50217	24	3.47185	380	15.69649	46386	19.16834	46767
80	3.50241	26	3.47565	299	16.16035	40955	19.63601	41254
90	3.50267	27	3.47864	242	16.56990	36664	20.04855	36905
100	3.50294	28	3.48106	200	16.93654	33188	20.41760	33388
110	3.50322	32	3.48306	169	17.26842	30314	20.75148	30484
120	3.50354	39	3.48475	146	17.57156	27899	21.05632	28045
130	3.50393	51	3.48621	129	17.85055	25840	21.33677	25968
140	3.50444	71	3.48750	115	18.10895	24065	21.59645	24181
150	3.50515	102	3.48865	106	18.34960	22519	21.83826	22625
160	3.50617	142	3.48971	101	18.57479	21159	22.06451	21260
170	3.50759	195	3.49072	99	18.78638	19956	22.27711	20054
180	3.50954	259	3.49171	100	18.98594	18881	22.47765	18981
190	3.51213	332	3.49271	105	19.17475	17918	22.66746	18023
200	3.51545	415	3.49376	113	19.35393	17049	22.84769	17162
210	3.51960	503	3.49489	123	19.52442	16261	23.01931	16385
220	3.52463	597	3.49612	137	19.68703	15544	23.18316	15680
230	3.53060	691	3.49749	152	19.84247	14888	23.33996	15040
240	3.53751	787	3.49901	169	19.99135	14287	23.49036	14457
250	3.54538	880	3.50070	189	20.13422	13734	23.63493	13922
260	3.55418	970	3.50259	209	20.27156	13222	23.77415	13432
270	3.56388	1055	3.50468	230	20.40378	12750	23.90847	12979
280	3.57443	1135	3.50698	252	20.53128	12311	24.03826	12563
290	3.58578	1208	3.50950	274	20.65439	11902	24.16389	12177
300	3.59786	1275	3.51224	296	20.77341	11522	24.28566	11818
310	3.61061	1333	3.51520	319	20.88863	11165	24.40384	11484
320	3.62394	1386	3.51839	341	21.00028	10832	24.51868	11172
330	3.63780	1430	3.52180	362	21.10860	10519	24.63040	10881
340	3.65210	1468	3.52542	383	21.21379	10225	24.73921	10608
350	3.66678	1499	3.52925	403	21.31604	9947	24.84529	10351
360	3.68177	1524	3.53328	421	21.41551	9687	24.94880	10108
370	3.69701	1542	3.53749	441	21.51238	9440	25.04988	9880
380	3.71243	1555	3.54190	457	21.60678	9206	25.14868	9663
390	3.72798	1564	3.54647	473	21.69884	8985	25.24531	9458
400	3.74362	7788	3.55120	2572	21.78869	41972	25.33989	44545
450	3.82150	7462	3.57692	2823	22.20841	37831	25.78534	40654
500	3.89612	6913	3.60515	2964	22.58672	34499	26.19188	37463
550	3.96525	6279	3.63479	3020	22.93171	31757	26.56651	34776
600	4.02804	5641	3.66499	3014	23.24928	29454	26.91427	32468
650	4.08445	5039	3.69513	2964	23.54382	27493	27.23895	30457
700	4.13484	4493	3.72477	2886	23.81875	25797	27.54352	28684
750	4.17977	4008	3.75363	2791	24.07672	24315	27.83036	27106
800	4.21985	3581	3.78154	2686	24.31987	23007	28.10142	25692
850	4.25566	3211	3.80840	2575	24.54994	21842	28.35834	24418
900	4.28777	2888	3.83415	2465	24.76836	20796	28.60252	23261
950	4.31665	2609	3.85880	2356	24.97632	19854	28.83513	22209
1000	4.34274	2366	3.88236	2249	25.17486	18997	29.05722	21247
1050	4.36640	2155	3.90485	2148	25.36483	18215	29.26969	20363
1100	4.38795	1971	3.92633	2050	25.54698	17499	29.47332	19549
1150	4.40766	1812	3.94683	1959	25.72197	16839	29.66881	18798

Table 2.034. CaH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.42578	3220	3.96642	3660	25.89036	31895	29.85679	35555
1300	4.45798	2785	4.00302	3352	26.20931	29790	30.21234	33142
1400	4.48583	2446	4.03654	3078	26.50721	27956	30.54376	31034
1500	4.51029	2177	4.06732	2838	26.78677	26342	30.85410	29179
1600	4.53206	1962	4.09570	2625	27.05019	24910	31.14589	27536
1700	4.55168	1789	4.12195	2438	27.29929	23630	31.42125	26068
1800	4.56957	1648	4.14633	2272	27.53559	22480	31.68193	24751
1900	4.58605	1530	4.16905	2123	27.76039	21439	31.92944	23563
2000	4.60135	1433	4.19028	1992	27.97478	20493	32.16507	22485
2100	4.61568	1351	4.21020	1874	28.17971	19629	32.38992	21503
2200	4.62919	1282	4.22894	1769	28.37600	18838	32.60495	20606
2300	4.64201	1223	4.24663	1673	28.56438	18109	32.81101	19783
2400	4.65424	1172	4.26336	1587	28.74547	17437	33.00884	19023
2500	4.66596	1128	4.27923	1509	28.91984	16813	33.19907	18323
2600	4.67724	1089	4.29432	1439	29.08797	16234	33.38230	17672
2700	4.68813	1056	4.30871	1374	29.25031	15695	33.55902	17069
2800	4.69869	1027	4.32245	1315	29.40726	15191	33.72971	16506
2900	4.70896	1000	4.33560	1261	29.55917	14720	33.89477	15981
3000	4.71896	1932	4.34821	2378	29.70637	28139	34.05458	30518
3200	4.73828	1855	4.37199	2210	29.98776	26573	34.35976	28782
3400	4.75683	1793	4.39409	2065	30.25349	25175	34.64758	27240
3600	4.77476	1740	4.41474	1941	30.50524	23921	34.91998	25863
3800	4.79216	1695	4.43415	1832	30.74445	22792	35.17861	24623
4000	4.80911	1655	4.45247	1738	30.97237	21766	35.42484	23504
4200	4.82566	1622	4.46985	1655	31.19003	20832	35.65988	22487
4400	4.84188	1591	4.48640	1580	31.39835	19978	35.88475	21558
4600	4.85779	1563	4.50220	1514	31.59813	19193	36.10033	20708
4800	4.87342	1538	4.51734	1455	31.79006	18471	36.30741	19925
5000	4.88880		4.53189		31.97477		36.50666	

Table 2. 035. CaD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50151	26	3.47973	366	15.21022	63477	18.68996	63842
60	3.50177	27	3.48339	264	15.84499	53718	19.32838	53982
70	3.50204	30	3.48603	202	16.38217	46563	19.86820	46766
80	3.50234	36	3.48805	161	16.84780	41093	20.33586	41253
90	3.50270	53	3.48966	133	17.25873	36774	20.74839	36907
100	3.50323	90	3.49099	115	17.62647	33279	21.11746	33394
110	3.50413	151	3.49214	105	17.95926	30390	21.45140	30496
120	3.50564	244	3.49319	105	18.26316	27964	21.75636	28069
130	3.50808	364	3.49424	111	18.54280	25900	22.03705	26010
140	3.51172	512	3.49535	125	18.80180	24119	22.29715	24245
150	3.51684	677	3.49660	147	19.04299	22571	22.53960	22718
160	3.52361	855	3.49807	174	19.26870	21212	22.76678	21386
170	3.53216	1036	3.49981	208	19.48082	20010	22.98064	20218
180	3.54252	1214	3.50189	245	19.68092	18941	23.18282	19185
190	3.55466	1382	3.50434	286	19.87033	17982	23.37467	18268
200	3.56848	1537	3.50720	327	20.05015	17119	23.55735	17447
210	3.58385	1675	3.51047	371	20.22134	16339	23.73182	16710
220	3.60060	1794	3.51418	415	20.38473	15630	23.89892	16045
230	3.61854	1895	3.51833	457	20.54103	14984	24.05937	15440
240	3.63749	1977	3.52290	497	20.69087	14391	24.21377	14889
250	3.65726	2039	3.52787	537	20.83478	13847	24.36266	14383
260	3.67765	2086	3.53324	573	20.97325	13345	24.50649	13919
270	3.69851	2116	3.53897	608	21.10670	12881	24.64568	13489
280	3.71967	2132	3.54505	639	21.23551	12451	24.78057	13090
290	3.74099	2137	3.55144	667	21.36002	12052	24.91147	12718
300	3.76236	2130	3.55811	693	21.48054	11678	25.03865	12372
310	3.78366	2115	3.56504	717	21.59732	11330	25.16237	12046
320	3.80481	2090	3.57221	736	21.71062	11003	25.28283	11740
330	3.82571	2061	3.57957	755	21.82065	10697	25.40023	11451
340	3.84632	2025	3.58712	769	21.92762	10410	25.51474	11179
350	3.86657	1986	3.59481	783	22.03172	10137	25.62653	10921
360	3.88643	1942	3.60264	793	22.13309	9882	25.73574	10675
370	3.90585	1897	3.61057	802	22.23191	9640	25.84249	10441
380	3.92482	1849	3.61859	809	22.32831	9409	25.94690	10219
390	3.94331	1800	3.62668	814	22.42240	9193	26.04909	10007
400	3.96131	8256	3.63482	4098	22.51433	43048	26.14916	47146
450	4.04387	7058	3.67580	4043	22.94481	38939	26.62062	42982
500	4.11445	5994	3.71623	3900	23.33420	35604	27.05044	39504
550	4.17439	5092	3.75523	3711	23.69024	32835	27.44548	36546
600	4.22531	4343	3.79234	3502	24.01859	30495	27.81094	33996
650	4.26874	3727	3.82736	3289	24.32354	28485	28.15090	31775
700	4.30601	3222	3.86025	3082	24.60839	26740	28.46865	29821
750	4.33823	2807	3.89107	2884	24.87579	25205	28.76686	28090
800	4.36630	2465	3.91991	2700	25.12784	23846	29.04776	26546
850	4.39095	2182	3.94691	2529	25.36630	22633	29.31322	25161
900	4.41277	1947	3.97220	2371	25.59263	21541	29.56483	23912
950	4.43224	1749	3.99591	2226	25.80804	20553	29.80395	22780
1000	4.44973	1583	4.01817	2093	26.01357	19656	30.03175	21749
1050	4.46556	1443	4.03910	1972	26.21013	18836	30.24924	20807
1100	4.47999	1323	4.05882	1860	26.39849	18084	30.45731	19944
1150	4.49322	1221	4.07742	1759	26.57933	17390	30.65675	19150

Table 2.035. CaD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.50543	2189	4.09501	3243	26.75323	32908	30.84825	36151
1300	4.52732	1923	4.12744	2926	27.08231	30697	31.20976	33623
1400	4.54655	1718	4.15670	2658	27.38928	28770	31.54599	31427
1500	4.56373	1561	4.18328	2427	27.67698	27077	31.86026	29505
1600	4.57934	1436	4.20755	2230	27.94775	25576	32.15531	27805
1700	4.59370	1335	4.22985	2059	28.20351	24236	32.43336	26295
1800	4.60705	1255	4.25044	1910	28.44587	23033	32.69631	24943
1900	4.61960	1187	4.26954	1780	28.67620	21946	32.94574	23726
2000	4.63147	1133	4.28734	1666	28.89566	20959	33.18300	22625
2100	4.64280	1086	4.30400	1565	29.10525	20058	33.40925	21624
2200	4.65366	1047	4.31965	1475	29.30583	19235	33.62549	20709
2300	4.66413	1013	4.33440	1395	29.49818	18477	33.83258	19872
2400	4.67426	984	4.34835	1323	29.68295	17777	34.03130	19101
2500	4.68410	959	4.36158	1259	29.86072	17132	34.22231	18390
2600	4.69369	937	4.37417	1201	30.03204	16531	34.40621	17732
2700	4.70306	918	4.38618	1148	30.19735	15972	34.58353	17121
2800	4.71224	900	4.39766	1101	30.35707	15451	34.75474	16551
2900	4.72124	884	4.40867	1056	30.51158	14964	34.92025	16021
3000	4.73008	1729	4.41923	1997	30.66122	28586	35.08046	30583
3200	4.74737	1683	4.43920	1863	30.94708	26969	35.38629	28831
3400	4.76420	1644	4.45783	1748	31.21677	25530	35.67460	27279
3600	4.78064	1610	4.47531	1649	31.47207	24242	35.94739	25890
3800	4.79674	1580	4.49180	1565	31.71449	23080	36.20629	24645
4000	4.81254	1555	4.50745	1490	31.94529	22028	36.45274	23518
4200	4.82809	1531	4.52235	1424	32.16557	21071	36.68792	22496
4400	4.84340	1509	4.53659	1367	32.37628	20196	36.91288	21563
4600	4.85849	1490	4.55026	1315	32.57824	19394	37.12851	20709
4800	4.87339	1471	4.56341	1270	32.77218	18655	37.33560	19924
5000	4.88810		4.57611		32.95873		37.53484	

Table 2. 036. CaT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50147	27	3.48639	253	15.61939	63588	19.10578	63842
60	3.50174	32	3.48892	186	16.25527	53797	19.74420	53982
70	3.50206	47	3.49078	143	16.79324	46622	20.28402	46766
80	3.50253	89	3.49221	119	17.25946	41140	20.75168	41259
90	3.50342	173	3.49340	108	17.67086	36812	21.16427	36920
100	3.50515	308	3.49448	110	18.03898	33311	21.53347	33421
110	3.50823	494	3.49558	125	18.37209	30421	21.86768	30545
120	3.51317	720	3.49683	152	18.67630	27995	22.17313	28148
130	3.52037	972	3.49835	190	18.95625	25933	22.45461	26122
140	3.53009	1235	3.50025	239	19.21558	24157	22.71583	24396
150	3.54244	1491	3.50264	294	19.45715	22614	22.95979	22909
160	3.55735	1729	3.50558	354	19.68329	21263	23.18888	21617
170	3.57464	1942	3.50912	417	19.89592	20069	23.40505	20486
180	3.59406	2123	3.51329	480	20.09661	19008	23.60991	19488
190	3.61529	2271	3.51809	543	20.28669	18059	23.80479	18601
200	3.63800	2385	3.52352	601	20.46728	17206	23.99080	17808
210	3.66185	2468	3.52953	657	20.63934	16434	24.16888	17091
220	3.68653	2523	3.53610	709	20.80368	15734	24.33979	16443
230	3.71176	2552	3.54319	756	20.96102	15096	24.50422	15951
240	3.73728	2559	3.55075	797	21.11198	14511	24.66273	15308
250	3.76287	2546	3.55872	834	21.25709	13974	24.81581	14808
260	3.78833	2519	3.56706	866	21.39683	13478	24.96389	14345
270	3.81352	2480	3.57572	894	21.53161	13020	25.10734	13914
280	3.83832	2428	3.58466	917	21.66181	12595	25.24648	13511
290	3.86260	2371	3.59383	935	21.78776	12199	25.38159	13135
300	3.88631	2308	3.60318	951	21.90975	11831	25.51294	12781
310	3.90939	2240	3.61269	963	22.02806	11485	25.64075	12448
320	3.93179	2169	3.62232	970	22.14291	11161	25.76523	12132
330	3.95348	2097	3.63202	977	22.25452	10857	25.88655	11834
340	3.97445	2024	3.64179	979	22.36309	10571	26.00489	11550
350	3.99469	1952	3.65158	981	22.46880	10301	26.12039	11281
360	4.01421	1881	3.66139	979	22.57181	10045	26.23320	11024
370	4.03302	1809	3.67118	976	22.67226	9803	26.34344	10780
380	4.05111	1740	3.68094	972	22.77029	9574	26.45124	10545
390	4.06851	1673	3.69066	965	22.86603	9356	26.55669	10322
400	4.08524	7432	3.70031	4704	22.95959	43858	26.65991	48561
450	4.15956	6086	3.74735	4437	23.39817	39714	27.14552	44151
500	4.22042	5008	3.79172	4132	23.79531	36335	27.58703	40468
550	4.27050	4159	3.83304	3824	24.15866	33518	27.99171	37342
600	4.31209	3490	3.87128	3529	24.49384	31128	28.36513	34656
650	4.34699	2962	3.90657	3254	24.80512	29072	28.71169	32326
700	4.37661	2542	3.93911	3004	25.09584	27281	29.03495	30285
750	4.40203	2206	3.96915	2776	25.36865	25706	29.33780	28482
800	4.42409	1934	3.99691	2571	25.62571	24309	29.62262	26880
850	4.44343	1714	4.02262	2386	25.86880	23061	29.89142	25448
900	4.46057	1531	4.04648	2220	26.09941	21939	30.14590	24158
950	4.47588	1382	4.06868	2071	26.31880	20922	30.38748	22994
1000	4.48970	1257	4.08939	1937	26.52802	20000	30.61742	21937
1050	4.50227	1151	4.10876	1815	26.72802	19156	30.83679	20971
1100	4.51378	1063	4.12691	1706	26.91958	18383	31.04650	20088
1150	4.52441	987	4.14397	1606	27.10341	17671	31.24738	19277

Table 2. 036. CaT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.53428	1789	4.16003	2949	27.28012	33417	31.44015	36366
1300	4.55217	1596	4.18952	2648	27.61429	31146	31.80381	33795
1400	4.56813	1448	4.21600	2397	27.92575	29171	32.14176	31567
1500	4.58261	1334	4.23997	2183	28.21746	27435	32.45743	29618
1600	4.59595	1244	4.26180	2003	28.49181	25898	32.75361	27901
1700	4.60839	1173	4.28183	1847	28.75079	24527	33.03262	26374
1800	4.62012	1114	4.30030	1713	28.99606	23297	33.29636	25010
1900	4.63126	1067	4.31743	1596	29.22903	22186	33.54646	23783
2000	4.64193	1027	4.33339	1494	29.45089	21180	33.78429	22673
2100	4.65220	993	4.34833	1404	29.66269	20261	34.01102	21665
2200	4.66213	965	4.36237	1324	29.86530	19421	34.22767	20745
2300	4.67178	941	4.37561	1254	30.05951	18649	34.43512	19903
2400	4.68119	920	4.38815	1190	30.24600	17938	34.63415	19128
2500	4.69039	901	4.40005	1134	30.42538	17279	34.82543	18414
2600	4.69940	884	4.41139	1084	30.59817	16669	35.00957	17752
2700	4.70824	871	4.42223	1037	30.76486	16102	35.18709	17139
2800	4.71695	857	4.43260	995	30.92588	15572	35.35848	16567
2900	4.72552	846	4.44255	957	31.08160	15077	35.52415	16035
3000	4.73398	1660	4.45212	1814	31.23237	28792	35.68450	30606
3200	4.75058	1625	4.47026	1697	31.52029	27152	35.99056	28849
3400	4.76683	1594	4.48723	1598	31.79181	25694	36.27905	27291
3600	4.78277	1567	4.50321	1512	32.04875	24389	36.55196	25902
3800	4.79844	1543	4.51833	1439	32.29264	23213	36.81098	24652
4000	4.81387	1521	4.53272	1376	32.52477	22149	37.05750	23524
4200	4.82908	1501	4.54648	1318	32.74626	21180	37.29274	22499
4400	4.84409	1483	4.55966	1269	32.95806	20297	37.51773	21566
4600	4.85892	1466	4.57235	1225	33.16103	19486	37.73339	20710
4800	4.87358	1449	4.58460	1185	33.35589	18739	37.94049	19925
5000	4.88807		4.59645		33.54328		38.13974	

Table 2. 037. SrH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50167	21	3.46560	603	15.82936	63242	19.29497	63844
60	3.50188	23	3.47163	434	16.46178	53550	19.93341	53984
70	3.50211	25	3.47597	328	16.99728	46437	20.47325	46766
80	3.50236	27	3.47925	258	17.46165	40996	20.94091	41253
90	3.50263	28	3.48183	210	17.87161	36696	21.35344	36906
100	3.50291	31	3.48393	173	18.23857	33213	21.72250	33387
110	3.50322	38	3.48566	148	18.57070	30336	22.05637	30484
120	3.50360	51	3.48714	129	18.87406	27917	22.36121	28046
130	3.50411	75	3.48843	114	19.15323	25857	22.64167	25970
140	3.50486	110	3.48957	106	19.41180	24079	22.90137	24185
150	3.50596	159	3.49063	100	19.65259	22531	23.14322	22632
160	3.50755	223	3.49163	100	19.87790	21171	23.36954	21271
170	3.50978	299	3.49263	103	20.08961	19966	23.58225	20069
180	3.51277	388	3.49366	111	20.28927	18893	23.78294	19003
190	3.51665	487	3.49477	121	20.47820	17928	23.97297	18050
200	3.52152	592	3.49598	135	20.65748	17061	24.15347	17195
210	3.52744	700	3.49733	152	20.82809	16273	24.32542	16426
220	3.53444	811	3.49885	172	20.99082	15556	24.48968	15728
230	3.54255	919	3.50057	194	21.14638	14903	24.64696	15096
240	3.55174	1024	3.50251	217	21.29541	14302	24.79792	14520
250	3.56198	1124	3.50468	242	21.43843	13750	24.94312	13992
260	3.57322	1215	3.50710	267	21.57593	13241	25.08304	13508
270	3.58537	1300	3.50977	293	21.70834	12770	25.21812	13062
280	3.59837	1376	3.51270	319	21.83604	12332	25.34874	12651
290	3.61213	1443	3.51589	345	21.95936	11925	25.47525	12270
300	3.62656	1500	3.51934	369	22.07861	11546	25.59795	11916
310	3.64156	1549	3.52303	395	22.19407	11191	25.71711	11585
320	3.65705	1590	3.52698	418	22.30598	10859	25.83296	11278
330	3.67295	1622	3.53116	441	22.41457	10548	25.94574	10989
340	3.68917	1646	3.53557	462	22.52005	10256	26.05563	10718
350	3.70563	1664	3.54019	483	22.62261	9980	26.16281	10462
360	3.72227	1674	3.54502	502	22.72241	9719	26.26743	10221
370	3.73901	1680	3.55004	519	22.81960	9475	26.36964	9994
380	3.75581	1679	3.55523	536	22.91435	9241	26.46958	9778
390	3.77260	1673	3.56059	551	23.00676	9022	26.56736	9572
400	3.78933	8161	3.56610	2938	23.09698	42169	26.66308	45108
450	3.87094	7589	3.59548	3139	23.51867	38044	27.11416	41183
500	3.94683	6870	3.62687	3227	23.89911	34719	27.52599	37945
550	4.01553	6128	3.65914	3230	24.24630	31977	27.90544	35208
600	4.07681	5428	3.69144	3178	24.56607	29673	28.25752	32851
650	4.13109	4794	3.72322	3088	24.86280	27706	28.58603	30793
700	4.17903	4237	3.75410	2977	25.13986	26003	28.89396	28980
750	4.22140	3753	3.78387	2854	25.39989	24512	29.18376	27367
800	4.25893	3336	3.81241	2727	25.64501	23195	29.45743	25922
850	4.29229	2978	3.83968	2598	25.87696	22022	29.71665	24619
900	4.32207	2671	3.86566	2474	26.09718	20967	29.96284	23442
950	4.34878	2407	3.89040	2353	26.30685	20016	30.19726	22368
1000	4.37285	2180	3.91393	2238	26.50701	19150	30.42094	21389
1050	4.39465	1984	3.93631	2129	26.69851	18362	30.63483	20490
1100	4.41449	1815	3.95760	2027	26.88213	17637	30.83973	19664
1150	4.43264	1668	3.97787	1930	27.05850	16971	31.03637	18901

Table 2. 037. SrH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.44932	2968	3.99717	3595	27.22821	32138	31.22538	35734
1300	4.47900	2574	4.03312	3279	27.54959	30011	31.58272	33289
1400	4.50474	2269	4.06591	3003	27.84970	28156	31.91561	31159
1500	4.52743	2027	4.09594	2761	28.13126	26524	32.22720	29285
1600	4.54770	1836	4.12355	2550	28.39650	25076	32.52005	27626
1700	4.56606	1682	4.14905	2364	28.64726	23783	32.79631	26147
1800	4.58288	1555	4.17269	2200	28.88509	22620	33.05778	24821
1900	4.59843	1452	4.19469	2056	29.11129	21569	33.30599	23624
2000	4.61295	1365	4.21525	1926	29.32698	20614	33.54223	22540
2100	4.62660	1293	4.23451	1812	29.53312	19741	33.76763	21553
2200	4.63953	1232	4.25263	1709	29.73053	18942	33.98316	20651
2300	4.65185	1180	4.26972	1617	29.91995	18206	34.18967	19823
2400	4.66365	1134	4.28589	1534	30.10201	17527	34.38790	19062
2500	4.67499	1095	4.30123	1459	30.27728	16898	34.57852	18357
2600	4.68594	1062	4.31582	1390	30.44626	16315	34.76209	17705
2700	4.69656	1031	4.32972	1329	30.60941	15770	34.93914	17099
2800	4.70687	1005	4.34301	1272	30.76711	15263	35.11013	16534
2900	4.71692	982	4.35573	1220	30.91974	14787	35.27547	16008
3000	4.72674	1902	4.36793	2303	31.06761	28265	35.43555	30567
3200	4.74576	1834	4.39096	2141	31.35026	26685	35.74122	28826
3400	4.76410	1778	4.41237	2004	31.61711	25277	36.02948	27282
3600	4.78188	1729	4.43241	1885	31.86988	24016	36.30230	25901
3800	4.79917	1688	4.45126	1782	32.11004	22878	36.56131	24659
4000	4.81605	1653	4.46908	1692	32.33882	21846	36.80790	23538
4200	4.83258	1620	4.48600	1612	32.55728	20906	37.04328	22519
4400	4.84878	1592	4.50212	1542	32.76634	20047	37.26847	21599
4600	4.86470	1567	4.51754	1479	32.96681	19258	37.48436	20737
4800	4.88037	1542	4.53233	1423	33.15939	18531	37.69173	19954
5000	4.89579		4.54656		33.34470		37.89127	

Table 2. 038. SrD

λ_K	$\frac{C_p^\circ}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
50	3.50148	26	3.48293	312	16.50612	63531	19.98906	63842
60	3.50174	28	3.48605	226	17.14143	53755	20.62748	53982
70	3.50202	33	3.48831	173	17.67898	46592	21.16730	46765
80	3.50235	48	3.49004	139	18.14490	41115	21.63495	41254
90	3.50283	84	3.49143	118	18.55605	36792	22.04749	36910
100	3.50367	151	3.49261	107	18.92397	33294	22.41659	33400
110	3.50518	255	3.49368	106	19.25691	30403	22.75059	30509
120	3.50773	396	3.49474	114	19.56094	27978	23.05568	28092
130	3.51169	570	3.49588	132	19.84072	25912	23.33660	26044
140	3.51739	766	3.49720	159	20.09984	24133	23.59704	24292
150	3.52505	976	3.49879	193	20.34117	22587	23.83996	22781
160	3.53481	1187	3.50072	235	20.56704	21230	24.06777	21464
170	3.54668	1392	3.50307	280	20.77934	20030	24.28241	20311
180	3.56060	1582	3.50587	329	20.97964	18964	24.48552	19292
190	3.57642	1752	3.50916	379	21.16928	18009	24.67844	18389
200	3.59394	1900	3.51295	431	21.34937	17150	24.86233	17580
210	3.61294	2024	3.51726	480	21.52087	16373	25.03813	16854
220	3.63318	2123	3.52206	529	21.68460	15668	25.20667	16197
230	3.65441	2199	3.52735	575	21.84128	15024	25.36864	15599
240	3.67640	2253	3.53310	618	21.99152	14436	25.52463	15053
250	3.69893	2288	3.53928	658	22.13588	13894	25.67516	14552
260	3.72181	2305	3.54586	694	22.27482	13395	25.82068	14090
270	3.74486	2307	3.55280	728	22.40877	12934	25.96158	13661
280	3.76793	2296	3.56008	756	22.53811	12505	26.09819	13262
290	3.79089	2273	3.56764	782	22.66316	12108	26.23081	12890
300	3.81362	2242	3.57546	805	22.78424	11737	26.35971	12541
310	3.83604	2203	3.58351	823	22.90161	11391	26.48512	12214
320	3.85807	2158	3.59174	840	23.01552	11065	26.60726	11905
330	3.87965	2108	3.60014	853	23.12617	10760	26.72631	11614
340	3.90073	2055	3.60867	864	23.23377	10473	26.84245	11337
350	3.92128	2030	3.61731	873	23.33850	10202	26.95582	11075
360	3.94128	1942	3.62604	878	23.44052	9947	27.06657	10825
370	3.96070	1884	3.63482	882	23.53999	9706	27.17482	10588
380	3.97954	1826	3.64364	885	23.63705	9476	27.28070	10360
390	3.99780	1767	3.65249	886	23.73181	9258	27.38430	10144
400	4.01547	7987	3.66135	4391	23.82439	43379	27.48574	47770
450	4.09534	6694	3.70526	4245	24.25818	39260	27.96344	43506
500	4.16228	5603	3.74771	4031	24.65078	35911	28.39850	39342
550	4.21831	4710	3.78802	3788	25.00989	33124	28.79792	36912
600	4.26541	3986	3.82590	3538	25.34113	30765	29.16704	34303
650	4.30527	3403	3.86128	3296	25.64878	28737	29.51007	32033
700	4.33930	2931	3.89424	3067	25.93615	26974	29.83040	30041
750	4.36861	2548	3.92491	2855	26.20589	25423	30.13081	28277
800	4.39409	2236	3.95346	2659	26.46012	24048	30.41358	26708
850	4.41645	1980	3.98005	2481	26.70060	22821	30.68066	25301
900	4.43625	1767	4.00486	2317	26.92881	21716	30.93367	24034
950	4.45392	1591	4.02803	2170	27.14597	20717	31.17401	22886
1000	4.46983	1442	4.04973	2036	27.35314	19808	31.40287	21844
1050	4.48425	1318	4.07009	1913	27.55122	18979	31.62131	20892
1100	4.49743	1212	4.08922	1801	27.74101	18217	31.83023	20019
1150	4.50955	1121	4.10723	1700	27.92318	17517	32.03042	19216

Table 2.038. SrD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.52076	2021	4.12423	3130	28.09835	33137	32.22258	36267
1300	4.54097	1787	4.15553	2818	28.42972	30901	32.58525	33719
1400	4.55884	1609	4.18371	2555	28.73873	28953	32.92244	31509
1500	4.57493	1471	4.20926	2332	29.02826	27241	33.23753	29573
1600	4.58964	1362	4.23258	2141	29.30067	25725	33.53326	27866
1700	4.60326	1275	4.25399	1976	29.55792	24372	33.81192	26348
1800	4.61601	1204	4.27375	1834	29.80164	23157	34.07540	24990
1900	4.62805	1146	4.29209	1708	30.03321	22060	34.32530	23768
2000	4.63951	1097	4.30917	1600	30.25381	21063	34.56298	22663
2100	4.65048	1058	4.32517	1503	30.46444	20156	34.78961	21659
2200	4.66106	1022	4.34020	1417	30.66600	19324	35.00620	20742
2300	4.67128	994	4.35437	1341	30.85924	18561	35.21362	19902
2400	4.68122	968	4.36778	1273	31.04485	17856	35.41264	19129
2500	4.69090	946	4.38051	1212	31.22341	17205	35.60393	18417
2600	4.70036	926	4.39263	1157	31.39546	16600	35.78810	17756
2700	4.70962	909	4.40420	1107	31.56146	16037	35.96566	17145
2800	4.71871	894	4.41527	1062	31.72183	15512	36.13711	16574
2900	4.72765	880	4.42589	1021	31.87695	15022	36.30285	16042
3000	4.73645	1723	4.43610	1931	32.02717	28692	36.46327	30624
3200	4.75368	1682	4.45541	1804	32.31409	27066	36.76951	28870
3400	4.77050	1646	4.47345	1696	32.58475	25618	37.05821	27314
3600	4.78696	1615	4.49041	1604	32.84093	24322	37.33135	25925
3800	4.80311	1588	4.50645	1523	33.08415	23154	37.59060	24677
4000	4.81899	1563	4.52168	1453	33.31569	22097	37.83737	23550
4200	4.83462	1542	4.53621	1391	33.53666	21135	38.07287	22527
4400	4.85004	1520	4.55012	1338	33.74801	20255	38.29814	21592
4600	4.86524	1502	4.56350	1288	33.95056	19450	38.51406	20739
4800	4.88026	1484	4.57638	1245	34.14506	18707	38.72145	19952
5000	4.89510		4.58883		34.33213		38.92097	

Table 2.039. SrT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50144	29	3.48871	215	16.90927	63626	20.39798	63841
60	3.50173	40	3.49086	158	17.54553	53825	21.03639	53983
70	3.50213	75	3.49244	125	18.08378	46643	21.57622	46768
80	3.50288	158	3.49369	110	18.55021	41156	22.04390	41266
90	3.50446	307	3.49479	110	18.96177	36827	22.45656	36938
100	3.50753	519	3.49589	128	19.33004	33325	22.82594	33453
110	3.51272	786	3.49717	160	19.66329	30436	23.16047	30596
120	3.52058	1087	3.49877	208	19.96765	28013	23.46643	28221
130	3.53145	1397	3.50085	266	20.24778	25954	23.74864	26220
140	3.54542	1696	3.50351	335	20.50732	24183	24.01084	24517
150	3.56238	1969	3.50686	407	20.74915	22645	24.25601	23052
160	3.58207	2206	3.51093	482	20.97560	21299	24.48653	21782
170	3.60413	2400	3.51575	557	21.18859	20111	24.70435	20667
180	3.62813	2552	3.52132	629	21.38970	19055	24.91102	19685
190	3.65365	2662	3.52761	696	21.58025	18112	25.10787	18808
200	3.68027	2733	3.53457	759	21.76137	17263	25.29595	18022
210	3.70760	2772	3.54216	815	21.93400	16497	25.47617	17311
220	3.73532	2780	3.55031	865	22.09897	15801	25.64928	16666
230	3.76312	2765	3.55896	908	22.25698	15166	25.81594	16074
240	3.79077	2731	3.56804	946	22.40864	14584	25.97668	15530
250	3.81808	2680	3.57750	977	22.55448	14050	26.13198	15028
260	3.84488	2617	3.58727	1003	22.69498	13558	26.28226	14560
270	3.87105	2546	3.59730	1023	22.83056	13100	26.42786	14124
280	3.89651	2467	3.60753	1039	22.96156	12678	26.56910	13717
290	3.92118	2386	3.61792	1051	23.08834	12283	26.70627	13333
300	3.94504	2300	3.62843	1059	23.21117	11915	26.83960	12974
310	3.96804	2214	3.63902	1063	23.33032	11570	26.96934	12633
320	3.99018	2128	3.64965	1064	23.44602	11247	27.09567	12311
330	4.01146	2042	3.66029	1063	23.55849	10943	27.21878	12006
340	4.03188	1959	3.67092	1060	23.66792	10656	27.33884	11716
350	4.05147	1877	3.68152	1054	23.77448	10386	27.45600	11440
360	4.07024	1798	3.69206	1046	23.87834	10130	27.57040	11177
370	4.08822	1721	3.70252	1038	23.97964	9888	27.68217	10925
380	4.10543	1648	3.71290	1028	24.07852	9658	27.79142	10686
390	4.12191	1576	3.72318	1016	24.17510	9439	27.89828	10456
400	4.13767	6926	3.73334	4892	24.26949	44258	28.00284	49149
450	4.20693	5588	3.78226	4536	24.71207	40088	28.49433	44624
500	4.26281	4552	3.82762	4170	25.11295	36680	28.94057	40850
550	4.30833	3756	3.86932	3819	25.47975	33833	29.34907	37653
600	4.34589	3138	3.90751	3497	25.81808	31417	29.72560	34914
650	4.37727	2658	3.94248	3203	26.13225	29336	30.07474	32539
700	4.40385	2280	3.97451	2940	26.42561	27523	30.40013	30463
750	4.42665	1980	4.00391	2705	26.70084	25928	30.70476	28633
800	4.44645	1739	4.03096	2497	26.96012	24514	30.99109	27010
850	4.46384	1544	4.05593	2310	27.20526	23249	31.26119	25559
900	4.47928	1385	4.07903	2143	27.43775	22113	31.51678	24256
950	4.49313	1254	4.10046	1995	27.65888	21084	31.75934	23079
1000	4.50567	1145	4.12041	1863	27.86972	20149	31.99013	22012
1050	4.51712	1053	4.13904	1742	28.07121	19295	32.21025	21038
1100	4.52765	976	4.15646	1636	28.26416	18513	32.42063	20148
1150	4.53741	911	4.17282	1538	28.44929	17792	32.62211	19331

Table 2. 039. SrT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.54652	1663	4.18820	2822	28.62721	33637	32.81542	36458
1300	4.56315	1495	4.21642	2531	28.96358	31341	33.18000	33872
1400	4.57810	1369	4.24173	2288	29.27699	29345	33.51872	31633
1500	4.59179	1270	4.26461	2085	29.57044	27590	33.83505	29676
1600	4.60449	1194	4.28546	1912	29.84634	26039	34.13181	27951
1700	4.61643	1131	4.30458	1765	30.10673	24655	34.41132	26419
1800	4.62774	1082	4.32223	1636	30.35328	23414	34.67551	25050
1900	4.63856	1040	4.33859	1526	30.58742	22293	34.92601	23820
2000	4.64896	1006	4.35385	1430	30.81035	21277	35.16421	22706
2100	4.65902	977	4.36815	1344	31.02312	20352	35.39127	21697
2200	4.66879	952	4.38159	1269	31.22664	19506	35.60824	20774
2300	4.67831	931	4.39428	1203	31.42170	18727	35.81598	19931
2400	4.68762	912	4.40631	1144	31.60897	18011	36.01529	19154
2500	4.69674	896	4.41775	1090	31.78908	17348	36.20683	18439
2600	4.70570	882	4.42865	1043	31.96256	16734	36.39122	17776
2700	4.71452	868	4.43908	999	32.12990	16162	36.56898	17161
2800	4.72320	858	4.44907	960	32.29152	15629	36.74059	16590
2900	4.73178	846	4.45867	924	32.44781	15131	36.90649	16055
3000	4.74024	1666	4.46791	1755	32.59912	28892	37.06704	30646
3200	4.75690	1633	4.48546	1645	32.88804	27243	37.37350	28888
3400	4.77323	1605	4.50191	1552	33.16047	25777	37.66238	27329
3600	4.78928	1579	4.51743	1472	33.41824	24464	37.93567	25937
3800	4.80507	1557	4.53215	1404	33.66288	23283	38.19504	24686
4000	4.82064	1536	4.54619	1343	33.89571	22213	38.44190	23557
4200	4.83600	1518	4.55962	1291	34.11784	21242	38.67747	22532
4400	4.85118	1499	4.57253	1244	34.33026	20353	38.90279	21598
4600	4.86617	1483	4.58497	1203	34.53379	19539	39.11877	20742
4800	4.88100	1467	4.59700	1165	34.72918	18790	39.32619	19955
5000	4.89567		4.60865		34.91708		39.52574	

Table 2.040. BaH

λ_K	$\frac{C_p^\circ}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
50	3.50159	21	3.46835	556	16.57619	63288	20.04455	63843
60	3.50180	23	3.47391	400	17.20907	53582	20.68298	53982
70	3.50203	25	3.47791	303	17.74489	46462	21.22280	46765
80	3.50228	26	3.48094	239	18.20951	41014	21.69045	41253
90	3.50254	28	3.48333	193	18.61965	36711	22.10298	36904
100	3.50282	32	3.48526	161	18.98676	33225	22.47202	33387
110	3.50314	42	3.48687	137	19.31901	30346	22.80589	30483
120	3.50356	58	3.48824	120	19.62247	27926	23.11072	28046
130	3.50414	88	3.48944	108	19.90173	25864	23.39118	25971
140	3.50502	130	3.49052	101	20.16037	24085	23.65089	24187
150	3.50632	189	3.49153	98	20.40122	22537	23.89276	22635
160	3.50821	262	3.49251	100	20.62659	21176	24.11911	21275
170	3.51083	349	3.49351	105	20.83835	19972	24.33186	20077
180	3.51432	448	3.49456	115	21.03807	18897	24.53263	19013
190	3.51880	556	3.49571	129	21.22704	17934	24.72276	18062
200	3.52436	670	3.49700	146	21.40638	17065	24.90338	17212
210	3.53106	785	3.49846	166	21.57703	16279	25.07550	16444
220	3.53891	901	3.50012	187	21.73982	15562	25.23994	15750
230	3.54792	1013	3.50199	213	21.89544	14909	25.39744	15121
240	3.55805	1120	3.50412	237	22.04453	14309	25.54865	14547
250	3.56925	1219	3.50649	265	22.18762	13758	25.69412	14023
260	3.58144	1311	3.50914	292	22.32520	13249	25.83435	13540
270	3.59455	1392	3.51206	319	22.45769	12778	25.96975	13098
280	3.60847	1465	3.51525	346	22.58547	12342	26.10073	12688
290	3.62312	1528	3.51871	374	22.70889	11935	26.22761	12308
300	3.63840	1580	3.52245	399	22.82824	11557	26.35069	11956
310	3.65420	1624	3.52644	425	22.94381	11202	26.47025	11627
320	3.67044	1659	3.53069	448	23.05583	10872	26.58652	11320
330	3.68703	1685	3.53517	472	23.16455	10560	26.69972	11032
340	3.70388	1704	3.53989	492	23.27015	10268	26.81004	10761
350	3.72092	1715	3.54481	513	23.37283	9994	26.91765	10507
360	3.73807	1720	3.54994	532	23.47277	9733	27.02272	10265
370	3.75527	1719	3.55526	549	23.57010	9489	27.12537	10037
380	3.77246	1714	3.56075	565	23.66499	9256	27.22574	9822
390	3.78960	1703	3.56640	579	23.75755	9037	27.32396	9616
400	3.80663	8237	3.57219	3068	23.84792	42249	27.42012	45316
450	3.88900	7576	3.60287	3246	24.27041	38127	27.87328	41374
500	3.96476	6800	3.63533	3310	24.65168	34804	28.28702	38113
550	4.03276	6025	3.66843	3292	24.99972	32061	28.66815	35354
600	4.09301	5308	3.70135	3222	25.32033	29754	29.02169	32975
650	4.14609	4667	3.73357	3116	25.61787	27784	29.35144	30901
700	4.19276	4111	3.76473	2994	25.89571	26077	29.66045	29070
750	4.23387	3630	3.79467	2861	26.15648	24582	29.95115	27443
800	4.27017	3219	3.82328	2725	26.40230	23261	30.22558	25986
850	4.30236	2868	3.85053	2591	26.63491	22083	30.48544	24675
900	4.33104	2568	3.87644	2462	26.85574	21025	30.73219	23486
950	4.35672	2310	3.90106	2337	27.06599	20070	30.96705	22407
1000	4.37982	2099	3.92443	2219	27.26669	19202	31.19112	21421
1050	4.40073	1901	3.94662	2108	27.45871	18408	31.40533	20517
1100	4.41974	1738	3.96770	2004	27.64279	17682	31.61050	19685
1150	4.43712	1596	3.98774	1906	27.81961	17012	31.80735	18919

Table 2.040. BaH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.45308	2838	4.00680	3545	27.98973	32214	31.99654	35758
1300	4.48146	2460	4.04225	3227	28.31187	30076	32.35412	33304
1400	4.50606	2167	4.07452	2950	28.61263	28214	32.68716	31164
1500	4.52773	1938	4.10402	2710	28.89477	26574	32.99880	29284
1600	4.54711	1754	4.13112	2499	29.16051	25121	33.29164	27620
1700	4.56465	1607	4.15611	2315	29.41172	23822	33.56784	26137
1800	4.58072	1487	4.17926	2153	29.64994	22655	33.82921	24807
1900	4.59559	1388	4.20079	2009	29.87649	21599	34.07728	23608
2000	4.60947	1307	4.22088	1882	30.09248	20639	34.31336	22522
2100	4.62254	1238	4.23970	1768	30.29887	19765	34.53858	21532
2200	4.63492	1179	4.25738	1668	30.49652	18962	34.75390	20630
2300	4.64671	1130	4.27406	1576	30.68614	18223	34.96020	19800
2400	4.65801	1087	4.28982	1495	30.86837	17543	35.15820	19037
2500	4.66888	1051	4.30477	1420	31.04380	16911	35.34857	18332
2600	4.67939	1018	4.31897	1354	31.21291	16326	35.53189	17680
2700	4.68957	990	4.33251	1293	31.37617	15780	35.70869	17073
2800	4.69947	965	4.34544	1238	31.53397	15270	35.87942	16508
2900	4.70912	942	4.35782	1186	31.68667	14794	36.04450	15980
3000	4.71854	1828	4.36968	2238	31.83461	28274	36.20430	30512
3200	4.73682	1764	4.39206	2080	32.11735	26690	36.50942	28770
3400	4.75446	1709	4.41286	1946	32.38425	25279	36.79712	27224
3600	4.77155	1665	4.43232	1829	32.63704	24014	37.06936	25843
3800	4.78820	1626	4.45061	1729	32.87718	22873	37.32779	24602
4000	4.80446	1592	4.46790	1641	33.10591	21839	37.57381	23480
4200	4.82038	1562	4.48431	1563	33.32430	20897	37.80861	22461
4400	4.83600	1535	4.49994	1495	33.53327	20036	38.03322	21530
4600	4.85135	1511	4.51489	1433	33.73363	19246	38.24852	20680
4800	4.86646	1489	4.52922	1379	33.92609	18517	38.45532	19896
5000	4.88135		4.54301		34.11126		38.65428	

Table 2.041. BaD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50143	26	3.48439	286	17.25323	63555	20.73763	63841
60	3.50169	28	3.48725	209	17.88878	53772	21.37604	53980
70	3.50197	34	3.48934	160	18.42650	46605	21.91584	46765
80	3.50231	55	3.49094	129	18.89255	41125	22.38349	41254
90	3.50286	102	3.49223	111	19.30380	36800	22.79603	36911
100	3.50388	183	3.49334	103	19.67180	33300	23.16514	33404
110	3.50571	308	3.49437	106	20.00480	30410	23.49918	30516
120	3.50879	470	3.49543	120	20.30890	27983	23.80434	28102
130	3.51349	665	3.49663	143	20.58873	25918	24.08536	26061
140	3.52014	882	3.49806	175	20.84791	24139	24.34597	24315
150	3.52896	1105	3.49981	216	21.08930	22594	24.58912	22810
160	3.54001	1327	3.50197	262	21.31524	21239	24.81722	21500
170	3.55328	1536	3.50459	312	21.52763	20040	25.03222	20352
180	3.56864	1727	3.50771	365	21.72803	18975	25.23574	19340
190	3.58591	1894	3.51136	420	21.91778	18021	25.42914	18441
200	3.60485	2035	3.51556	473	22.09799	17164	25.61355	17637
210	3.62520	2149	3.52029	525	22.26963	16388	25.78992	16914
220	3.64669	2237	3.52554	575	22.43351	15684	25.95906	16259
230	3.66906	2302	3.53129	622	22.59035	15042	26.12165	15664
240	3.69208	2343	3.53751	665	22.74077	14455	26.27829	15119
250	3.71551	2366	3.54416	705	22.88532	13914	26.42948	14619
260	3.73917	2371	3.55121	740	23.02446	13416	26.57567	14156
270	3.76288	2361	3.55861	771	23.15862	12955	26.71723	13727
280	3.78649	2339	3.56632	800	23.28817	12529	26.85450	13329
290	3.80988	2307	3.57432	824	23.41346	12131	26.98779	12955
300	3.83295	2265	3.58256	844	23.53477	11761	27.11734	12605
310	3.85560	2218	3.59100	862	23.65238	11415	27.24339	12276
320	3.87778	2165	3.59962	876	23.76653	11090	27.36615	11966
330	3.89943	2109	3.60838	887	23.87743	10785	27.48581	11672
340	3.92052	2050	3.61725	896	23.98528	10498	27.60253	11395
350	3.94102	1989	3.62621	902	24.09026	10228	27.71648	11130
360	3.96091	1927	3.63523	906	24.19254	9973	27.82778	10879
370	3.98018	1865	3.64429	909	24.29227	9731	27.93657	10639
380	3.99883	1803	3.65338	909	24.38958	9501	28.04296	10411
390	4.01686	1742	3.66247	908	24.48459	9284	28.14707	10192
400	4.03428	7830	3.67155	4478	24.57743	43505	28.24899	47983
450	4.11258	6514	3.71633	4299	25.01248	39380	28.72882	43678
500	4.17772	5422	3.75932	4057	25.40628	36022	29.16560	40080
550	4.23194	4538	3.79989	3795	25.76650	33228	29.56640	37023
600	4.27732	3829	3.83784	3532	26.09878	30861	29.93663	34392
650	4.31561	3260	3.87316	3280	26.40739	28825	30.28055	32105
700	4.34821	2803	3.90596	3044	26.69564	27053	30.60160	30097
750	4.37624	2433	3.93640	2827	26.96617	25496	30.90257	28323
800	4.40057	2132	3.96467	2628	27.22113	24116	31.18580	26744
850	4.42189	1886	3.99095	2447	27.46229	22882	31.45324	25329
900	4.44075	1683	4.01542	2284	27.69111	21772	31.70653	24056
950	4.45758	1513	4.03826	2135	27.90883	20768	31.94709	22904
1000	4.47271	1373	4.05961	2000	28.11651	19856	32.17613	21856
1050	4.48644	1253	4.07961	1878	28.31507	19022	32.39469	20900
1100	4.49897	1153	4.09839	1768	28.50529	18258	32.60369	20025
1150	4.51050	1067	4.11607	1666	28.68787	17553	32.80394	19219

Table 2. 041. BaD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.52117	1922	4.13273	3063	28.86340	33203	32.99613	36266
1300	4.54039	1701	4.16336	2755	29.19543	30956	33.35879	33712
1400	4.55740	1532	4.19091	2495	29.50499	29001	33.69591	31496
1500	4.57272	1402	4.21586	2275	29.79500	27282	34.01087	29557
1600	4.58674	1298	4.23861	2086	30.06782	25760	34.30644	27846
1700	4.59972	1216	4.25947	1925	30.32542	24402	34.58490	26326
1800	4.61188	1150	4.27872	1784	30.56944	23182	34.84816	24967
1900	4.62338	1094	4.29656	1662	30.80126	22081	35.09783	23742
2000	4.63432	1050	4.31318	1554	31.02207	21083	35.33525	22637
2100	4.64482	1011	4.32872	1460	31.23290	20171	35.56162	21631
2200	4.65493	978	4.34332	1376	31.43461	19337	35.77793	20714
2300	4.66471	951	4.35708	1302	31.62798	18572	35.98507	19873
2400	4.67422	927	4.37010	1235	31.81370	17865	36.18380	19100
2500	4.68349	906	4.38245	1175	31.99235	17211	36.37480	18387
2600	4.69255	888	4.39420	1122	32.16446	16605	36.55867	17726
2700	4.70143	872	4.40542	1073	32.33051	16041	36.73593	17114
2800	4.71015	857	4.41615	1028	32.49092	15515	36.90707	16544
2900	4.71872	844	4.42643	989	32.64607	15023	37.07251	16011
3000	4.72716	1655	4.43632	1869	32.79630	28692	37.23262	30562
3200	4.74371	1615	4.45501	1746	33.08322	27061	37.53824	28807
3400	4.75986	1581	4.47247	1641	33.35383	25611	37.82631	27251
3600	4.77567	1553	4.48888	1550	33.60994	24312	38.09882	25863
3800	4.79120	1528	4.50438	1473	33.85306	23142	38.35745	24614
4000	4.80648	1504	4.51911	1404	34.08448	22083	38.60359	23488
4200	4.82152	1484	4.53315	1345	34.30531	21120	38.83847	22464
4400	4.83636	1464	4.54660	1291	34.51651	20239	39.06311	21531
4600	4.85100	1447	4.55951	1245	34.71890	19432	39.27842	20676
4800	4.86547	1430	4.57196	1203	34.91322	18688	39.48518	19891
5000	4.87977		4.58399		35.10010		39.68409	

Table 2.042. BaT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50140	29	3.48973	197	17.65441	63644	21.14414	63841
60	3.50169	44	3.49170	145	18.29085	53836	21.78255	53982
70	3.50213	93	3.49315	118	18.82921	46652	22.32237	46769
80	3.50306	198	3.49433	106	19.29573	41164	22.79006	41271
90	3.50504	377	3.49539	114	19.70737	36833	23.20277	36947
100	3.50881	626	3.49653	138	20.07570	33332	23.57224	33469
110	3.51507	927	3.49791	179	20.40902	30443	23.90693	30623
120	3.52434	1253	3.49970	236	20.71345	28022	24.21316	28257
130	3.53687	1582	3.50206	303	20.99367	25763	24.49573	26267
140	3.55269	1889	3.50509	379	21.25330	24195	24.75840	24574
150	3.57158	2162	3.50888	458	21.49525	22660	25.00414	23118
160	3.59320	2390	3.51346	538	21.72185	21316	25.23532	21854
170	3.61710	2572	3.51884	617	21.93501	20131	25.45386	20747
180	3.64282	2705	3.52501	691	22.13632	19077	25.66133	19768
190	3.66987	2796	3.53192	759	22.32709	18135	25.85901	18895
200	3.69783	2848	3.53951	822	22.50844	17289	26.04796	18110
210	3.72631	2866	3.54773	876	22.68133	16524	26.22906	17401
220	3.75497	2856	3.55649	926	22.84657	15830	26.40307	16755
230	3.78353	2823	3.56575	966	23.00487	15196	26.57062	16162
240	3.81176	2773	3.57541	1001	23.15683	14615	26.73224	15617
250	3.83949	2707	3.58542	1029	23.30298	14083	26.88841	15112
260	3.86656	2631	3.59571	1053	23.44381	13590	27.03953	14642
270	3.89287	2549	3.60624	1069	23.57971	13134	27.18595	14204
280	3.91836	2461	3.61693	1082	23.71105	12711	27.32799	13793
290	3.94297	2370	3.62775	1091	23.83816	12317	27.46592	13407
300	3.96667	2278	3.63866	1095	23.96133	11949	27.59999	13044
310	3.98945	2186	3.64961	1096	24.08082	11604	27.73043	12701
320	4.01131	2095	3.66057	1095	24.19686	11281	27.85744	12376
330	4.03226	2006	3.67152	1091	24.30967	10977	27.98120	12067
340	4.05232	1919	3.68243	1084	24.41944	10690	28.10187	11775
350	4.07151	1835	3.69327	1076	24.52634	10420	28.21962	11496
360	4.08986	1754	3.70403	1067	24.63054	10163	28.33458	11230
370	4.10740	1675	3.71470	1056	24.73217	9921	28.44688	10976
380	4.12415	1601	3.72526	1043	24.83138	9690	28.55664	10733
390	4.14016	1530	3.73569	1031	24.92828	9471	28.66397	10502
400	4.15546	6691	3.74600	4935	25.02299	44410	28.76899	49345
450	4.22237	5367	3.79535	4548	25.46709	40227	29.26244	44775
500	4.27604	4355	3.84083	4161	25.86936	36805	29.71019	40967
550	4.31959	3581	3.88244	3797	26.23741	33947	30.11986	37743
600	4.35540	2986	3.92041	3464	26.57688	31519	30.49729	34984
650	4.38526	2525	3.95505	3166	26.89207	29428	30.84713	32593
700	4.41051	2163	3.98671	2899	27.18635	27605	31.17306	30505
750	4.43214	1877	4.01570	2663	27.46240	26003	31.47811	28665
800	4.45091	1648	4.04233	2453	27.72243	24581	31.76476	27034
850	4.46739	1462	4.06686	2266	27.96824	23311	32.03510	25578
900	4.48201	1312	4.08952	2101	28.20135	22168	32.29088	24268
950	4.49513	1188	4.11053	1953	28.42303	21134	32.53356	23088
1000	4.50701	1084	4.13006	1821	28.63437	20196	32.76444	22016
1050	4.51785	999	4.14827	1703	28.83633	19337	32.98460	21041
1100	4.52784	925	4.16530	1597	29.02970	18551	33.19501	20148
1150	4.53709	864	4.18127	1501	29.21521	17828	33.39649	19328

Table 2. 042. BaT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.54573	1578	4.19628	2750	29.39349	33698	33.58977	36449
1300	4.56151	1420	4.22378	2464	29.73047	31394	33.95426	33857
1400	4.57571	1301	4.24842	2225	30.04441	29388	34.29283	31614
1500	4.58872	1210	4.27067	2026	30.33829	27628	34.60897	29654
1600	4.60082	1136	4.29093	1857	30.61457	26070	34.90551	27927
1700	4.61218	1079	4.30950	1712	30.87527	24682	35.18478	26393
1800	4.62297	1032	4.32662	1587	31.12209	23436	35.44871	25023
1900	4.63329	993	4.34249	1479	31.35645	22312	35.69894	23791
2000	4.64322	960	4.35728	1384	31.57957	21293	35.93685	22678
2100	4.65282	934	4.37112	1302	31.79250	20365	36.16363	21666
2200	4.66216	911	4.38414	1229	31.99615	19515	36.38029	20745
2300	4.67127	890	4.39643	1164	32.19130	18736	36.58774	19899
2400	4.68017	874	4.40807	1106	32.37866	18017	36.78673	19124
2500	4.68891	858	4.41913	1054	32.55883	17353	36.97797	18407
2600	4.69749	845	4.42967	1007	32.73236	16737	37.16204	17744
2700	4.70594	832	4.43974	966	32.89973	16164	37.33948	17129
2800	4.71426	822	4.44940	927	33.06137	15630	37.51077	16558
2900	4.72248	812	4.45867	893	33.21767	15131	37.67635	16023
3000	4.73060	1598	4.46760	1694	33.36898	28888	37.83658	30582
3200	4.74658	1568	4.48454	1588	33.65786	27235	38.14240	28823
3400	4.76226	1541	4.50042	1497	33.93021	25767	38.43063	27265
3600	4.77767	1518	4.51539	1421	34.18788	24451	38.70328	25872
3800	4.79285	1496	4.52960	1354	34.43239	23269	38.96200	24622
4000	4.80781	1478	4.54314	1295	34.66508	22198	39.20822	23493
4200	4.82259	1459	4.55609	1245	34.88706	21223	39.44315	22469
4400	4.83718	1444	4.56854	1199	35.09929	20335	39.66784	21534
4600	4.85162	1427	4.58053	1160	35.30264	19519	39.88318	20678
4800	4.86589	1413	4.59213	1123	35.49783	18769	40.08996	19893
5000	4.88002		4.60336		35.68552		40.28889	

Table 2.043. CuH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50094	45	3.42524	1266	13.93521	62569	17.36046	63834
60	3.50139	32	3.43790	909	14.56090	53067	17.99880	53977
70	3.50171	26	3.44699	686	15.09157	46075	18.53857	46760
80	3.50197	25	3.45385	536	15.55232	40713	19.00617	41249
90	3.50222	23	3.45921	431	15.95945	36469	19.41866	36901
100	3.50245	23	3.46352	355	16.32414	33028	19.78767	33383
110	3.50268	23	3.46707	298	16.65442	30181	20.12150	30478
120	3.50291	23	3.47005	254	16.95623	27785	20.42628	28039
130	3.50314	23	3.47259	219	17.23408	25743	20.70667	25962
140	3.50337	23	3.47478	191	17.49151	23980	20.96629	24172
150	3.50360	24	3.47669	169	17.73131	22444	21.20801	22612
160	3.50384	25	3.47838	150	17.95575	21092	21.43413	21243
170	3.50409	27	3.47988	136	18.16667	19895	21.64656	20030
180	3.50436	30	3.48124	122	18.36562	18825	21.84686	18948
190	3.50466	36	3.48246	112	18.55387	17866	22.03634	17977
200	3.50502	43	3.48358	103	18.73253	16999	22.21611	17102
210	3.50545	53	3.48461	96	18.90252	16212	22.38713	16309
220	3.50598	66	3.48557	90	19.06464	15496	22.55022	15586
230	3.50664	82	3.48647	86	19.21960	14840	22.70608	14926
240	3.50746	102	3.48733	82	19.36800	14238	22.85534	14320
250	3.50848	126	3.48815	81	19.51038	13682	22.99854	13763
260	3.50974	153	3.48896	79	19.64720	13169	23.13617	13248
270	3.51127	183	3.48975	80	19.77889	12693	23.26865	12773
280	3.51310	217	3.49055	82	19.90582	12250	23.39638	12332
290	3.51527	253	3.49137	84	20.02832	11838	23.51970	11921
300	3.51780	291	3.49221	87	20.14670	11452	23.63891	11540
310	3.52071	333	3.49308	91	20.26122	11092	23.75431	11183
320	3.52404	374	3.49399	97	20.37214	10753	23.86614	10849
330	3.52778	418	3.49496	102	20.47967	10435	23.97463	10538
340	3.53196	461	3.49598	110	20.58402	10136	24.08001	10245
350	3.53657	506	3.49708	116	20.68538	9853	24.18246	9970
360	3.54163	549	3.49824	125	20.78391	9586	24.28216	9711
370	3.54712	592	3.49949	133	20.87977	9335	24.37927	9467
380	3.55304	634	3.50082	142	20.97312	9095	24.47394	9237
390	3.55938	675	3.50224	151	21.06407	8869	24.56631	9020
400	3.56613	3928	3.50375	903	21.15276	41318	24.65651	42222
450	3.60541	4661	3.51278	1155	21.56594	37068	25.07873	38223
500	3.65202	5120	3.52433	1391	21.93662	33654	25.46096	35045
550	3.70322	5336	3.53824	1596	22.27316	30854	25.81141	32450
600	3.75658	5358	3.55420	1763	22.58170	28518	26.13591	30280
650	3.81016	5244	3.57183	1891	22.86688	26538	26.43871	28430
700	3.86260	5040	3.59074	1982	23.13226	24841	26.72301	26822
750	3.91300	4782	3.61056	2041	23.38067	23367	26.99123	25408
800	3.96082	4497	3.63097	2074	23.61434	22075	27.24531	24149
850	4.00579	4204	3.65171	2085	23.83509	20931	27.48680	23017
900	4.04783	3915	3.67256	2080	24.04440	19913	27.71697	21992
950	4.08698	3636	3.69336	2060	24.24353	18997	27.93689	21057
1000	4.12334	3374	3.71396	2030	24.43350	18169	28.14746	20200
1050	4.15708	3129	3.73426	1994	24.61519	17418	28.34946	19412
1100	4.18837	2904	3.75420	1952	24.78937	16732	28.54358	18683
1150	4.21741	2697	3.77372	1906	24.95669	16101	28.73041	18007

Table 2.043. CuH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.24438	4840	3.79278	3664	25.11770	30504	28.91048	34169
1300	4.29278	4210	3.82942	3463	25.42274	28507	29.25217	31970
1400	4.33488	3689	3.86405	3265	25.70781	26772	29.57187	30037
1500	4.37177	3257	3.89670	3073	25.97553	25248	29.87224	28320
1600	4.40434	2901	3.92743	2892	26.22801	23898	30.15544	26790
1700	4.43335	2602	3.95635	2724	26.46699	22691	30.42334	25416
1800	4.45937	2354	3.98359	2567	26.69390	21608	30.67750	24174
1900	4.48291	2145	4.00926	2422	26.90998	20627	30.91924	23050
2000	4.50436	1967	4.03348	2290	27.11625	19735	31.14974	22025
2100	4.52403	1818	4.05638	2168	27.31360	18921	31.36999	21088
2200	4.54221	1688	4.07806	2055	27.50281	18174	31.58087	20229
2300	4.55909	1578	4.09861	1952	27.68455	17485	31.78316	19437
2400	4.57487	1483	4.11813	1857	27.85940	16849	31.97753	18706
2500	4.58970	1400	4.13670	1769	28.02789	16259	32.16459	18029
2600	4.60370	1328	4.15439	1689	28.19048	15711	32.34488	17399
2700	4.61698	1264	4.17128	1615	28.34759	15199	32.51887	16814
2800	4.62962	1208	4.18743	1545	28.49958	14721	32.68701	16267
2900	4.64170	1159	4.20288	1483	28.64679	14274	32.84968	15756
3000	4.65329	2190	4.21771	2791	28.78953	27311	33.00724	30103
3200	4.67519	2050	4.24562	2588	29.06264	25817	33.30827	28405
3400	4.69569	1936	4.27150	2411	29.32081	24485	33.59232	26895
3600	4.71505	1841	4.29561	2256	29.56566	23286	33.86127	25543
3800	4.73346	1764	4.31817	2121	29.79852	22204	34.11670	24324
4000	4.75110	1697	4.33938	2001	30.02056	21221	34.35994	23222
4200	4.76807	1642	4.35939	1895	30.23277	20324	34.59216	22220
4400	4.78449	1592	4.37834	1801	30.43601	19502	34.81436	21303
4600	4.80041	1550	4.39635	1716	30.63103	18748	35.02739	20463
4800	4.81591	1513	4.41351	1640	30.81851	18050	35.23202	19690
5000	4.83104		4.42991		30.99901		35.42892	

Table 2. 044. CuD

$^{\circ}K$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50149	14	3.46200	659	14.59299	63182	18.05500	63841
60	3.50163	17	3.46859	473	15.22481	53506	18.69341	53979
70	3.50180	20	3.47332	358	15.75987	46404	19.23320	46761
80	3.50200	21	3.47690	280	16.22391	40969	19.70081	41249
90	3.50221	22	3.47970	226	16.63360	36675	20.11330	36901
100	3.50243	23	3.48196	187	17.00035	33195	20.48231	33383
110	3.50266	24	3.48383	158	17.33230	30321	20.81614	30478
120	3.50290	28	3.48541	135	17.63551	27903	21.12092	28039
130	3.50318	34	3.48676	119	17.91454	25844	21.40131	25963
140	3.50352	46	3.48795	105	18.17298	24068	21.66094	24173
150	3.50398	64	3.48900	96	18.41366	22521	21.90267	22616
160	3.50462	90	3.48996	88	18.63887	21160	22.12883	21249
170	3.50552	125	3.49084	85	18.85047	19956	22.34132	20041
180	3.50677	169	3.49169	84	19.05003	18881	22.54173	18964
190	3.50846	224	3.49253	85	19.23884	17916	22.73137	18002
200	3.51070	286	3.49338	89	19.41800	17047	22.91139	17135
210	3.51356	355	3.49427	95	19.58847	16257	23.08274	16353
220	3.51711	431	3.49522	105	19.75104	15540	23.24627	15644
230	3.52142	510	3.49627	115	19.90644	14882	23.40271	14997
240	3.52652	594	3.49742	128	20.05526	14280	23.55268	14408
250	3.53246	677	3.49870	142	20.19806	13725	23.69676	13867
260	3.53923	760	3.50012	159	20.33531	13212	23.83543	13372
270	3.54683	841	3.50171	176	20.46743	12738	23.96915	12913
280	3.55524	919	3.50347	194	20.59481	12298	24.09828	12492
290	3.56443	993	3.50541	213	20.71779	11887	24.22320	12101
300	3.57436	1062	3.50754	233	20.83666	11505	24.34421	11737
310	3.58498	1127	3.50987	252	20.95171	11147	24.46158	11400
320	3.59625	1185	3.51239	272	21.06318	10813	24.57558	11084
330	3.60810	1237	3.51511	291	21.17131	10497	24.68642	10789
340	3.62047	1284	3.51802	311	21.27628	10203	24.79431	10514
350	3.63331	1325	3.52113	330	21.37831	9924	24.89945	10253
360	3.64656	1359	3.52443	349	21.47755	9661	25.00198	10010
370	3.66015	1389	3.52792	366	21.57416	9413	25.10208	9779
380	3.67404	1412	3.53158	383	21.66829	9179	25.19987	9562
390	3.68816	1431	3.53541	400	21.76008	8956	25.29549	9356
400	3.70247	7284	3.53941	2215	21.84964	41812	25.38905	44028
450	3.77531	7185	3.56156	2499	22.26776	37653	25.82933	40151
500	3.84716	6806	3.58655	2682	22.64429	34308	26.23084	36991
550	3.91522	6291	3.61337	2782	22.98737	31559	26.60075	34340
600	3.97813	5728	3.64119	2816	23.30296	29256	26.94415	32072
650	4.03541	5171	3.66935	2802	23.59552	27296	27.26487	30099
700	4.08712	4648	3.69737	2756	23.86848	25604	27.56586	28359
750	4.13360	4171	3.72493	2687	24.12452	24126	27.84945	26814
800	4.17531	3744	3.75180	2603	24.36578	22824	28.11759	25427
850	4.21275	3366	3.77783	2512	24.59402	21665	28.37186	24176
900	4.24641	3035	3.80295	2415	24.81067	20626	28.61362	23042
950	4.27676	2743	3.82710	2318	25.01693	19690	28.84404	22008
1000	4.30419	2489	3.85028	2222	25.21383	18840	29.06412	21061
1050	4.32908	2266	3.87250	2127	25.40223	18064	29.27473	20192
1100	4.35174	2071	3.89377	2037	25.58287	17354	29.47665	19391
1150	4.37245	1900	3.91414	1950	25.75641	16700	29.67056	18650

Table 2. 044. CuD (Cont.)

λ	$\frac{C_p}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
1200	4.39145	3365	3.93364	3654	25.92341	31632	29.85706	35286
1300	4.42510	2895	3.97018	3356	26.23973	29547	30.20992	32902
1400	4.45405	2525	4.00374	3088	26.53520	27730	30.53894	30818
1500	4.47930	2232	4.03462	2850	26.81250	26131	30.84712	28982
1600	4.50162	1997	4.06312	2639	27.07381	24713	31.13694	27352
1700	4.52159	1805	4.08951	2452	27.32094	23445	31.41046	25896
1800	4.53964	1650	4.11403	2284	27.55539	22305	31.66942	24590
1900	4.55614	1521	4.13687	2135	27.77844	21275	31.91532	23409
2000	4.57135	1414	4.15822	2001	27.99119	20337	32.14941	22338
2100	4.58549	1323	4.17823	1882	28.19456	19481	32.37279	21363
2200	4.59872	1248	4.19705	1773	28.38937	18696	32.58642	20470
2300	4.61120	1182	4.21478	1677	28.57633	17973	32.79112	19650
2400	4.62302	1127	4.23155	1589	28.75606	17307	32.98762	18895
2500	4.63429	1079	4.24744	1508	28.92913	16688	33.17657	18197
2600	4.64508	1037	4.26252	1437	29.09601	16114	33.35854	17551
2700	4.65545	1000	4.27689	1370	29.25715	15579	33.53405	16948
2800	4.66545	968	4.29059	1309	29.41294	15080	33.70353	16389
2900	4.67513	939	4.30368	1254	29.56374	14611	33.86742	15865
3000	4.68452	1806	4.31622	2359	29.70985	27933	34.02607	30292
3200	4.70258	1725	4.33981	2185	29.98918	26376	34.32899	28561
3400	4.71983	1658	4.36166	2036	30.25294	24989	34.61460	27025
3600	4.73641	1604	4.38202	1908	30.50283	23744	34.88485	25652
3800	4.75245	1556	4.40110	1795	30.74027	22621	35.14137	24417
4000	4.76801	1518	4.41905	1698	30.96648	21602	35.38554	23300
4200	4.78319	1482	4.43603	1612	31.18250	20674	35.61854	22285
4400	4.79801	1453	4.45215	1536	31.38924	19825	35.84139	21361
4600	4.81254	1425	4.46751	1467	31.58749	19044	36.05500	20512
4800	4.82679	1402	4.48218	1407	31.77793	18326	36.26012	19732
5000	4.84081		4.49625		31.96119		36.45744	

Table 2.045. CuT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50132	19	3.47446	449	14.99082	63389	18.46528	63839
60	3.50151	21	3.47895	324	15.62471	53654	19.10367	53977
70	3.50172	21	3.48219	245	16.16125	46515	19.64344	46761
80	3.50193	23	3.48464	194	16.62640	41055	20.11105	41248
90	3.50216	25	3.48658	157	17.03695	36743	20.52353	36900
100	3.50241	31	3.48815	131	17.40438	33252	20.89253	33383
110	3.50272	41	3.48946	112	17.73690	30367	21.22636	30479
120	3.50313	63	3.49058	99	18.04057	27944	21.53115	28043
130	3.50376	97	3.49157	90	18.32001	25878	21.81158	25969
140	3.50473	148	3.49247	86	18.57879	24099	22.07127	24185
150	3.50621	213	3.49333	87	18.81978	22548	22.31312	22635
160	3.50834	296	3.49420	92	19.04526	21186	22.53947	21277
170	3.51130	393	3.49512	100	19.25712	19981	22.75224	20081
180	3.51523	501	3.49612	113	19.45693	18905	22.95305	19019
190	3.52024	616	3.49725	130	19.64598	17942	23.14324	18072
200	3.52640	737	3.49855	150	19.82540	17073	23.32396	17222
210	3.53377	859	3.50005	172	19.99613	16286	23.49618	16459
220	3.54236	977	3.50177	197	20.15899	15570	23.66077	15767
230	3.55213	1092	3.50374	224	20.31469	14917	23.81844	15141
240	3.56305	1200	3.50598	252	20.46386	14317	23.96985	14569
250	3.57505	1298	3.50850	281	20.60703	13766	24.11554	14046
260	3.58803	1388	3.51131	310	20.74469	13258	24.25600	13568
270	3.60191	1468	3.51441	338	20.87727	12787	24.39168	13125
280	3.61659	1536	3.51779	367	21.00514	12350	24.52293	12718
290	3.63195	1595	3.52146	395	21.12864	11945	24.65011	12340
300	3.64790	1643	3.52541	421	21.24809	11567	24.77351	11988
310	3.66433	1682	3.52962	447	21.36376	11213	24.89339	11660
320	3.68115	1711	3.53409	472	21.47589	10882	25.00999	11353
330	3.69826	1731	3.53881	494	21.58471	10572	25.12352	11067
340	3.71557	1745	3.54375	516	21.69043	10280	25.23419	10795
350	3.73302	1752	3.54891	536	21.79323	10005	25.34214	10541
360	3.75054	1751	3.55427	554	21.89328	9746	25.44755	10300
370	3.76805	1745	3.55981	571	21.99074	9501	25.55055	10072
380	3.78550	1734	3.56552	586	22.08575	9269	25.65127	9855
390	3.80284	1720	3.57138	600	22.17844	9049	25.74982	9650
400	3.82004	8259	3.57738	3161	22.26893	42316	25.84632	45477
450	3.90263	7522	3.60899	3320	22.69209	38196	26.30109	41515
500	3.97785	6698	3.64219	3362	23.07405	34871	26.71624	38233
550	4.04483	5896	3.67581	3326	23.42276	32127	27.09857	35453
600	4.10379	5164	3.70907	3239	23.74403	29817	27.45310	33057
650	4.15543	4521	3.74146	3122	24.04220	27842	27.78367	30964
700	4.20064	3963	3.77268	2988	24.32062	26132	28.09331	29120
750	4.24027	3488	3.80256	2847	24.58194	24633	28.38451	27479
800	4.27515	3082	3.83103	2705	24.82827	23307	28.65930	26013
850	4.30597	2737	3.85808	2566	25.06134	22126	28.91943	24691
900	4.33334	2444	3.88374	2432	25.28260	21064	29.16634	23496
950	4.35778	2194	3.90806	2304	25.49324	20104	29.40130	22409
1000	4.37972	1979	3.93110	2184	25.69428	19234	29.62539	21418
1050	4.39951	1796	3.95294	2072	25.88662	18437	29.83957	20508
1100	4.41747	1638	3.97366	1965	26.07099	17707	30.04465	19673
1150	4.43385	1500	3.99331	1868	26.24806	17036	30.24138	18903

Table 2.045. CuT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.44885	2661	4.01199	3465	26.41842	32252	30.43041	35718
1300	4.47546	2298	4.04664	3147	26.74094	30106	30.78759	33252
1400	4.49844	2017	4.07811	2871	27.04200	28235	31.12011	31107
1500	4.51861	1797	4.10682	2631	27.32435	26590	31.43118	29221
1600	4.53658	1623	4.13313	2422	27.59025	25131	31.72339	27552
1700	4.55281	1482	4.15735	2238	27.84156	23827	31.99891	26066
1800	4.56763	1369	4.17973	2078	28.07983	22655	32.25957	24733
1900	4.58132	1275	4.20051	1937	28.30638	21595	32.50690	23532
2000	4.59407	1197	4.21988	1810	28.52233	20634	32.74222	22443
2100	4.60604	1133	4.23798	1699	28.72867	19754	32.96665	21454
2200	4.61737	1077	4.25497	1600	28.92621	18950	33.18119	20549
2300	4.62814	1031	4.27097	1509	29.11571	18209	33.38668	19719
2400	4.63845	991	4.28606	1430	29.29780	17526	33.58387	18956
2500	4.64836	956	4.30036	1357	29.47306	16893	33.77343	18250
2600	4.65792	927	4.31393	1291	29.64199	16306	33.95593	17596
2700	4.66719	900	4.32684	1232	29.80505	15758	34.13189	16990
2800	4.67619	876	4.33916	1177	29.96263	15247	34.30179	16425
2900	4.68495	857	4.35093	1128	30.11510	14770	34.46604	15897
3000	4.69352	1659	4.36221	2123	30.26280	28221	34.62501	30345
3200	4.71011	1600	4.38344	1969	30.54501	26635	34.92846	28603
3400	4.72611	1552	4.40313	1837	30.81136	25220	35.21449	27058
3600	4.74163	1510	4.42150	1725	31.06356	23952	35.48507	25677
3800	4.75673	1476	4.43875	1627	31.30308	22810	35.74184	24437
4000	4.77149	1445	4.45502	1542	31.53118	21774	35.98621	23315
4200	4.78594	1419	4.47044	1466	31.74892	20830	36.21936	22297
4400	4.80013	1395	4.48510	1400	31.95722	19969	36.44233	21368
4600	4.81408	1374	4.49910	1341	32.15691	19176	36.65601	20518
4800	4.82782	1355	4.51251	1289	32.34867	18447	36.86119	19736
5000	4.84137		4.52540		32.53314		37.05855	

Table 2. 046. AgH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50199	- 1	3.43962	1039	14.92296	62810	18.36258	63849
60	3.50198	9	3.45001	743	15.55106	53241	19.00107	53984
70	3.50207	15	3.45744	559	16.08347	46205	19.54091	46765
80	3.50222	17	3.46303	436	16.54552	40815	20.00856	41251
90	3.50239	19	3.46739	351	16.95367	36552	20.42107	36902
100	3.50258	21	3.47090	289	17.31919	33095	20.79009	33384
110	3.50279	21	3.47379	242	17.65014	30237	21.12393	30480
120	3.50300	22	3.47621	207	17.95251	27833	21.42873	28040
130	3.50322	23	3.47828	179	18.23084	25783	21.70913	25962
140	3.50345	24	3.48007	157	18.48867	24016	21.96875	24172
150	3.50369	27	3.48164	139	18.72883	22474	22.21047	22613
160	3.50396	30	3.48303	124	18.95357	21120	22.43660	21244
170	3.50426	36	3.48427	112	19.16477	19919	22.64904	20031
180	3.50462	44	3.48539	102	19.36396	18847	22.84935	18949
190	3.50506	57	3.48641	95	19.55243	17885	23.03884	17980
200	3.50563	74	3.48736	88	19.73128	17017	23.21864	17106
210	3.50637	95	3.48824	85	19.90145	16230	23.38970	16314
220	3.50732	120	3.48909	82	20.06375	15511	23.55284	15593
230	3.50852	152	3.48991	80	20.21886	14855	23.70877	14935
240	3.51004	188	3.49071	81	20.36741	14251	23.85812	14333
250	3.51192	227	3.49152	83	20.50992	13696	24.00145	13778
260	3.51419	272	3.49235	86	20.64688	13182	24.13923	13268
270	3.51691	319	3.49321	90	20.77870	12705	24.27191	12796
280	3.52010	370	3.49411	96	20.90575	12263	24.39987	12358
290	3.52380	422	3.49507	102	21.02838	11851	24.52345	11954
300	3.52802	476	3.49609	111	21.14689	11465	24.64299	11576
310	3.53278	530	3.49720	119	21.26154	11105	24.75875	11224
320	3.53808	585	3.49839	129	21.37259	10767	24.87099	10896
330	3.54393	639	3.49968	140	21.48026	10450	24.97995	10589
340	3.55032	692	3.50108	150	21.58476	10151	25.08584	10301
350	3.55724	744	3.50258	162	21.68627	9869	25.18885	10032
360	3.56468	793	3.50420	174	21.78496	9604	25.28917	9777
370	3.57261	840	3.50594	187	21.88100	9352	25.38694	9539
380	3.58101	886	3.50781	199	21.97452	9114	25.48233	9313
390	3.58987	926	3.50980	211	22.06566	8889	25.57546	9101
400	3.59913	5160	3.51191	1249	22.15455	41433	25.66647	42682
450	3.65073	5757	3.52440	1547	22.56888	37211	26.09329	38758
500	3.70830	6021	3.53987	1804	22.94099	33822	26.48087	35625
550	3.76851	6027	3.55791	2007	23.27921	31042	26.83712	33050
600	3.82878	5858	3.57798	2156	23.58963	28724	27.16762	30879
650	3.88736	5581	3.59954	2257	23.87687	26757	27.47641	29015
700	3.94317	5246	3.62211	2317	24.14444	25069	27.76656	27386
750	3.99563	4889	3.64528	2345	24.39513	23601	28.04042	25945
800	4.04452	4530	3.66873	2345	24.63114	22312	28.29987	24658
850	4.08982	4184	3.69218	2327	24.85426	21170	28.54645	23497
900	4.13166	3859	3.71545	2294	25.06596	20150	28.78142	22443
950	4.17025	3556	3.73839	2249	25.26746	19233	29.00585	21482
1000	4.20581	3280	3.76088	2198	25.45979	18403	29.22067	20601
1050	4.23861	3029	3.78286	2141	25.64382	17647	29.42668	19789
1100	4.26890	2801	3.80427	2082	25.82029	16957	29.62457	19039
1150	4.29691	2596	3.82509	2021	25.98986	16322	29.81496	18343

Table 2. 046. AgH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.32287	4654	3.84530	3857	26.15308	30933	29.99839	34789
1300	4.36941	4053	3.88387	3616	26.46241	28917	30.34628	32533
1400	4.40994	3565	3.92003	3387	26.75158	27162	30.67161	30549
1500	4.44559	3167	3.95390	3174	27.02320	25620	30.97710	28795
1600	4.47726	2840	3.98564	2977	27.27940	24253	31.26505	27230
1700	4.50566	2570	4.01541	2796	27.52193	23032	31.53735	25827
1800	4.53136	2347	4.04337	2631	27.75225	21932	31.79562	24564
1900	4.55483	2160	4.06968	2481	27.97157	20939	32.04126	23419
2000	4.57643	2002	4.09449	2343	28.18096	20034	32.27545	22377
2100	4.59645	1869	4.11792	2218	28.38130	19208	32.49922	21427
2200	4.61514	1754	4.14010	2104	28.57338	18451	32.71349	20554
2300	4.63268	1656	4.16114	1999	28.75789	17752	32.91903	19752
2400	4.64924	1572	4.18113	1904	28.93541	17107	33.11655	19011
2500	4.66496	1498	4.20017	1817	29.10648	16509	33.30666	18326
2600	4.67994	1433	4.21834	1736	29.27157	15953	33.48992	17689
2700	4.69427	1377	4.23570	1663	29.43110	15435	33.66681	17097
2800	4.70804	1327	4.25233	1594	29.58545	14950	33.83778	16544
2900	4.72131	1282	4.26827	1532	29.73495	14496	34.00322	16028
3000	4.73413	2450	4.28359	2893	29.87991	27739	34.16350	30633
3200	4.75863	2321	4.31252	2693	30.15730	26226	34.46983	28919
3400	4.78184	2215	4.33945	2520	30.41956	24876	34.75902	27395
3600	4.80399	2127	4.36465	2368	30.66832	23662	35.03297	26031
3800	4.82526	2052	4.38833	2237	30.90494	22567	35.29328	24803
4000	4.84578	1987	4.41070	2119	31.13061	21572	35.54131	23691
4200	4.86565	1932	4.43189	2016	31.34633	20664	35.77822	22680
4400	4.88497	1882	4.45205	1923	31.55297	19833	36.00502	21756
4600	4.90379	1839	4.47128	1841	31.75130	19068	36.22258	20910
4800	4.92218	1798	4.48969	1766	31.94198	18364	36.43168	20130
5000	4.94016		4.50735		32.12562		36.63298	

Table 2. 047. AgD

$\%K$	$\frac{C_p}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
50	3.50140	17	3.46949	533	15.57488	63306	19.04437	63840
60	3.50157	20	3.47482	384	16.20794	53595	19.68277	53979
70	3.50177	22	3.47866	290	16.74389	46471	20.22256	46761
80	3.50199	22	3.48156	228	17.20860	41021	20.69017	41249
90	3.50221	24	3.48384	185	17.61881	36716	21.10266	36900
100	3.50245	25	3.48569	154	17.98597	33229	21.47166	33383
110	3.50270	30	3.48723	130	18.31826	30349	21.80549	30479
120	3.50300	40	3.48853	113	18.62175	27928	22.11028	28041
130	3.50340	57	3.48966	100	18.90103	25864	22.39069	25965
140	3.50397	84	3.49066	91	19.15967	24087	22.65034	24177
150	3.50481	122	3.49157	86	19.40054	22537	22.89211	22623
160	3.50603	173	3.49243	85	19.62591	21175	23.11834	21261
170	3.50776	237	3.49328	87	19.83766	19969	23.33095	20056
180	3.51013	313	3.49415	92	20.03735	18895	23.53151	18986
190	3.51326	399	3.49507	100	20.22630	17930	23.72137	18031
200	3.51725	492	3.49607	113	20.40560	17060	23.90168	17172
210	3.52217	590	3.49720	126	20.57620	16272	24.07340	16398
220	3.52807	693	3.49846	144	20.73892	15554	24.23738	15698
230	3.53500	795	3.49990	162	20.89446	14899	24.39436	15061
240	3.54295	896	3.50152	183	21.04345	14297	24.54497	14481
250	3.55191	992	3.50335	206	21.18642	13745	24.68978	13950
260	3.56183	1085	3.50541	229	21.32387	13233	24.82928	13463
270	3.57268	1170	3.50770	252	21.45620	12762	24.96391	13014
280	3.58438	1249	3.51022	277	21.58382	12322	25.09405	12599
290	3.59687	1319	3.51299	302	21.70704	11915	25.22004	12216
300	3.61006	1383	3.51601	325	21.82619	11534	25.34220	11860
310	3.62389	1437	3.51926	350	21.94153	11179	25.46080	11528
320	3.63826	1483	3.52276	372	22.05332	10846	25.57608	11218
330	3.65309	1523	3.52648	395	22.16178	10533	25.68826	10928
340	3.66832	1554	3.53043	416	22.26711	10240	25.79754	10656
350	3.68386	1579	3.53459	436	22.36951	9963	25.90410	10400
360	3.69965	1597	3.53895	456	22.46914	9703	26.00810	10158
370	3.71562	1610	3.54351	474	22.56617	9456	26.10968	9931
380	3.73172	1615	3.54825	491	22.66073	9223	26.20899	9714
390	3.74787	1617	3.55316	507	22.75296	9002	26.30613	9509
400	3.76404	7969	3.55823	2733	22.84298	42065	26.40122	44797
450	3.84373	7519	3.58556	2962	23.26363	37929	26.84919	40892
500	3.91892	6881	3.61518	3079	23.64292	34601	27.25811	37680
550	3.98773	6191	3.64597	3111	23.98893	31857	27.63491	34968
600	4.04964	5517	3.67708	3082	24.30750	29555	27.98459	32636
650	4.10481	4898	3.70790	3014	24.60305	27589	28.31095	30603
700	4.15379	4345	3.73804	2919	24.87894	25890	28.61698	28810
750	4.19724	3858	3.76723	2811	25.13784	24404	28.90508	27214
800	4.23582	3436	3.79534	2694	25.38188	23090	29.17722	25784
850	4.27018	3071	3.82228	2575	25.61278	21921	29.43506	24497
900	4.30089	2755	3.84803	2457	25.83199	20872	29.68003	23328
950	4.32844	2483	3.87260	2342	26.04071	19924	29.91331	22267
1000	4.35327	2248	3.89602	2232	26.23995	19063	30.13598	21295
1050	4.37575	2045	3.91834	2127	26.43058	18277	30.34893	20404
1100	4.39620	1868	3.93961	2026	26.61335	17558	30.55297	19583
1150	4.41488	1715	3.95987	1932	26.78893	16894	30.74880	18827

Table 2. 047. AgD (Cont.)

$^{\circ}K$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.43203	3045	3.97919	3604	26.95787	31995	30.93707	35598
1300	4.46248	2631	4.01523	3290	27.27782	29878	31.29305	33169
1400	4.48879	2308	4.04813	3017	27.57660	28034	31.62474	31050
1500	4.51187	2055	4.07830	2775	27.85694	26411	31.93524	29186
1600	4.53242	1852	4.10605	2563	28.12105	24970	32.22710	27534
1700	4.55094	1699	4.13168	2377	28.37075	23684	32.50244	26061
1800	4.56783	1555	4.15545	2212	28.60759	22528	32.76305	24739
1900	4.58338	1446	4.17757	2066	28.83287	21481	33.01044	23547
2000	4.59784	1354	4.19823	1935	29.04768	20531	33.24591	22466
2100	4.61138	1278	4.21758	1819	29.25299	19662	33.47057	21482
2200	4.62416	1213	4.23577	1716	29.44961	18867	33.68539	20582
2300	4.63629	1158	4.25293	1621	29.63828	18135	33.89121	19757
2400	4.64787	1110	4.26914	1538	29.81963	17459	34.08878	18996
2500	4.65897	1069	4.28452	1460	29.99422	16833	34.27874	18294
2600	4.66966	1034	4.29912	1392	30.16255	16251	34.46168	17643
2700	4.68000	1002	4.31304	1329	30.32506	15710	34.63811	17038
2800	4.69002	974	4.32633	1271	30.48216	15204	34.80849	16475
2900	4.69976	950	4.33904	1218	30.63420	14731	34.97324	15949
3000	4.70926	1837	4.35122	2295	30.78151	28156	35.13273	30452
3200	4.72763	1766	4.37417	2132	31.06307	26583	35.43725	28715
3400	4.74529	1707	4.39549	1991	31.32890	25181	35.72440	27171
3600	4.76236	1659	4.41540	1870	31.58071	23924	35.99611	25794
3800	4.77895	1617	4.43410	1765	31.81995	22789	36.25405	24554
4000	4.79512	1580	4.45175	1673	32.04784	21761	36.49959	23434
4200	4.81092	1549	4.46848	1591	32.26545	20824	36.73393	22416
4400	4.82641	1521	4.48439	1521	32.47369	19968	36.95809	21488
4600	4.84162	1495	4.49960	1456	32.67337	19181	37.17297	20638
4800	4.85657	1472	4.51416	1399	32.86518	18456	37.37935	19855
5000	4.87129		4.52815		33.04974		37.57790	

Table 2.048. AgT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50128	22	3.47973	361	15.97510	63477	19.45483	63838
60	3.50150	22	3.48334	261	16.60987	53716	20.09321	53977
70	3.50172	23	3.48595	198	17.14703	46562	20.63298	46761
80	3.50195	26	3.48793	157	17.61265	41091	21.10059	41248
90	3.50221	32	3.48950	129	18.02356	36773	21.51307	36901
100	3.50253	47	3.49079	109	18.39129	33276	21.88208	33385
110	3.50300	76	3.49188	95	18.72405	30388	22.21593	30483
120	3.50376	124	3.49283	89	19.02793	27961	22.52076	28050
130	3.50500	194	3.49372	87	19.30754	25894	22.80126	25981
140	3.50694	288	3.49459	91	19.56648	24113	23.06107	24205
150	3.50982	399	3.49550	101	19.80761	22563	23.30312	22664
160	3.51381	530	3.49651	117	20.03324	21201	23.52976	21318
170	3.51911	671	3.49768	137	20.24525	19996	23.74294	20133
180	3.52582	819	3.49905	162	20.44521	18923	23.94427	19084
190	3.53401	969	3.50067	190	20.63444	17960	24.13511	18151
200	3.54370	1114	3.50257	222	20.81404	17095	24.31662	17316
210	3.55484	1253	3.50479	256	20.98499	16310	24.48978	16566
220	3.56737	1381	3.50735	290	21.14809	15597	24.65544	15888
230	3.58118	1498	3.51025	326	21.30406	14946	24.81432	15272
240	3.59616	1599	3.51351	363	21.45352	14350	24.96704	14713
250	3.61215	1688	3.51714	397	21.59702	13802	25.11417	14199
260	3.62903	1762	3.52111	432	21.73504	13297	25.25616	13729
270	3.64665	1822	3.52543	466	21.86801	12830	25.39345	13295
280	3.66487	1868	3.53009	497	21.99631	12396	25.52640	12893
290	3.68355	1903	3.53506	526	22.12027	11993	25.65533	12520
300	3.70258	1926	3.54032	555	22.24020	11618	25.78053	12172
310	3.72184	1939	3.54587	580	22.35638	11266	25.90225	11847
320	3.74123	1942	3.55167	604	22.46904	10939	26.02072	11542
330	3.76065	1938	3.55771	625	22.57843	10630	26.13614	11255
340	3.78003	1926	3.56396	645	22.68473	10340	26.24869	10986
350	3.79929	1908	3.57041	662	22.78813	10068	26.35855	10729
360	3.81837	1886	3.57703	678	22.88881	9809	26.46584	10488
370	3.83723	1859	3.58381	692	22.98690	9567	26.57072	10258
380	3.85582	1828	3.59073	703	23.08257	9336	26.67330	10039
390	3.87410	1794 *	3.59776	713	23.17593	9118	26.77369	9832
400	3.89204	8404	3.60489	3667	23.26711	42670	26.87201	46336
450	3.97608	7392	3.64156	3723	23.69381	38560	27.33537	42284
500	4.05000	6413	3.67879	3673	24.07941	35236	27.75821	38909
550	4.11413	5534	3.71552	3558	24.43177	32483	28.14730	36040
600	4.16947	4776	3.75110	3407	24.75660	30160	28.50770	33567
650	4.21723	4134	3.78517	3237	25.05820	28171	28.84337	31408
700	4.25857	3596	3.81754	3063	25.33991	26444	29.15745	29507
750	4.29453	3145	3.84817	2890	25.60435	24928	29.45252	27819
800	4.32598	2769	3.87707	2724	25.85363	23588	29.73071	26311
850	4.35367	2454	3.90431	2566	26.08951	22389	29.99382	24955
900	4.37821	2189	3.92997	2417	26.31340	21314	30.24337	23732
950	4.40010	1966	3.95414	2280	26.52654	20341	30.48069	22620
1000	4.41976	1775	3.97694	2152	26.72995	19456	30.70689	21608
1050	4.43751	1615	3.99846	2033	26.92451	18648	30.92297	20681
1100	4.45366	1476	4.01879	1923	27.11099	17907	31.12978	19831
1150	4.46842	1358	4.03802	1822	27.29006	17225	31.32809	19046

Table 2. 048. AgT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.48200	2421	4.05624	3371	27.46231	32602	31.51855	35973
1300	4.50621	2109	4.08995	3050	27.78833	30424	31.87828	33474
1400	4.52730	1869	4.12045	2776	28.09257	28524	32.21302	31300
1500	4.54599	1683	4.14821	2539	28.37781	26854	32.52602	29394
1600	4.56282	1536	4.17360	2336	28.64635	25373	32.81996	27709
1700	4.57818	1416	4.19696	2157	28.90008	24052	33.09705	26208
1800	4.59234	1321	4.21853	2003	29.14060	22862	33.35913	24866
1900	4.60555	1241	4.23856	1866	29.36922	21789	33.60779	23655
2000	4.61796	1176	4.25722	1746	29.58711	20814	33.84434	22560
2100	4.62972	1121	4.27468	1640	29.79525	19924	34.06994	21563
2200	4.64093	1075	4.29108	1544	29.99449	19109	34.28557	20654
2300	4.65168	1035	4.30652	1460	30.18558	18360	34.49211	19819
2400	4.66203	1001	4.32112	1384	30.36918	17668	34.69030	19052
2500	4.67204	972	4.33496	1315	30.54586	17028	34.88082	18343
2600	4.68176	946	4.34811	1253	30.71614	16433	35.06425	17687
2700	4.69122	923	4.36064	1198	30.88047	15881	35.24112	17078
2800	4.70045	903	4.37262	1146	31.03928	15364	35.41190	16510
2900	4.70948	885	4.38408	1099	31.19292	14881	35.57700	15981
3000	4.71833	1724	4.39507	2075	31.34173	28432	35.73681	30507
3200	4.73557	1671	4.41582	1930	31.62605	26830	36.04188	28759
3400	4.75228	1627	4.43512	1807	31.89435	25402	36.32947	27210
3600	4.76855	1591	4.45319	1702	32.14837	24123	36.60157	25825
3800	4.78446	1557	4.47021	1610	32.38960	22971	36.85982	24581
4000	4.80003	1530	4.48631	1531	32.61931	21926	37.10563	23456
4200	4.81533	1504	4.50162	1460	32.83857	20975	37.34019	22436
4400	4.83037	1481	4.51622	1398	33.04832	20107	37.56455	21505
4600	4.84518	1461	4.53020	1343	33.24939	19309	37.77960	20652
4800	4.85979	1441	4.54363	1294	33.44248	18574	37.98612	19867
5000	4.87420		4.55657		33.62822		38.18479	

Table 2. 049. AuH

$\%K$	$\frac{C_p}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
50	3.50180	- 18	3.43097	1179	15.70245	62665	19.13343	63844
60	3.50162	- 4	3.44276	841	16.32910	53137	19.77187	53977
70	3.50158	3	3.45117	630	16.86047	46127	20.31164	46757
80	3.50161	7	3.45747	491	17.32174	40752	20.77921	41244
90	3.50168	9	3.46238	393	17.72926	36501	21.19165	36894
100	3.50177	10	3.46631	323	18.09427	33054	21.56059	33376
110	3.50187	12	3.46954	270	18.42481	30200	21.89435	30471
120	3.50199	13	3.47224	229	18.72681	27802	22.19906	28031
130	3.50212	13	3.47453	198	19.00483	25757	22.47937	25954
140	3.50225	14	3.47651	172	19.26240	23991	22.73891	24164
150	3.50239	14	3.47823	151	19.50231	22453	22.98055	22604
160	3.50253	14	3.47974	135	19.72684	21100	23.20659	21234
170	3.50267	14	3.48109	120	19.93784	19901	23.41893	20322
180	3.50281	16	3.48229	108	20.13685	18831	23.61915	18939
190	3.50297	16	3.48337	99	20.32516	17870	23.80854	17968
200	3.50313	17	3.48436	90	20.50386	17002	23.98822	17092
210	3.50330	20	3.48526	82	20.67388	16216	24.15914	16298
220	3.50350	22	3.48608	76	20.83604	15498	24.32212	15574
230	3.50372	27	3.48684	71	20.99102	14841	24.47786	14913
240	3.50399	32	3.48755	66	21.13943	14238	24.62699	14304
250	3.50431	39	3.48821	63	21.28181	13683	24.77003	13745
260	3.50470	49	3.48884	60	21.41864	13168	24.90748	13228
270	3.50519	59	3.48944	57	21.55032	12691	25.03976	12748
280	3.50578	72	3.49001	56	21.67723	12248	25.16724	12304
290	3.50650	87	3.49057	54	21.79971	11834	25.29028	11889
300	3.50737	104	3.49111	54	21.91805	11449	25.40917	11502
310	3.50841	124	3.49165	54	22.03254	11086	25.52419	11141
320	3.50965	145	3.49219	56	22.14340	10747	25.63560	10802
330	3.51110	168	3.49275	56	22.25087	10428	25.74362	10484
340	3.51278	193	3.49331	58	22.35515	10127	25.84846	10185
350	3.51471	220	3.49389	61	22.45642	9843	25.95031	9905
360	3.51691	247	3.49450	64	22.55485	9576	26.04936	9639
370	3.51938	276	3.49514	67	22.65061	9321	26.14575	9389
380	3.52214	306	3.49581	72	22.74382	9082	26.23964	9153
390	3.52520	336	3.49653	75	22.83464	8853	26.33117	8929
400	3.52856	2144	3.49728	460	22.92317	41218	26.42046	41677
450	3.55000	2883	3.50188	620	23.33535	36926	26.83723	37546
500	3.57883	3508	3.50808	798	23.70461	33472	27.21269	34270
550	3.61391	3976	3.51606	978	24.03933	30634	27.55539	31613
600	3.65367	4282	3.52584	1147	24.34567	28266	27.87152	29413
650	3.69649	4444	3.53731	1295	24.62833	26261	28.16565	27556
700	3.74093	4485	3.55026	1421	24.89094	24542	28.44121	25962
750	3.78578	4436	3.56447	1522	25.13636	23053	28.70083	24575
800	3.83014	4321	3.57969	1601	25.36689	21749	28.94658	23351
850	3.87335	4162	3.59570	1659	25.58438	20600	29.18009	22258
900	3.91497	3976	3.61229	1699	25.79038	19576	29.40267	21275
950	3.95473	3774	3.62928	1722	25.98614	18659	29.61542	20382
1000	3.99247	3567	3.64650	1733	26.17273	17833	29.81924	19566
1050	4.02814	3360	3.66383	1733	26.35106	17085	30.01490	18817
1100	4.06174	3159	3.68116	1724	26.52191	16401	30.20307	18126
1150	4.09333	2966	3.69840	1708	26.68592	15777	30.38433	17484

Table 2. 049. AuH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.12299	5393	3.71548	3347	26.84369	29872	30.55917	33220
1300	4.17692	4748	3.74895	3230	27.14241	27902	30.89137	31131
1400	4.22440	4189	3.78125	3097	27.42143	26194	31.20268	29292
1500	4.26629	3711	3.81222	2956	27.68337	24699	31.49560	27654
1600	4.30340	3303	3.84178	2814	27.93036	23376	31.77214	26191
1700	4.33643	2956	3.86992	2676	28.16412	22196	32.03405	24871
1800	4.36599	2659	3.89668	2541	28.38608	21137	32.28276	23678
1900	4.39258	2406	3.92209	2414	28.59745	20180	32.51954	22594
2000	4.41664	2190	3.94623	2293	28.79925	19309	32.74548	21602
2100	4.43854	2004	3.96916	2179	28.99234	18516	32.96150	20695
2200	4.45858	1843	3.99095	2074	29.17750	17786	33.16845	19861
2300	4.47701	1704	4.01169	1975	29.35536	17116	33.36706	19090
2400	4.49405	1583	4.03144	1882	29.52652	16495	33.55796	18378
2500	4.50988	1478	4.05026	1797	29.69147	15921	33.74174	17717
2600	4.52466	1385	4.06823	1716	29.85068	15386	33.91891	17103
2700	4.53851	1304	4.08539	1642	30.00454	14888	34.08994	16529
2800	4.55155	1233	4.10181	1572	30.15342	14421	34.25523	15994
2900	4.56388	1169	4.11753	1508	30.29763	13985	34.41517	15492
3000	4.57557	2175	4.13261	2837	30.43748	26763	34.57009	29601
3200	4.59732	1995	4.16098	2626	30.70511	25306	34.86610	27931
3400	4.61727	1849	4.18724	2441	30.95817	24003	35.14541	26445
3600	4.63576	1729	4.21165	2279	31.19820	22833	35.40986	25111
3800	4.65305	1631	4.23444	2134	31.42653	21775	35.66097	23909
4000	4.66936	1549	4.25578	2006	31.64428	20813	35.90006	22820
4200	4.68485	1479	4.27584	1893	31.85241	19935	36.12826	21828
4400	4.69964	1419	4.29477	1792	32.05176	19131	36.34654	20922
4600	4.71383	1369	4.31269	1700	32.24307	18391	36.55576	20091
4800	4.72752	1325	4.32969	1618	32.42698	17708	36.75667	19326
5000	4.74077		4.34587		32.60406		36.94993	

Table 2. 050. AuD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50101	7	3.46557	591	16.35863	63241	19.82421	63832
60	3.50108	11	3.47148	424	16.99104	53546	20.46253	53970
70	3.50119	12	3.47572	319	17.52650	46434	21.00223	46753
80	3.50131	13	3.47891	250	17.99084	40991	21.46976	41240
90	3.50144	14	3.48141	201	18.40075	36691	21.88216	36892
100	3.50158	14	3.48342	166	18.76766	33208	22.25108	33374
110	3.50172	15	3.48508	139	19.09974	30331	22.58482	30470
120	3.50187	15	3.48647	119	19.40305	27911	22.88952	28031
130	3.50202	16	3.48766	103	19.68216	25850	23.16983	25953
140	3.50218	18	3.48869	90	19.94066	24073	23.42936	24163
150	3.50236	22	3.48959	81	20.18139	22524	23.67099	22605
160	3.50258	28	3.49040	72	20.40663	21163	23.89704	21235
170	3.50286	39	3.49112	67	20.61826	19956	24.10939	20023
180	3.50325	52	3.49179	61	20.81782	18881	24.30962	18942
190	3.50377	71	3.49240	59	21.00663	17915	24.49904	17974
200	3.50448	95	3.49299	57	21.18578	17044	24.67878	17100
210	3.50543	126	3.49356	56	21.35622	16254	24.84978	16310
220	3.50669	162	3.49412	58	21.51876	15533	25.01288	15592
230	3.50831	203	3.49470	61	21.67409	14874	25.16880	14935
240	3.51034	249	3.49531	65	21.82283	14270	25.31815	14335
250	3.51283	300	3.49596	71	21.96553	13713	25.46150	13783
260	3.51583	353	3.49667	77	22.10266	13198	25.59933	13276
270	3.51936	411	3.49744	85	22.23464	12721	25.73209	12806
280	3.52347	468	3.49829	95	22.36185	12278	25.86015	12372
290	3.52815	529	3.49924	105	22.48463	11864	25.98387	11970
300	3.53344	587	3.50029	116	22.60327	11480	26.10357	11595
310	3.53931	647	3.50145	129	22.71807	11118	26.21952	11247
320	3.54578	705	3.50274	141	22.82925	10781	26.33199	10922
330	3.55283	761	3.50415	154	22.93706	10463	26.44121	10617
340	3.56044	814	3.50569	168	23.04169	10165	26.54738	10333
350	3.56858	866	3.50737	182	23.14334	9883	26.65071	10065
360	3.57724	913	3.50919	196	23.24217	9617	26.75136	9814
370	3.58637	958	3.51115	210	23.33834	9367	26.84950	9576
380	3.59595	998	3.51325	225	23.43201	9128	26.94526	9354
390	3.60593	1037	3.51550	239	23.52329	8904	27.03880	9142
400	3.61630	5619	3.51789	1400	23.61233	41512	27.13022	42913
450	3.67249	6046	3.53189	1706	24.02745	37298	27.55935	39004
500	3.73295	6132	3.54895	1952	24.40043	33915	27.94939	35867
550	3.79427	5984	3.56847	2133	24.73958	31140	28.30806	33273
600	3.85411	5691	3.58980	2254	25.05098	28823	28.64079	31076
650	3.91102	5320	3.61234	2326	25.33921	26855	28.95155	29181
700	3.96422	4918	3.63560	2357	25.60776	25163	29.24336	27520
750	4.01340	4515	3.65917	2357	25.85939	23691	29.51856	26048
800	4.05855	4128	3.68274	2334	26.09630	22397	29.77904	24731
850	4.09983	3765	3.70608	2293	26.32027	21248	30.02635	23542
900	4.13748	3432	3.72901	2242	26.53275	20222	30.26177	22464
950	4.17180	3129	3.75143	2181	26.73497	19298	30.48641	21479
1000	4.20309	2857	3.77324	2116	26.92795	18462	30.70120	20577
1050	4.23166	2612	3.79440	2048	27.11257	17699	30.90697	19747
1100	4.25778	2394	3.81488	1978	27.28956	17002	31.10444	18980
1150	4.28172	2197	3.83466	1910	27.45958	16360	31.29424	18270

Table 2.050. AuD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.30369	3890	3.85376	3614	27.62318	30991	31.47694	34606
1300	4.34259	3330	3.88990	3356	27.93309	28952	31.82300	32307
1400	4.37589	2881	3.92346	3114	28.22261	27177	32.14607	30291
1500	4.40470	2519	3.95460	2894	28.49438	25616	32.44898	28510
1600	4.42989	2224	3.98354	2692	28.75054	24231	32.73408	26924
1700	4.45213	1983	4.01046	2510	28.99285	22995	33.00332	25505
1800	4.47196	1785	4.03556	2344	29.22280	21883	33.25837	24227
1900	4.48981	1620	4.05900	2196	29.44163	20877	33.50064	23072
2000	4.50601	1482	4.08096	2059	29.65040	19961	33.73136	22021
2100	4.52083	1366	4.10155	1938	29.85001	19126	33.95157	21063
2200	4.53449	1267	4.12093	1826	30.04127	18359	34.16220	20185
2300	4.54716	1183	4.13919	1724	30.22486	17653	34.36405	19377
2400	4.55899	1111	4.15643	1633	30.40139	17000	34.55782	18634
2500	4.57010	1048	4.17276	1549	30.57139	16397	34.74416	17945
2600	4.58058	995	4.18825	1471	30.73536	15834	34.92361	17306
2700	4.59053	947	4.20296	1402	30.89370	15311	35.09667	16712
2800	4.60000	906	4.21698	1336	31.04681	14821	35.26379	16158
2900	4.60906	869	4.23034	1277	31.19502	14363	35.42537	15640
3000	4.61775	1646	4.24311	2394	31.33865	27462	35.58177	29855
3200	4.63421	1544	4.26705	2205	31.61327	25936	35.88032	28142
3400	4.64965	1461	4.28910	2044	31.87263	24575	36.16174	26618
3600	4.66426	1393	4.30954	1904	32.11838	23352	36.42792	25256
3800	4.67819	1338	4.32858	1782	32.35190	22248	36.68048	24031
4000	4.69157	1291	4.34640	1674	32.57438	21247	36.92079	22921
4200	4.70448	1252	4.36314	1580	32.78685	20335	37.15000	21915
4400	4.71700	1218	4.37894	1497	32.99020	19498	37.36915	20994
4600	4.72918	1188	4.39391	1422	33.18518	18731	37.57909	20153
4800	4.74106	1162	4.40813	1355	33.37249	18022	37.78062	19378
5000	4.75268		4.42168		33.55271		37.97440	

Table 2.051. AuT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50087	12	3.47703	398	16.80314	63432	20.28018	63830
60	3.50099	13	3.48101	287	17.43746	53682	20.91848	53969
70	3.50112	14	3.48388	216	17.97428	46536	21.45817	46751
80	3.50126	14	3.48604	170	18.43964	41070	21.92568	41240
90	3.50140	15	3.48774	137	18.85034	36754	22.33808	36892
100	3.50155	15	3.48911	114	19.21788	33260	22.70700	33374
110	3.50170	18	3.49025	96	19.55048	30374	23.04074	30470
120	3.50188	22	3.49121	83	19.85422	27948	23.34544	28030
130	3.50210	30	3.49204	73	20.13370	25881	23.62574	25955
140	3.50240	45	3.49277	65	20.39251	24100	23.88529	24165
150	3.50285	67	3.49342	61	20.63351	22548	24.12694	22609
160	3.50352	99	3.49403	59	20.85899	21185	24.35303	21243
170	3.50451	140	3.49462	59	21.07084	19976	24.56546	20035
180	3.50591	191	3.49521	61	21.27060	18899	24.76581	18960
190	3.50782	253	3.49582	66	21.45959	17933	24.95541	17999
200	3.51035	323	3.49648	73	21.63892	17061	25.13540	17135
210	3.51358	399	3.49721	83	21.80953	16271	25.30675	16354
220	3.51757	482	3.49804	95	21.97224	15552	25.47029	15647
230	3.52239	568	3.49899	109	22.12776	14893	25.62676	15002
240	3.52807	655	3.50008	125	22.27669	14291	25.77678	14416
250	3.53462	743	3.50133	142	22.41960	13735	25.92094	13877
260	3.54205	828	3.50275	161	22.55695	13223	26.05971	13383
270	3.55033	911	3.50436	180	22.68918	12747	26.19354	12928
280	3.55944	990	3.50616	201	22.81665	12307	26.32282	12508
290	3.56934	1064	3.50817	221	22.93972	11897	26.44790	12118
300	3.57998	1131	3.51038	243	23.05869	11515	26.56908	11757
310	3.59129	1194	3.51281	263	23.17384	11157	26.68665	11421
320	3.60323	1249	3.51544	285	23.28541	10822	26.80086	11106
330	3.61572	1299	3.51829	306	23.39363	10507	26.91192	10813
340	3.62871	1341	3.52135	326	23.49870	10212	27.02005	10538
350	3.64212	1378	3.52461	345	23.60082	9934	27.12543	10280
360	3.65590	1408	3.52806	365	23.70016	9672	27.22823	10036
370	3.66998	1433	3.53171	382	23.79688	9423	27.32859	9806
380	3.68431	1452	3.53553	400	23.89111	9189	27.42665	9589
390	3.69883	1466	3.53953	417	23.98300	8967	27.52254	9383
400	3.71349	7388	3.54370	2297	24.07267	41868	27.61637	44165
450	3.78737	7188	3.56667	2569	24.49135	37710	28.05802	40280
500	3.85925	6731	3.59236	2737	24.86845	34366	28.46082	37102
550	3.92656	6161	3.61973	2817	25.21211	31616	28.83184	34434
600	3.98817	5561	3.64790	2836	25.52827	29311	29.17618	32146
650	4.04378	4983	3.67626	2806	25.82138	27347	29.49764	30154
700	4.09361	4448	3.70432	2746	26.09485	25651	29.79918	28397
750	4.13809	3966	3.73178	2666	26.35136	24170	30.08315	26836
800	4.17775	3541	3.75844	2573	26.59306	22863	30.35151	25436
850	4.21316	3166	3.78417	2473	26.82169	21701	30.60587	24173
900	4.24482	2838	3.80890	2370	27.03870	20657	30.84760	23028
950	4.27320	2553	3.83260	2268	27.24527	19717	31.07788	21984
1000	4.29873	2305	3.85528	2167	27.44244	18863	31.29772	21031
1050	4.32178	2088	3.87695	2070	27.63107	18084	31.50803	20154
1100	4.34266	1899	3.89765	1977	27.81191	17369	31.70957	19346
1150	4.36165	1733	3.91742	1888	27.98560	16713	31.90303	18600

Table 2.051. AuT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.37898	3049	3.93630	3526	28.15273	31649	32.08903	35175
1300	4.40947	2599	3.97156	3223	28.46922	29552	32.44078	32775
1400	4.43546	2245	4.00379	2954	28.76474	27725	32.76853	30680
1500	4.45791	1967	4.03333	2717	29.04199	26119	33.07533	28835
1600	4.47758	1743	4.06050	2505	29.30318	24692	33.36368	27198
1700	4.49501	1563	4.08555	2319	29.55010	23419	33.63566	25738
1800	4.51064	1416	4.10874	2153	29.78429	22274	33.89304	24426
1900	4.52480	1295	4.13027	2006	30.00703	21237	34.13730	23243
2000	4.53775	1194	4.15033	1873	30.21940	20295	34.36973	22169
2100	4.54969	1111	4.16906	1756	30.42235	19436	34.59142	21191
2200	4.56080	1039	4.18662	1650	30.61671	18647	34.80333	20297
2300	4.57119	979	4.20312	1554	30.80318	17921	35.00630	19476
2400	4.58098	927	4.21866	1468	30.98239	17252	35.20106	18719
2500	4.59025	883	4.23334	1390	31.15491	16630	35.38825	18021
2600	4.59908	845	4.24724	1319	31.32121	16055	35.56846	17373
2700	4.60753	811	4.26043	1254	31.48176	15517	35.74219	16771
2800	4.61564	782	4.27297	1195	31.63693	15015	35.90990	16211
2900	4.62346	756	4.28492	1141	31.78708	14546	36.07201	15687
3000	4.63102	1446	4.29633	2138	31.93254	27797	36.22888	29934
3200	4.64548	1373	4.31771	1968	32.21051	26236	36.52822	28205
3400	4.65921	1315	4.33739	1825	32.47287	24844	36.81027	26669
3600	4.67236	1267	4.35564	1700	32.72131	23596	37.07696	25296
3800	4.68503	1226	4.37264	1593	32.95727	22470	37.32992	24062
4000	4.69729	1193	4.38857	1499	33.18197	21448	37.57054	22948
4200	4.70922	1165	4.40356	1416	33.39645	20519	37.80002	21934
4400	4.72087	1139	4.41772	1343	33.60164	19667	38.01936	21010
4600	4.73226	1118	4.43115	1278	33.79831	18886	38.22946	20164
4800	4.74344	1098	4.44393	1220	33.98717	18166	38.43110	19386
5000	4.75442		4.45613		34.16883		38.62496	

Table 2. 052. ZnH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50238	3	3.43715	1087	14.83552	62769	18.27267	63856
60	3.50241	14	3.44802	778	15.46321	53213	18.91123	53991
70	3.50255	20	3.45580	586	15.99534	46185	19.45114	46771
80	3.50275	24	3.46166	458	16.45719	40800	19.91885	41258
90	3.50299	25	3.46624	368	16.86519	36541	20.33143	36909
100	3.50324	26	3.46992	304	17.23060	33086	20.70052	33391
110	3.50350	28	3.47296	256	17.56146	30230	21.03443	30486
120	3.50378	30	3.47552	219	17.86376	27828	21.33929	28046
130	3.50408	31	3.47771	189	18.14204	25780	21.61975	25969
140	3.50439	37	3.47960	166	18.39984	24012	21.87944	24179
150	3.50476	43	3.48126	149	18.63996	22473	22.12123	22621
160	3.50519	56	3.48275	133	18.86469	21118	22.34744	21252
170	3.50575	72	3.48408	122	19.07587	19918	22.55996	20040
180	3.50647	95	3.48530	114	19.27505	18847	22.76036	18961
190	3.50742	124	3.48644	108	19.46352	17886	22.94997	17994
200	3.50866	162	3.48752	104	19.64238	17018	23.12991	17122
210	3.51028	206	3.48856	104	19.81256	16231	23.30113	16335
220	3.51234	255	3.48960	104	19.97487	15515	23.46448	15618
230	3.51489	312	3.49064	107	20.13002	14858	23.62066	14966
240	3.51801	372	3.49171	113	20.27860	14256	23.77032	14368
250	3.52173	437	3.49284	119	20.42116	13702	23.91400	13821
260	3.52610	505	3.49403	128	20.55818	13188	24.05221	13317
270	3.53115	573	3.49531	138	20.69006	12715	24.18538	12852
280	3.53688	643	3.49669	149	20.81721	12273	24.31390	12422
290	3.54331	712	3.49818	163	20.93994	11862	24.43812	12025
300	3.55043	780	3.49981	175	21.05856	11478	24.55837	11654
310	3.55823	845	3.50156	190	21.17334	11120	24.67491	11310
320	3.56668	907	3.50346	205	21.28454	10784	24.78801	10989
330	3.57575	968	3.50551	221	21.39238	10468	24.89790	10689
340	3.58543	1022	3.50772	237	21.49706	10172	25.00479	10408
350	3.59565	1075	3.51009	252	21.59878	9891	25.10887	10144
360	3.60640	1122	3.51261	269	21.69769	9628	25.21031	9897
370	3.61762	1166	3.51530	284	21.79397	9379	25.30928	9662
380	3.62928	1204	3.51814	301	21.88776	9142	25.40590	9443
390	3.64132	1239	3.52115	315	21.97918	8919	25.50033	9235
400	3.65371	6571	3.52430	1799	22.06837	41611	25.59268	43409
450	3.71942	6873	3.54229	2114	22.48448	37428	26.02677	39542
500	3.78815	6836	3.56343	2355	22.85876	34072	26.42219	36427
550	3.85651	6584	3.58698	2522	23.19948	31318	26.78646	33841
600	3.92235	6211	3.61220	2628	23.51266	29017	27.12487	31644
650	3.98446	5782	3.63848	2680	23.80283	27062	27.44131	29742
700	4.04228	5340	3.66528	2694	24.07345	25379	27.73873	28073
750	4.09568	4910	3.69222	2677	24.32724	23915	28.01946	26592
800	4.14478	4506	3.71899	2639	24.56639	22626	28.28538	25265
850	4.18984	4133	3.74538	2586	24.79265	21481	28.53803	24067
900	4.23117	3794	3.77124	2522	25.00746	20458	28.77870	22980
950	4.26911	3488	3.79646	2451	25.21204	19536	29.00850	21988
1000	4.30399	3216	3.82097	2378	25.40740	18700	29.22838	21078
1050	4.33615	2970	3.84475	2302	25.59440	17940	29.43916	20241
1100	4.36585	2753	3.86777	2226	25.77380	17242	29.64157	19469
1150	4.39338	2559	3.89003	2151	25.94622	16602	29.83626	18753

Table 2.052. ZnH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.41897	4616	3.91154	4085	26.11224	31472	30.02379	35557
1300	4.46513	4060	3.95239	3811	26.42696	29431	30.37936	33241
1400	4.50573	3615	3.99050	3557	26.72127	27655	30.71177	31212
1500	4.54188	3254	4.02607	3327	26.99782	26091	31.02389	29419
1600	4.57442	2959	4.05934	3119	27.25873	24704	31.31808	27822
1700	4.60401	2717	4.09053	2929	27.50577	23465	31.59630	26394
1800	4.63118	2516	4.11982	2758	27.74042	22349	31.86024	25108
1900	4.65634	2346	4.14740	2604	27.96391	21340	32.11132	23944
2000	4.67980	2204	4.17344	2464	28.17731	20423	32.35076	22887
2100	4.70184	2083	4.19808	2338	28.38154	19584	32.57963	21921
2200	4.72267	1978	4.22146	2223	28.57738	18814	32.79884	21037
2300	4.74245	1888	4.24369	2117	28.76552	18106	33.00921	20224
2400	4.76133	1809	4.26486	2023	28.94658	17452	33.21145	19474
2500	4.77942	1741	4.28509	1935	29.12110	16844	33.40619	18779
2600	4.79683	1679	4.30444	1855	29.28954	16280	33.59398	18135
2700	4.81362	1626	4.32299	1781	29.45234	15754	33.77533	17536
2800	4.82988	1577	4.34080	1714	29.60988	15263	33.95069	16976
2900	4.84565	1533	4.35794	1651	29.76251	14802	34.12045	16454
3000	4.86098	2953	4.37445	3134	29.91053	28333	34.28499	31467
3200	4.89051	2822	4.40579	2935	30.19386	26799	34.59966	29734
3400	4.91873	2711	4.43514	2762	30.46185	25430	34.89700	28191
3600	4.94584	2616	4.46276	2612	30.71615	24199	35.17891	26812
3800	4.97200	2532	4.48888	2479	30.95814	23089	35.44703	25567
4000	4.99732	2459	4.51367	2362	31.18903	22080	35.70270	24442
4200	5.02191	2392	4.53729	2258	31.40983	21160	35.94712	23418
4400	5.04583	2332	4.55987	2163	31.62143	20317	36.18130	22481
4600	5.06915	2278	4.58150	2080	31.82460	19543	36.40611	21622
4800	5.09193	2227	4.60230	2003	32.02003	18828	36.62233	20832
5000	5.11420		4.62233		32.20831		36.83065	

Table 2.053. ZnD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50173	24	3.46844	557	15.49694	63289	18.96539	63846
60	3.50197	26	3.47401	401	16.12983	53584	19.60385	53985
70	3.50223	28	3.47802	304	16.66567	46464	20.14370	46768
80	3.50251	29	3.48106	240	17.13031	41015	20.61138	41255
90	3.50280	32	3.48346	195	17.54046	36712	21.02393	36907
100	3.50312	39	3.48541	163	17.90758	33228	21.39300	33390
110	3.50351	53	3.48704	139	18.23986	30347	21.72690	30487
120	3.50404	79	3.48843	123	18.54333	27928	22.03177	28050
130	3.50483	119	3.48966	112	18.82261	25865	22.31227	25978
140	3.50602	177	3.49078	108	19.08126	24088	22.57205	24195
150	3.50779	254	3.49186	107	19.32214	22539	22.81400	22646
160	3.51033	345	3.49293	112	19.54753	21179	23.04046	21291
170	3.51378	453	3.49405	121	19.75932	19975	23.25337	20097
180	3.51831	570	3.49526	136	19.95907	18901	23.45434	19037
190	3.52401	695	3.49662	154	20.14808	17939	23.64471	18093
200	3.53096	824	3.49816	175	20.32747	17072	23.82564	17247
210	3.53920	952	3.49991	200	20.49819	16286	23.99811	16486
220	3.54872	1076	3.50191	226	20.66105	15572	24.16297	15798
230	3.55948	1195	3.50417	255	20.81677	14919	24.32095	15174
240	3.57143	1304	3.50672	285	20.96596	14321	24.47269	14605
250	3.58447	1406	3.50957	315	21.10917	13770	24.61874	14086
260	3.59853	1495	3.51272	345	21.24687	13264	24.75960	13608
270	3.61348	1574	3.51617	375	21.37951	12794	24.89568	13170
280	3.62922	1643	3.51992	405	21.50745	12359	25.02738	12764
290	3.64565	1699	3.52397	434	21.63104	11954	25.15502	12388
300	3.66264	1745	3.52831	462	21.75058	11577	25.27890	12038
310	3.68009	1782	3.53293	487	21.86635	11224	25.39928	11712
320	3.69791	1809	3.53780	513	21.97859	10894	25.51640	11406
330	3.71600	1827	3.54293	536	22.08753	10585	25.63046	11121
340	3.73427	1838	3.54829	557	22.19338	10293	25.74167	10851
350	3.75265	1842	3.55386	578	22.29631	10020	25.85018	10598
360	3.77107	1839	3.55964	596	22.39651	9761	25.95616	10357
370	3.78946	1831	3.56560	613	22.49412	9517	26.05973	10130
380	3.80777	1818	3.57173	629	22.58929	9286	26.16103	9915
390	3.82595	1801	3.57802	642	22.68215	9067	26.26018	9709
400	3.84396	8645	3.58444	3370	22.77282	42411	26.35727	45781
450	3.93041	7879	3.61814	3524	23.19693	38303	26.81508	41826
500	4.00920	7038	3.65338	3561	23.57996	34987	27.23334	38549
550	4.07958	6228	3.68899	3520	23.92983	32250	27.61883	35769
600	4.14186	5492	3.72419	3428	24.25233	29946	27.97652	33374
650	4.19678	4846	3.75847	3308	24.55179	27975	28.31026	31283
700	4.24524	4287	3.79155	3170	24.83154	26268	28.62309	29438
750	4.28811	3811	3.82325	3027	25.09422	24772	28.91747	27799
800	4.32622	3404	3.85352	2882	25.34194	23449	29.19546	26332
850	4.36026	3057	3.88234	2742	25.57643	22269	29.45878	25010
900	4.39083	2763	3.90976	2606	25.79912	21209	29.70888	23816
950	4.41846	2511	3.93582	2477	26.01121	20252	29.94704	22728
1000	4.44357	2294	3.96059	2355	26.21373	19381	30.17432	21737
1050	4.46651	2110	3.98414	2241	26.40754	18587	30.39169	20827
1100	4.48761	1949	4.00655	2135	26.59341	17857	30.59996	19992
1150	4.50710	1810	4.02790	2034	26.77198	17186	30.79988	19221

Table 2.053. ZnD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.52520	3273	4.04824	3798	26.94384	32555	30.99209	36353
1300	4.55793	2901	4.08622	3475	27.26939	30412	31.35562	33886
1400	4.58694	2611	4.12097	3195	27.57351	28542	31.69448	31737
1500	4.61305	2383	4.15292	2951	27.85893	26898	32.01185	29849
1600	4.63688	2200	4.18243	2739	28.12791	25439	32.31034	28178
1700	4.65888	2052	4.20982	2552	28.38230	24135	32.59212	26688
1800	4.67940	1929	4.23534	2389	28.62365	22965	32.85900	25353
1900	4.69869	1828	4.25923	2243	28.85330	21904	33.11253	24148
2000	4.71697	1742	4.28166	2115	29.07234	20942	33.35401	23056
2100	4.73439	1670	4.30281	2000	29.28176	20063	33.58457	22064
2200	4.75109	1608	4.32281	1897	29.48239	19258	33.80521	21155
2300	4.76717	1553	4.34178	1805	29.67497	18517	34.01676	20322
2400	4.78270	1507	4.35983	1722	29.86014	17833	34.21998	19554
2500	4.79777	1465	4.37705	1646	30.03847	17199	34.41552	18846
2600	4.81242	1428	4.39351	1578	30.21046	16612	34.60398	18189
2700	4.82670	1395	4.40929	1516	30.37658	16063	34.78587	17579
2800	4.84065	1365	4.42445	1459	30.53721	15551	34.96166	17011
2900	4.85430	1338	4.43904	1406	30.69272	15073	35.13177	16479
3000	4.86768	2604	4.45310	2673	30.84345	28826	35.29656	31499
3200	4.89372	2520	4.47983	2509	31.13171	27235	35.61155	29744
3400	4.91892	2447	4.50492	2369	31.40406	25817	35.90899	28185
3600	4.94339	2383	4.52861	2246	31.66223	24546	36.19084	26792
3800	4.96722	2325	4.55107	2139	31.90769	23399	36.45876	25538
4000	4.99047	2274	4.57246	2045	32.14168	22359	36.71414	24404
4200	5.01321	2225	4.59291	1961	32.36527	21411	36.95818	23373
4400	5.03546	2182	4.61252	1886	32.57938	20546	37.19191	22431
4600	5.05728	2139	4.63138	1820	32.78484	19749	37.41622	21569
4800	5.07867	2101	4.64958	1758	32.98233	19017	37.63191	20775
5000	5.09968		4.66716		33.17250		37.83966	

Table 2.054. ZnT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50161	28	3.47882	382	15.85352	63462	19.33234	63845
60	3.50189	28	3.48264	277	16.48814	53707	19.97079	53984
70	3.50217	31	3.48541	212	17.02521	46556	20.51063	46767
80	3.50248	38	3.48753	168	17.49077	41087	20.97830	41255
90	3.50286	57	3.48921	139	17.90164	36770	21.39085	36909
100	3.50343	94	3.49060	121	18.26934	33275	21.75994	33396
110	3.50437	158	3.49181	110	18.60209	30387	22.09390	30498
120	3.50595	252	3.49291	110	18.90596	27963	22.39888	28072
130	3.50847	378	3.49401	116	19.18559	25897	22.67960	26014
140	3.51225	528	3.49517	130	19.44456	24119	22.93974	24249
150	3.51753	697	3.49647	153	19.68575	22570	23.18223	22723
160	3.52450	879	3.49800	181	19.91145	21212	23.40946	21392
170	3.53329	1063	3.49981	214	20.12357	20010	23.62338	20225
180	3.54392	1245	3.50195	253	20.32367	18941	23.82563	19194
190	3.55637	1415	3.50448	294	20.51308	17983	24.01757	18277
200	3.57052	1573	3.50742	338	20.69291	17121	24.20034	17458
210	3.58625	1714	3.51080	381	20.86412	16341	24.37492	16722
220	3.60339	1834	3.51461	426	21.02753	15632	24.54214	16058
230	3.62173	1938	3.51887	468	21.18385	14986	24.70272	15455
240	3.64111	2020	3.52355	511	21.33371	14394	24.85727	14904
250	3.66131	2085	3.52866	550	21.47765	13850	25.00631	14400
260	3.68216	2132	3.53416	587	21.61615	13349	25.15031	13937
270	3.70348	2165	3.54003	623	21.74964	12886	25.28968	13508
280	3.72513	2182	3.54626	654	21.87850	12455	25.42476	13110
290	3.74695	2188	3.55280	684	22.00305	12056	25.55586	12739
300	3.76883	2183	3.55964	710	22.12361	11684	25.68325	12394
310	3.79066	2168	3.56674	733	22.24045	11335	25.80719	12069
320	3.81234	2145	3.57407	755	22.35380	11010	25.92788	11764
330	3.83379	2117	3.58162	773	22.46390	10703	26.04552	11477
340	3.85496	2082	3.58935	788	22.57093	10416	26.16029	11204
350	3.87578	2043	3.59723	803	22.67509	10145	26.27233	10948
360	3.89621	2001	3.60526	813	22.77654	9889	26.38181	10702
370	3.91622	1956	3.61339	823	22.87543	9648	26.48883	10470
380	3.93578	1909	3.62162	830	22.97191	9418	26.59353	10248
390	3.95487	1861	3.62992	836	23.06609	9200	26.69601	10037
400	3.97348	8568	3.63828	4212	23.15809	43096	26.79638	47307
450	4.05916	7379	3.68040	4166	23.58905	38994	27.26945	43160
500	4.13295	6318	3.72206	4030	23.97899	35665	27.70105	39695
550	4.19613	5414	3.76236	3846	24.33564	32903	28.09800	36750
600	4.25027	4662	3.80082	3641	24.66467	30568	28.46550	34209
650	4.29689	4040	3.83723	3431	24.97035	28564	28.80759	31994
700	4.33729	3530	3.87154	3225	25.25599	26822	29.12753	30048
750	4.37259	3110	3.90379	3029	25.52421	25292	29.42801	28321
800	4.40369	2761	3.93408	2845	25.77713	23937	29.71122	26782
850	4.43130	2473	3.96253	2675	26.01650	22725	29.97904	25400
900	4.45603	2233	3.98928	2516	26.24375	21637	30.23304	24153
950	4.47836	2030	4.01444	2371	26.46012	20653	30.47457	23023
1000	4.49866	1860	4.03815	2238	26.66665	19757	30.70480	21995
1050	4.51726	1714	4.06053	2115	26.86422	18939	30.92475	21054
1100	4.53440	1591	4.08168	2004	27.05361	18188	31.13529	20192
1150	4.55031	1485	4.10172	1900	27.23549	17497	31.33721	19398

Table 2. 054. ZnT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.56516	2706	4.12072	3525	27.41046	33125	31.53119	36650
1300	4.59222	2427	4.15597	3204	27.74171	30918	31.89769	34122
1400	4.61649	2213	4.18801	2932	28.05089	28996	32.23891	31927
1500	4.63862	2043	4.21733	2697	28.34085	27305	32.55818	30003
1600	4.65905	1909	4.24430	2497	28.61390	25807	32.85821	28303
1700	4.67814	1800	4.26927	2322	28.87197	24469	33.14124	26791
1800	4.69614	1710	4.29249	2169	29.11666	23267	33.40915	25437
1900	4.71324	1636	4.31418	2037	29.34933	22181	33.66352	24218
2000	4.72960	1573	4.33455	1919	29.57114	21196	33.90570	23114
2100	4.74533	1519	4.35374	1814	29.78310	20296	34.13684	22110
2200	4.76052	1473	4.37188	1722	29.98606	19472	34.35794	21194
2300	4.77525	1433	4.38910	1639	30.18078	18714	34.56988	20354
2400	4.78958	1397	4.40549	1565	30.36792	18017	34.77342	19581
2500	4.80355	1366	4.42114	1497	30.54809	17369	34.96923	18866
2600	4.81721	1338	4.43611	1436	30.72178	16769	35.15789	18206
2700	4.83059	1313	4.45047	1381	30.88947	16211	35.33995	17591
2800	4.84372	1289	4.46428	1331	31.05158	15689	35.51586	17020
2900	4.85661	1268	4.47759	1285	31.20847	15201	35.68606	16486
3000	4.86929	2480	4.49044	2445	31.36048	29060	35.85092	31506
3200	4.89409	2412	4.51489	2302	31.65108	27441	36.16598	29743
3400	4.91821	2353	4.53791	2179	31.92549	26000	36.46341	28178
3600	4.94174	2300	4.55970	2071	32.18549	24709	36.74519	26781
3800	4.96474	2251	4.58041	1978	32.43258	23545	37.01300	25523
4000	4.98725	2206	4.60019	1896	32.66803	22491	37.26823	24386
4200	5.00931	2165	4.61915	1823	32.89294	21530	37.51209	23354
4400	5.03096	2126	4.63738	1757	33.10824	20653	37.74563	22410
4600	5.05222	2090	4.65495	1699	33.31477	19848	37.96973	21547
4800	5.07312	2055	4.67194	1646	33.51325	19105	38.18520	20751
5000	5.09367		4.68840		33.70430		38.39271	

Table 2. 055. CdH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50212	13	3.44936	881	15.83719	62972	19.28656	63852
60	3.50225	21	3.45817	631	16.46691	53358	19.92508	53989
70	3.50246	24	3.46448	476	17.00049	46294	20.46497	46770
80	3.50270	27	3.46924	373	17.46343	40884	20.93267	41258
90	3.50297	28	3.47297	302	17.87227	36608	21.34525	36909
100	3.50325	29	3.47599	249	18.23835	33141	21.71434	33391
110	3.50354	31	3.47848	210	18.56976	30276	22.04825	30486
120	3.50385	36	3.48058	180	18.87252	27867	22.35311	28047
130	3.50421	42	3.48238	158	19.15119	25813	22.63358	25971
140	3.50463	56	3.48396	139	19.40932	24042	22.89329	24181
150	3.50519	76	3.48535	126	19.64974	22498	23.13510	22624
160	3.50595	104	3.48661	117	19.87472	21141	23.36134	21258
170	3.50699	143	3.48778	111	20.08613	19939	23.57392	20049
180	3.50842	191	3.48889	107	20.28552	18866	23.77441	18974
190	3.51033	251	3.48996	108	20.47418	17904	23.96415	18012
200	3.51284	317	3.49104	111	20.65322	17036	24.14427	17147
210	3.51601	392	3.49215	117	20.82358	16248	24.31574	16365
220	3.51993	474	3.49332	126	20.98606	15531	24.47939	15657
230	3.52467	560	3.49458	137	21.14137	14876	24.63596	15012
240	3.53027	648	3.49595	150	21.29013	14274	24.78608	14424
250	3.53675	737	3.49745	165	21.43287	13720	24.93032	13886
260	3.54412	826	3.49910	181	21.57007	13210	25.06918	13391
270	3.55238	913	3.50091	200	21.70217	12735	25.20309	12935
280	3.56151	996	3.50291	219	21.82952	12296	25.33244	12515
290	3.57147	1074	3.50510	239	21.95248	11887	25.45759	12126
300	3.58221	1148	3.50749	260	22.07135	11505	25.57885	11764
310	3.59369	1216	3.51009	280	22.18640	11149	25.69649	11429
320	3.60585	1279	3.51289	301	22.29789	10814	25.81078	11115
330	3.61864	1334	3.51590	321	22.40603	10501	25.92193	10822
340	3.63198	1384	3.51911	342	22.51104	10206	26.03015	10549
350	3.64582	1428	3.52253	363	22.61310	9928	26.13564	10290
360	3.66010	1465	3.52616	381	22.71238	9666	26.23854	10048
370	3.67475	1496	3.52997	401	22.80904	9419	26.33902	9820
380	3.68971	1523	3.53398	419	22.90323	9186	26.43722	9604
390	3.70494	1543	3.53817	436	22.99509	8963	26.53326	9399
400	3.72037	7868	3.54253	2412	23.08472	41861	26.62725	44273
450	3.79905	7796	3.56665	2716	23.50333	37716	27.06998	40433
500	3.87701	7432	3.59381	2916	23.88049	34389	27.47431	37304
550	3.95133	6923	3.62297	3028	24.22438	31653	27.84735	34682
600	4.02056	6362	3.65325	3074	24.54091	29363	28.19417	32436
650	4.08418	5801	3.68399	3069	24.83454	27414	28.51853	30483
700	4.14219	5272	3.71468	3029	25.10868	25732	28.82336	28761
750	4.19491	4788	3.74497	2964	25.36600	24264	29.11097	27229
800	4.24279	4352	3.77461	2884	25.60864	22971	29.38326	25854
850	4.28631	3965	3.80345	2794	25.83835	21819	29.64180	24614
900	4.32596	3623	3.83139	2700	26.05654	20788	29.88794	23488
950	4.36219	3322	3.85839	2603	26.26442	19858	30.12282	22461
1000	4.39541	3058	3.88442	2507	26.46300	19013	30.34743	21520
1050	4.42599	2826	3.90949	2413	26.65313	18243	30.56263	20656
1100	4.45425	2621	3.93362	2321	26.83556	17537	30.76919	19858
1150	4.48046	2442	3.95683	2234	27.01093	16888	30.96777	19121

Table 2. 055. CdH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.50488	4424	3.97917	4217	27.17981	32019	31.15898	36237
1300	4.54912	3924	4.02134	3913	27.50000	29946	31.52135	33859
1400	4.58836	3526	4.06047	3639	27.79946	28140	31.85994	31779
1500	4.62362	3207	4.09686	3394	28.08086	26551	32.17773	29944
1600	4.65569	2948	4.13080	3175	28.34637	25139	32.47717	28314
1700	4.68517	2735	4.16255	2980	28.59776	23877	32.76031	26858
1800	4.71252	2559	4.19235	2806	28.83653	22743	33.02889	25549
1900	4.73811	2412	4.22041	2649	29.06396	21716	33.28438	24365
2000	4.76223	2286	4.24690	2509	29.28112	20782	33.52803	23291
2100	4.78509	2178	4.27199	2382	29.48894	19929	33.76094	22311
2200	4.80687	2087	4.29581	2268	29.68823	19146	33.98405	21414
2300	4.82774	2006	4.31849	2164	29.87969	18425	34.19819	20589
2400	4.84780	1935	4.34013	2070	30.06394	17760	34.40408	19829
2500	4.86715	1873	4.36083	1983	30.24154	17142	34.60237	19126
2600	4.88588	1818	4.38066	1905	30.41296	16569	34.79363	18474
2700	4.90406	1767	4.39971	1833	30.57865	16034	34.97837	17867
2800	4.92173	1722	4.41804	1767	30.73899	15535	35.15704	17301
2900	4.93895	1682	4.43571	1705	30.89434	15066	35.33005	16772
3000	4.95577	3253	4.45276	3247	31.04500	28843	35.49777	32089
3200	4.98830	3125	4.48523	3051	31.33343	27284	35.81866	30336
3400	5.01955	3014	4.51574	2883	31.60627	25893	36.12202	28776
3600	5.04969	2917	4.54457	2736	31.86520	24646	36.40978	27381
3800	5.07886	2830	4.57193	2606	32.11166	23517	36.68359	26124
4000	5.10716	2751	4.59799	2490	32.34683	22495	36.94483	24984
4200	5.13467	2678	4.62289	2388	32.57178	21561	37.19467	23949
4400	5.16145	2612	4.64677	2294	32.78739	20707	37.43416	23001
4600	5.18757	2550	4.66971	2212	32.99446	19921	37.66417	22133
4800	5.21307	2492	4.69183	2135	33.19367	19196	37.88550	21331
5000	5.23799		4.71318		33.38563		38.09881	

Table 2.056. CdD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50169	27	3.47470	452	16.49896	63393	19.97366	63846
60	3.50196	29	3.47922	327	17.13289	53659	20.61212	53985
70	3.50225	30	3.48249	249	17.66948	46519	21.15197	46768
80	3.50255	34	3.48498	197	18.13467	41059	21.61965	41256
90	3.50289	43	3.48695	161	18.54526	36747	22.03221	36909
100	3.50332	66	3.48856	137	18.91273	33256	22.40130	33393
110	3.50398	105	3.48993	121	19.24529	30372	22.73523	30493
120	3.50503	170	3.49114	113	19.54901	27949	23.04016	28062
130	3.50673	260	3.49227	112	19.82850	25884	23.32078	25996
140	3.50933	374	3.49339	118	20.08734	24106	23.58074	24224
150	3.51307	512	3.49457	131	20.32840	22558	23.82298	22689
160	3.51819	664	3.49588	150	20.55398	21198	24.04987	21348
170	3.52483	828	3.49738	175	20.76596	19995	24.26335	20170
180	3.53311	995	3.49913	204	20.96591	18924	24.46505	19128
190	3.54306	1161	3.50117	238	21.15515	17965	24.65633	18202
200	3.55467	1318	3.50355	274	21.33480	17100	24.83835	17375
210	3.56785	1466	3.50629	313	21.50580	16319	25.01210	16631
220	3.58251	1600	3.50942	352	21.66899	15607	25.17841	15960
230	3.59851	1718	3.51294	392	21.82506	14959	25.33801	15351
240	3.61569	1821	3.51686	431	21.97465	14366	25.49152	14796
250	3.63390	1907	3.52117	470	22.11831	13819	25.63948	14290
260	3.65297	1978	3.52587	507	22.25650	13316	25.78238	13823
270	3.67275	2032	3.53094	543	22.38966	12851	25.92061	13394
280	3.69307	2073	3.53637	576	22.51817	12420	26.05455	12995
290	3.71380	2101	3.54213	607	22.64237	12018	26.18450	12626
300	3.73481	2118	3.54820	636	22.76255	11645	26.31076	12281
310	3.75599	2123	3.55456	663	22.87900	11296	26.43357	11958
320	3.77722	2119	3.56119	687	22.99196	10968	26.55315	11656
330	3.79841	2109	3.56806	708	23.10164	10663	26.66971	11370
340	3.81950	2090	3.57514	728	23.20827	10374	26.78341	11102
350	3.84040	2066	3.58242	746	23.31201	10102	26.89443	10848
360	3.86106	2037	3.58988	760	23.41303	9846	27.00291	10607
370	3.88143	2004	3.59748	774	23.51149	9604	27.10898	10378
380	3.90147	1969	3.60522	785	23.60753	9375	27.21276	10160
390	3.92116	1930	3.61307	794	23.70128	9158	27.31436	9951
400	3.94046	9019	3.62101	4061	23.79286	42883	27.41387	46944
450	4.03065	7936	3.66162	4096	24.22169	38791	27.88331	42887
500	4.11001	6911	3.70258	4025	24.60960	35479	28.31218	39504
550	4.17912	6008	3.74283	3892	24.96439	32735	28.70722	36627
600	4.23920	5236	3.78175	3725	25.29174	30418	29.07349	34144
650	4.29156	4586	3.81900	3543	25.59592	28433	29.41493	31975
700	4.33742	4043	3.85443	3357	25.88025	26708	29.73468	30066
750	4.37785	3592	3.88800	3176	26.14733	25195	30.03534	28371
800	4.41377	3214	3.91976	3002	26.39928	23855	30.31905	26856
850	4.44591	2898	3.94978	2838	26.63783	22657	30.58761	25496
900	4.47489	2633	3.97816	2685	26.86440	21581	30.84257	24266
950	4.50122	2408	4.00501	2542	27.08021	20609	31.08523	23150
1000	4.52530	2218	4.03043	2410	27.28630	19723	31.31673	22134
1050	4.54748	2055	4.05453	2288	27.48353	18915	31.53807	21203
1100	4.56803	1916	4.07741	2175	27.67268	18173	31.75010	20348
1150	4.58719	1795	4.09916	2072	27.85441	17490	31.95358	19561

Table 2. 056. CdD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.60514	3291	4.11988	3861	28.02931	33132	32.14919	36994
1300	4.63805	2971	4.15849	3533	28.36063	30949	32.51913	34482
1400	4.66776	2722	4.19382	3252	28.67012	29047	32.86395	32298
1500	4.69498	2524	4.22634	3009	28.96059	27373	33.18693	30382
1600	4.72022	2366	4.25643	2798	29.23432	25889	33.49075	28688
1700	4.74388	2237	4.28441	2616	29.49321	24564	33.77763	27179
1800	4.76625	2129	4.31057	2454	29.73885	23373	34.04942	25828
1900	4.78754	2038	4.33511	2314	29.97258	22295	34.30770	24609
2000	4.80792	1962	4.35825	2188	30.19553	21318	34.55379	23505
2100	4.82754	1895	4.38013	2077	30.40871	20425	34.78884	22502
2200	4.84649	1837	4.40090	1978	30.61296	19606	35.01386	21584
2300	4.86486	1786	4.42068	1888	30.80902	18855	35.22970	20743
2400	4.88272	1740	4.43956	1807	30.99757	18160	35.43713	19968
2500	4.90012	1700	4.45763	1735	31.17917	17517	35.63681	19252
2600	4.91712	1663	4.47498	1668	31.35434	16920	35.82933	18588
2700	4.93375	1629	4.49166	1608	31.52354	16365	36.01521	17973
2800	4.95004	1598	4.50774	1553	31.68719	15845	36.19494	17398
2900	4.96602	1569	4.52327	1502	31.84564	15360	36.36892	16862
3000	4.98171	3061	4.53829	2868	31.99924	29382	36.53754	32250
3200	5.01232	2967	4.56697	2707	32.29306	27769	36.86004	30476
3400	5.04199	2883	4.59404	2569	32.57075	26333	37.16480	28901
3600	5.07082	2806	4.61973	2449	32.83408	25043	37.45381	27492
3800	5.09888	2737	4.64422	2342	33.08451	23882	37.72873	26224
4000	5.12625	2671	4.66764	2247	33.32333	22828	37.99097	25076
4200	5.15296	2611	4.69011	2164	33.55161	21869	38.24173	24032
4400	5.17907	2553	4.71175	2087	33.77030	20991	38.48205	23079
4600	5.20460	2499	4.73262	2019	33.98021	20185	38.71284	22203
4800	5.22959	2447	4.75281	1956	34.18206	19441	38.93487	21398
5000	5.25406		4.77237		34.37647		39.14885	

Table 2. 057. CdT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50162	29	3.48314	311	16.89305	63535	20.37620	63845
60	3.50191	32	3.48625	226	17.52840	53758	21.01465	53984
70	3.50223	40	3.48851	174	18.06598	46595	21.55449	46769
80	3.50263	65	3.49025	140	18.53193	41117	22.02218	41258
90	3.50328	119	3.49165	122	18.94310	36795	22.43476	36916
100	3.50447	215	3.49287	114	19.31105	33296	22.80392	33411
110	3.50662	354	3.49401	119	19.64401	30407	23.13803	30525
120	3.51016	537	3.49520	134	19.94808	27982	23.44328	28117
130	3.51553	750	3.49654	162	20.22790	25918	23.72445	26079
140	3.52303	985	3.49816	197	20.48708	24141	23.98524	24338
150	3.53288	1226	3.50013	242	20.72849	22597	24.22862	22839
160	3.54514	1460	3.50255	292	20.95446	21242	24.45701	21535
170	3.55974	1681	3.50547	347	21.16688	20047	24.67236	20392
180	3.57655	1878	3.50894	405	21.36735	18982	24.87629	19387
190	3.59533	2050	3.51299	462	21.55717	18031	25.07016	18493
200	3.61583	2194	3.51761	519	21.73748	17175	25.25509	17695
210	3.63777	2308	3.52280	575	21.90923	16401	25.43204	16975
220	3.66085	2396	3.52855	627	22.07324	15699	25.60179	16326
230	3.68481	2458	3.53482	676	22.23023	15058	25.76505	15734
240	3.70939	2498	3.54158	721	22.38081	14472	25.92239	15193
250	3.73437	2516	3.54879	762	22.52553	13933	26.07432	14696
260	3.75953	2519	3.55641	799	22.66486	13437	26.22128	14236
270	3.78472	2504	3.56440	832	22.79923	12978	26.36364	13809
280	3.80976	2479	3.57272	860	22.92901	12552	26.50173	13412
290	3.83455	2443	3.58132	885	23.05453	12156	26.63585	13041
300	3.85898	2399	3.59017	906	23.17609	11787	26.76626	12693
310	3.88297	2349	3.59923	924	23.29396	11441	26.89319	12365
320	3.90646	2292	3.60847	937	23.40837	11119	27.01684	12057
330	3.92938	2234	3.61784	950	23.51956	10814	27.13741	11763
340	3.95172	2172	3.62734	958	23.62770	10529	27.25504	11487
350	3.97344	2109	3.63692	964	23.73299	10259	27.36991	11223
360	3.99453	2045	3.64656	968	23.83558	10004	27.48214	10973
370	4.01498	1980	3.65624	970	23.93562	9763	27.59187	10733
380	4.03478	1918	3.66594	971	24.03325	9536	27.69920	10506
390	4.05396	1854	3.67565	969	24.12861	9318	27.80426	10287
400	4.07250	8373	3.68534	4780	24.22179	43684	27.90713	48465
450	4.15623	7034	3.73314	4593	24.65863	39572	28.39178	44165
500	4.22657	5928	3.77907	4345	25.05435	36225	28.83343	40569
550	4.28585	5033	3.82252	4077	25.41660	33437	29.23912	37514
600	4.33618	4316	3.86329	3807	25.75097	31075	29.61426	34883
650	4.37934	3741	3.90136	3551	26.06172	29043	29.96309	32594
700	4.41675	3278	3.93687	3311	26.35215	27276	30.28903	30587
750	4.44953	2903	3.96998	3089	26.62491	25722	30.59490	28811
800	4.47856	2598	4.00087	2888	26.88213	24343	30.88301	27230
850	4.50454	2347	4.02975	2704	27.12556	23110	31.15531	25815
900	4.52801	2139	4.05679	2537	27.35666	22003	31.41346	24540
950	4.54940	1967	4.08216	2386	27.57669	21000	31.65886	23386
1000	4.56907	1821	4.10602	2249	27.78669	20088	31.89272	22337
1050	4.58728	1699	4.12851	2125	27.98757	19256	32.11609	21380
1100	4.60427	1593	4.14976	2011	28.18013	18491	32.32989	20502
1150	4.62020	1505	4.16987	1908	28.36504	17787	32.53491	19696

Table 2.057. CdT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(\text{H}^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.63525	2786	4.18895	3542	28.54291	33672	32.73187	37213
1300	4.66311	2550	4.22437	3226	28.87963	31426	33.10400	34652
1400	4.68861	2368	4.25663	2960	29.19389	29470	33.45052	32430
1500	4.71229	2223	4.28623	2733	29.48859	27751	33.77482	30484
1600	4.73452	2107	4.31356	2538	29.76610	26228	34.07966	28767
1700	4.75559	2012	4.33894	2371	30.02838	24869	34.36733	27239
1800	4.77571	1932	4.36265	2226	30.27707	23647	34.63972	25873
1900	4.79503	1866	4.38491	2097	30.51354	22546	34.89845	24643
2000	4.81369	1807	4.40588	1985	30.73900	21545	35.14488	23531
2100	4.83176	1757	4.42573	1886	30.95445	20632	35.38019	22518
2200	4.84933	1713	4.44459	1797	31.16077	19797	35.60537	21594
2300	4.86646	1674	4.46256	1718	31.35874	19029	35.82131	20747
2400	4.88320	1638	4.47974	1647	31.54903	18321	36.02878	19967
2500	4.89958	1606	4.49621	1582	31.73224	17666	36.22845	19248
2600	4.91564	1577	4.51203	1524	31.90890	17057	36.42093	18582
2700	4.93141	1550	4.52727	1471	32.07947	16491	36.60675	17962
2800	4.94691	1525	4.54198	1423	32.24438	15964	36.78637	17386
2900	4.96216	1502	4.55621	1378	32.40402	15469	36.96023	16848
3000	4.97718	2938	4.56999	2637	32.55871	29579	37.12871	32216
3200	5.00656	2859	4.59636	2498	32.85450	27941	37.45087	30439
3400	5.03515	2787	4.62134	2377	33.13391	26483	37.75526	28859
3600	5.06302	2722	4.64511	2271	33.39874	25176	38.04385	27448
3800	5.09024	2659	4.66782	2179	33.65050	23999	38.31833	26177
4000	5.11683	2602	4.68961	2096	33.89049	22931	38.58010	25028
4200	5.14285	2547	4.71057	2023	34.11980	21961	38.83038	23984
4400	5.16832	2495	4.73080	1957	34.33941	21073	39.07022	23029
4600	5.19327	2446	4.75037	1897	34.55014	20257	39.30051	22154
4800	5.21773	2397	4.76934	1841	34.75271	19507	39.52205	21349
5000	5.24170		4.78775		34.94778		39.73554	

Table 2. 058. HgH

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50208	12	3.44863	892	16.68766	62960	20.13630	63852
60	3.50220	20	3.45755	639	17.31726	53349	20.77482	53988
70	3.50240	23	3.46394	482	17.85075	46288	21.31470	46769
80	3.50263	25	3.46876	378	18.31363	40878	21.78239	41257
90	3.50288	28	3.47254	305	18.72241	36604	22.19496	36908
100	3.50316	30	3.47559	252	19.08845	33138	22.56404	33390
110	3.50346	37	3.47811	212	19.41983	30273	22.89794	30486
120	3.50383	48	3.48023	184	19.72256	27864	23.20280	28047
130	3.50431	68	3.48207	161	20.00120	25811	23.48327	25972
140	3.50499	99	3.48368	145	20.25931	24040	23.74299	24185
150	3.50598	144	3.48513	135	20.49971	22497	23.98484	22632
160	3.50742	202	3.48648	128	20.72468	21140	24.21116	21269
170	3.50944	273	3.48776	128	20.93608	19939	24.42385	20067
180	3.51217	359	3.48904	131	21.13547	18868	24.62452	18998
190	3.51576	454	3.49035	138	21.32415	17907	24.81450	18045
200	3.52030	558	3.49173	149	21.50322	17039	24.99495	17189
210	3.52588	667	3.49322	163	21.67361	16255	25.16684	16417
220	3.53255	780	3.49485	180	21.83616	15539	25.33101	15720
230	3.54035	893	3.49665	201	21.99155	14886	25.48821	15086
240	3.54928	1003	3.49866	222	22.14041	14286	25.63907	14509
250	3.55931	1111	3.50088	246	22.28327	13736	25.78416	13981
260	3.57042	1213	3.50334	270	22.42063	13226	25.92397	13497
270	3.58255	1308	3.50604	297	22.55289	12756	26.05894	13052
280	3.59563	1396	3.50901	322	22.68045	12319	26.18946	12642
290	3.60959	1476	3.51223	349	22.80364	11913	26.31588	12262
300	3.62435	1548	3.51572	375	22.92277	11534	26.43850	11909
310	3.63983	1612	3.51947	401	23.03811	11180	26.55759	11581
320	3.65595	1667	3.52348	427	23.14991	10849	26.67340	11276
330	3.67262	1716	3.52775	451	23.25840	10538	26.78616	10989
340	3.68978	1755	3.53226	475	23.36378	10246	26.89605	10721
350	3.70733	1788	3.53701	498	23.46624	9971	27.00326	10469
360	3.72521	1815	3.54199	520	23.56595	9712	27.10795	10231
370	3.74336	1835	3.54719	540	23.66307	9467	27.21026	10007
380	3.76171	1849	3.55259	560	23.75774	9235	27.31033	9796
390	3.78020	1858	3.55819	578	23.85009	9016	27.40829	9594
400	3.79878	9282	3.56397	3126	23.94025	42154	27.50423	45280
450	3.89160	8982	3.59523	3417	24.36179	38055	27.95703	41471
500	3.98142	8456	3.62940	3589	24.74234	34759	28.37174	38348
550	4.06598	7838	3.66529	3670	25.08993	32049	28.75522	35720
600	4.14436	7204	3.70199	3684	25.41042	29778	29.11242	33461
650	4.21640	6600	3.73883	3650	25.70820	27841	29.44703	31492
700	4.28240	6041	3.77533	3585	25.98661	26170	29.76195	29754
750	4.34281	5536	3.81118	3498	26.24831	24709	30.05949	28208
800	4.39817	5086	3.84616	3399	26.49540	23420	30.34157	26818
850	4.44903	4686	3.88015	3292	26.72960	22272	30.60975	25566
900	4.49589	4334	3.91307	3183	26.95232	21243	30.86540	24425
950	4.53923	4023	3.94490	3074	27.16475	20313	31.10965	23387
1000	4.57946	3747	3.97564	2965	27.36788	19469	31.34352	22435
1050	4.61693	3505	4.00529	2861	27.56257	18699	31.56787	21560
1100	4.65198	3288	4.03390	2759	27.74956	17993	31.78347	20752
1150	4.68486	3097	4.06149	2663	27.92949	17342	31.99099	20005

Table 2. 058. HgH (Cont.)

λ	$\frac{C_p}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
1200	4.71583	5700	4.08812	5052	28.10291	32925	32.19104	37976
1300	4.77283	5148	4.13864	4716	28.43216	30845	32.57080	35562
1400	4.82431	4700	4.18580	4416	28.74061	29031	32.92642	33447
1500	4.87131	4330	4.22996	4145	29.03092	27433	33.26089	31578
1600	4.91461	4021	4.27141	3904	29.30525	26014	33.57667	29917
1700	4.95482	3759	4.31045	3685	29.56539	24743	33.87584	28429
1800	4.99241	3536	4.34730	3489	29.81282	23599	34.16013	27088
1900	5.02777	3341	4.38219	3312	30.04881	22563	34.43101	25875
2000	5.06118	3172	4.41531	3152	30.27444	21619	34.68976	24771
2100	5.09290	3023	4.44683	3006	30.49063	20757	34.93747	23762
2200	5.12313	2889	4.47689	2873	30.69820	19964	35.17509	22838
2300	5.15202	2770	4.50562	2752	30.89784	19234	35.40347	21985
2400	5.17972	2662	4.53314	2639	31.09018	18559	35.62332	21199
2500	5.20634	2564	4.55953	2538	31.27577	17933	35.83531	20470
2600	5.23198	2474	4.58491	2442	31.45510	17350	36.04001	19793
2700	5.25672	2392	4.60933	2355	31.62860	16806	36.23794	19161
2800	5.28064	2315	4.63288	2274	31.79666	16297	36.42955	18571
2900	5.30379	2244	4.65562	2198	31.95963	15820	36.61526	18018
3000	5.32623	4295	4.67760	4190	32.11783	30324	36.79544	34513
3200	5.36918	4062	4.71950	3942	32.42107	28731	37.14057	32674
3400	5.40980	3856	4.75892	3724	32.70838	27308	37.46731	31032
3600	5.44836	3671	4.79616	3530	32.98146	26027	37.77763	29557
3800	5.48507	3503	4.83146	3356	33.24173	24868	38.07320	28224
4000	5.52010	3351	4.86502	3200	33.49041	23815	38.35544	27014
4200	5.55361	3212	4.89702	3058	33.72856	22852	38.62558	25910
4400	5.58573	3082	4.92760	2929	33.95708	21969	38.88468	24898
4600	5.61655	2963	4.95689	2811	34.17677	21156	39.13366	23967
4800	5.64618	2852	4.98500	2702	34.38833	20405	39.37333	23107
5000	5.67470		5.01202		34.59238		39.60440	

Table 2.059. HgD

$^{\circ}K$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50181	29	3.47442	459	17.34385	63390	20.81828	63848
60	3.50210	31	3.47901	332	17.97775	53655	21.45676	53988
70	3.50241	33	3.48233	253	18.51430	46517	21.99664	46770
80	3.50274	43	3.48486	201	18.97947	41058	22.46434	41259
90	3.50317	63	3.48687	166	19.39005	36747	22.87693	36912
100	3.50380	107	3.48853	143	19.75752	33256	23.24605	33400
110	3.50487	177	3.48996	131	20.09008	30372	23.58005	30503
120	3.50664	282	3.49127	129	20.39380	27951	23.88508	28079
130	3.50946	417	3.49256	134	20.67331	25887	24.16587	26022
140	3.51363	580	3.49390	150	20.93218	24111	24.42609	24260
150	3.51943	761	3.49540	173	21.17329	22564	24.66869	22737
160	3.52704	953	3.49713	203	21.39893	21207	24.89606	21411
170	3.53657	1149	3.49916	239	21.61100	20007	25.11017	20246
180	3.54806	1338	3.50155	279	21.81107	18939	25.31263	19218
190	3.56144	1518	3.50434	323	22.00046	17983	25.50481	18306
200	3.57662	1682	3.50757	368	22.18029	17123	25.68787	17490
210	3.59344	1828	3.51125	415	22.35152	16343	25.86277	16759
220	3.61172	1955	3.51540	461	22.51495	15637	26.03036	16097
230	3.63127	2062	3.52001	506	22.67132	14992	26.19133	15498
240	3.65189	2149	3.52507	550	22.82124	14401	26.34631	14951
250	3.67338	2218	3.53057	592	22.96525	13858	26.49582	14450
260	3.69556	2270	3.53649	631	23.10383	13359	26.64032	13990
270	3.71826	2305	3.54280	667	23.23742	12896	26.78022	13564
280	3.74131	2327	3.54947	702	23.36638	12468	26.91586	13169
290	3.76458	2336	3.55649	733	23.49106	12069	27.04755	12802
300	3.78794	2334	3.56382	760	23.61175	11698	27.17557	12459
310	3.81128	2322	3.57142	786	23.72873	11351	27.30016	12137
320	3.83450	2303	3.57928	808	23.84224	11027	27.42153	11835
330	3.85753	2278	3.58736	829	23.95251	10721	27.53988	11549
340	3.88031	2246	3.59565	845	24.05972	10435	27.65537	11281
350	3.90277	2209	3.60410	860	24.16407	10165	27.76818	11025
360	3.92486	2170	3.61270	874	24.26572	9911	27.87843	10784
370	3.94656	2128	3.62144	883	24.36483	9669	27.98627	10553
380	3.96784	2083	3.63027	893	24.46152	9442	28.09180	10334
390	3.98867	2037	3.63920	899	24.55594	9225	28.19514	10124
400	4.00904	9472	3.64819	4547	24.64819	43231	28.29638	47778
450	4.10376	8306	3.69366	4525	25.08050	39152	28.77416	43678
500	4.18682	7251	3.73891	4409	25.47202	35843	29.21094	40252
550	4.25933	6339	3.78300	4240	25.83045	33100	29.61346	37339
600	4.32272	5572	3.82540	4044	26.16145	30781	29.98685	34825
650	4.37844	4931	3.86584	3841	26.46926	28790	30.33510	32632
700	4.42775	4397	3.90425	3639	26.75716	27062	30.66142	30701
750	4.47172	3954	3.94064	3445	27.02778	25544	30.96843	28988
800	4.51126	3582	3.97509	3261	27.28322	24197	31.25831	27459
850	4.54708	3270	4.00770	3089	27.52519	22996	31.53290	26084
900	4.57978	3008	4.03859	2928	27.75515	21914	31.79374	24843
950	4.60986	2784	4.06787	2781	27.97429	20937	32.04217	23718
1000	4.63770	2593	4.09568	2643	28.18366	20048	32.27935	22690
1050	4.66363	2429	4.12211	2518	28.38414	19234	32.50625	21752
1100	4.68792	2287	4.14729	2400	28.57648	18489	32.72377	20890
1150	4.71079	2164	4.17129	2294	28.76137	17802	32.93267	20095

Table 2. 059. HgD (Cont.)

λ	$\frac{C_p}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
1200	4.73243	4015	4.19423	4297	28.93939	33744	33.13362	38041
1300	4.77258	3676	4.23720	3957	29.27683	31548	33.51403	35505
1400	4.80934	3406	4.27677	3665	29.59231	29633	33.86908	33298
1500	4.84340	3187	4.31342	3413	29.88864	27948	34.20206	31362
1600	4.87527	3005	4.34755	3194	30.16812	26454	34.51568	29647
1700	4.90532	2853	4.37949	3001	30.43266	25118	34.81215	28120
1800	4.93385	2722	4.40950	2832	30.68384	23918	35.09335	26749
1900	4.96107	2610	4.43782	2682	30.92302	22832	35.36084	25514
2000	4.98717	2510	4.46464	2548	31.15134	21845	35.61598	24393
2100	5.01227	2422	4.49012	2429	31.36979	20944	35.85991	23374
2200	5.03649	2344	4.51441	2321	31.57923	20119	36.09365	22440
2300	5.05993	2272	4.53762	2224	31.78042	19360	36.31805	21583
2400	5.08265	2208	4.55986	2135	31.97402	18657	36.53388	20793
2500	5.10473	2147	4.58121	2055	32.16059	18009	36.74181	20063
2600	5.12620	2092	4.60176	1982	32.34068	17404	36.94244	19386
2700	5.14712	2041	4.62158	1913	32.51472	16843	37.13630	18756
2800	5.16753	1993	4.64071	1851	32.68315	16317	37.32386	18169
2900	5.18746	1947	4.65922	1794	32.84632	15826	37.50555	17619
3000	5.20693	1902	4.67716	1742	33.00458	15366	37.68174	17106
3200	5.24463	1817	4.71145	1644	33.30754	14461	38.01900	16195
3400	5.28080	1738	4.74389	1560	33.59415	13624	38.33805	15383
3600	5.31558	1663	4.77469	1485	33.86619	12854	38.64088	14663
3800	5.34908	1593	4.80404	1417	34.12513	12144	38.92918	14033
4000	5.38141	1524	4.83211	1354	34.37227	11494	39.20438	13483
4200	5.41265	1459	4.85901	1294	34.60868	10904	39.46770	12913
4400	5.44286	1396	4.88487	1237	34.83532	10374	39.72020	12423
4600	5.47212	1336	4.90977	1183	35.05302	9894	39.96279	11913
4800	5.50048	1278	4.93380	1132	35.26249	9454	40.19629	11483
5000	5.52800	1222	4.95702	1082	35.46437	9054	40.42139	11093

Table 2.060. HgT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50173	32	3.48307	313	17.73714	63533	21.22021	63847
60	3.50205	36	3.48620	229	18.37247	53758	21.85868	53987
70	3.50241	54	3.48849	177	18.91005	46595	22.39855	46771
80	3.50295	100	3.49026	146	19.37600	41118	22.86626	41264
90	3.50395	190	3.49172	131	19.78718	36796	23.27890	36927
100	3.50585	334	3.49303	130	20.15514	33298	23.64817	33429
110	3.50919	532	3.49433	145	20.48812	30411	23.98246	30555
120	3.51451	772	3.49578	172	20.79223	27987	24.28801	28160
130	3.52223	1037	3.49750	212	21.07210	25927	24.56961	26139
140	3.53260	1312	3.49962	262	21.33137	24154	24.83100	24415
150	3.54572	1580	3.50224	320	21.57291	22613	25.07515	22933
160	3.56152	1831	3.50544	382	21.79904	21262	25.30448	21645
170	3.57983	2053	3.50926	448	22.01166	20071	25.52093	20519
180	3.60036	2245	3.51374	515	22.21237	19011	25.72612	19526
190	3.62281	2401	3.51889	579	22.40248	18064	25.92138	18643
200	3.64682	2526	3.52468	641	22.58312	17213	26.10781	17853
210	3.67208	2617	3.53109	700	22.75525	16442	26.28634	17143
220	3.69825	2681	3.53809	755	22.91967	15744	26.45777	16498
230	3.72506	2717	3.54564	804	23.07711	15107	26.62275	15911
240	3.75223	2733	3.55368	849	23.22818	14524	26.78186	15373
250	3.77956	2728	3.56217	888	23.37342	13988	26.93559	14877
260	3.80684	2707	3.57105	924	23.51330	13495	27.08436	14418
270	3.83391	2675	3.58029	953	23.64825	13038	27.22854	13991
280	3.86066	2630	3.58982	980	23.77863	12614	27.36845	13594
290	3.88696	2579	3.59962	1001	23.90477	12220	27.50439	13221
300	3.91275	2520	3.60963	1018	24.02697	11852	27.63660	12871
310	3.93795	2458	3.61981	1033	24.14549	11509	27.76531	12542
320	3.96253	2391	3.63014	1044	24.26058	11187	27.89073	12230
330	3.98644	2324	3.64058	1051	24.37245	10883	28.01303	11935
340	4.00968	2253	3.65109	1057	24.48128	10599	28.13238	11656
350	4.03221	2185	3.66166	1060	24.58727	10330	28.24894	11390
360	4.05406	2115	3.67226	1061	24.69057	10077	28.36284	11137
370	4.07521	2046	3.68287	1059	24.79134	9835	28.47421	10895
380	4.09567	1979	3.69346	1057	24.88969	9608	28.58316	10664
390	4.11546	1913	3.70403	1053	24.98577	9391	28.68980	10444
400	4.13459	8643	3.71456	5161	25.07968	44051	28.79424	49212
450	4.22102	7293	3.76617	4923	25.52019	39938	29.28636	44861
500	4.29395	6196	3.81540	4639	25.91957	36584	29.73497	41224
550	4.35591	5318	3.86179	4345	26.28541	33791	30.14721	38135
600	4.40909	4617	3.90524	4057	26.62332	31421	30.52856	35478
650	4.45526	4056	3.94581	3787	26.93753	29381	30.88334	33169
700	4.49582	3605	3.98368	3537	27.23134	27607	31.21503	31143
750	4.53187	3239	4.01905	3308	27.50741	26045	31.52646	29353
800	4.56426	2939	4.05213	3100	27.76786	24660	31.81999	27761
850	4.59365	2691	4.08313	2912	28.01446	23422	32.09760	26333
900	4.62056	2486	4.11225	2742	28.24868	22308	32.36093	25050
950	4.64542	2314	4.13967	2587	28.47176	21300	32.61143	23887
1000	4.66856	2167	4.16554	2447	28.68476	20383	32.85030	22831
1050	4.69023	2043	4.19001	2321	28.88859	19546	33.07861	21867
1100	4.71066	1935	4.21322	2205	29.08405	18778	33.29728	20983
1150	4.73001	1842	4.23527	2100	29.27183	18070	33.50711	20170

Table 2.060. HgT (Cont.)

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.74843	3452	4.25627	3921	29.45253	34226	33.70881	38146
1300	4.78295	3199	4.29548	3597	29.79479	31966	34.09027	35564
1400	4.81494	2997	4.33145	3324	30.11445	29999	34.44591	33323
1500	4.84491	2834	4.36469	3091	30.41444	28269	34.77914	31359
1600	4.87325	2697	4.39560	2890	30.69713	26736	35.09273	29626
1700	4.90022	2582	4.42450	2715	30.96449	25367	35.38899	28082
1800	4.92604	2484	4.45165	2562	31.21816	24138	35.66981	26701
1900	4.95088	2396	4.47727	2429	31.45954	23028	35.93682	25456
2000	4.97484	2320	4.50156	2309	31.68982	22019	36.19138	24329
2100	4.99804	2251	4.52465	2203	31.91001	21100	36.43467	23303
2200	5.02055	2189	4.54668	2108	32.12101	20258	36.66770	22366
2300	5.04244	2132	4.56776	2023	32.32359	19483	36.89136	21505
2400	5.06376	2080	4.58799	1944	32.51842	18769	37.10641	20714
2500	5.08456	2031	4.60743	1875	32.70611	18107	37.31355	19982
2600	5.10487	1986	4.62618	1810	32.88718	17494	37.51337	19303
2700	5.12473	1943	4.64428	1750	33.06212	16922	37.70640	18673
2800	5.14416	1903	4.66178	1697	33.23134	16388	37.89313	18084
2900	5.16319	1866	4.67875	1646	33.39522	15890	38.07397	17536
3000	5.18185	1824	4.69521	1595	33.55412	15404	38.24933	17019
3200	5.21809	1743	4.72676	1494	33.85816	14446	38.58492	16170
3400	5.25302	1672	4.75670	1401	34.14562	13527	38.90232	15321
3600	5.28674	1601	4.78521	1316	34.41832	12646	39.20354	14472
3800	5.31935	1536	4.81247	1234	34.67778	11802	39.49026	13623
4000	5.35091	1468	4.83861	1153	34.92530	11004	39.76391	12774
4200	5.38149	1396	4.86374	1071	35.16199	10252	40.02573	11925
4400	5.41115	1320	4.88795	997	35.38881	9546	40.27676	11076
4600	5.43995	1247	4.91132	922	35.60661	8886	40.51794	10227
4800	5.46792	1171	4.93394	846	35.81611	8272	40.75005	9378
5000	5.49511	1092	4.95584	769	36.01797	7704	40.97382	8529

Table 2.061. BH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50414	- 67	3.38456	1987	11.01480	61895	14.39937	63881
60	3.50347	- 30	3.40443	1412	11.63375	52591	15.03818	54004
70	3.50317	- 11	3.41855	1057	12.15966	45721	15.57822	46777
80	3.50306		3.42912	822	12.61687	40439	16.04599	41261
90	3.50306	7	3.43734	657	13.02126	36251	16.45860	36908
100	3.50313	12	3.44391	539	13.38377	32850	16.82768	33389
110	3.50325	15	3.44930	450	13.71227	30033	17.16157	30483
120	3.50340	17	3.45380	382	14.01260	27660	17.46640	28043
130	3.50357	18	3.45762	329	14.28920	25636	17.74683	25965
140	3.50375	20	3.46091	286	14.54556	23888	18.00648	24174
150	3.50395	21	3.46377	252	14.78444	22363	18.24822	22615
160	3.50416	21	3.46629	224	15.00807	21021	18.47437	21244
170	3.50437	22	3.46853	199	15.21828	19832	18.68681	20031
180	3.50459	22	3.47052	180	15.41660	18769	18.88712	18949
190	3.50481	24	3.47232	163	15.60429	17815	19.07661	17978
200	3.50505	25	3.47395	149	15.78244	16953	19.25639	17102
210	3.50530	26	3.47544	136	15.95197	16171	19.42741	16307
220	3.50556	29	3.47680	126	16.11368	15458	19.59048	15584
230	3.50585	33	3.47806	116	16.26826	14805	19.74632	14921
240	3.50618	37	3.47922	109	16.41631	14205	19.89553	14314
250	3.50655	44	3.48031	102	16.55836	13652	20.03867	13754
260	3.50699	51	3.48133	96	16.69488	13140	20.17621	13236
270	3.50750	60	3.48229	91	16.82628	12666	20.30857	12757
280	3.50810	71	3.48320	87	16.95294	12225	20.43614	12312
290	3.50881	85	3.48407	84	17.07519	11813	20.55926	11897
300	3.50966	100	3.48491	81	17.19332	11428	20.67823	11509
310	3.51066	118	3.48572	80	17.30760	11068	20.79332	11148
320	3.51184	137	3.48652	79	17.41828	10730	20.90480	10809
330	3.51321	157	3.48731	78	17.52558	10412	21.01289	10490
340	3.51478	180	3.48809	79	17.62970	10112	21.11779	10191
350	3.51658	205	3.48888	80	17.73082	9829	21.21970	9909
360	3.51863	231	3.48968	81	17.82911	9563	21.31879	9644
370	3.52094	257	3.49049	83	17.92474	9310	21.41523	9393
380	3.52351	285	3.49132	86	18.01784	9070	21.50916	9156
390	3.52636	314	3.49218	90	18.10854	8842	21.60072	8932
400	3.52950	2014	3.49308	509	18.19696	41171	21.69004	41681
450	3.54964	2737	3.49817	646	18.60867	36889	22.10685	37535
500	3.57701	3368	3.50463	807	18.97756	33439	22.48220	34246
550	3.61069	3857	3.51270	974	19.31195	30605	22.82466	31579
600	3.64926	4192	3.52244	1135	19.61800	28239	23.14045	29374
650	3.69118	4386	3.53379	1280	19.90039	26234	23.43419	27514
700	3.73504	4460	3.54659	1405	20.16273	24516	23.70933	25921
750	3.77964	4440	3.56064	1508	20.40789	23028	23.96854	24535
800	3.82404	4350	3.57572	1589	20.63817	21725	24.21389	23315
850	3.86754	4213	3.59161	1651	20.85542	20575	24.44704	22226
900	3.90967	4044	3.60812	1694	21.06117	19554	24.66930	21248
950	3.95011	3856	3.62506	1723	21.25671	18638	24.88178	20360
1000	3.98867	3659	3.64229	1737	21.44309	17813	25.08538	19550
1050	4.02526	3461	3.65966	1741	21.62122	17064	25.28088	18806
1100	4.05987	3266	3.67707	1736	21.79186	16384	25.46894	18120
1150	4.09253	3076	3.69443	1724	21.95570	15760	25.65014	17483

Table 2.061. BH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.12329	5621	3.71167	3387	22.11330	29844	25.82497	33231
1300	4.17950	4978	3.74554	3281	22.41174	27878	26.15728	31159
1400	4.22928	4418	3.77835	3156	22.69052	26176	26.46887	29333
1500	4.27346	3934	3.80991	3023	22.95228	24686	26.76220	27708
1600	4.31280	3519	3.84014	2885	23.19914	23368	27.03928	26254
1700	4.34799	3165	3.86899	2751	23.43282	22193	27.30182	24943
1800	4.37964	2862	3.89650	2619	23.65475	21138	27.55125	23758
1900	4.40826	2601	3.92269	2494	23.86613	20185	27.78883	22679
2000	4.43427	2378	3.94763	2375	24.06798	19318	28.01562	21693
2100	4.45805	2186	3.97138	2262	24.26116	18528	28.23255	20790
2200	4.47991	2019	3.99400	2158	24.44644	17802	28.44045	19959
2300	4.50010	1875	4.01558	2058	24.62446	17134	28.64004	19192
2400	4.51885	1749	4.03616	1966	24.79580	16516	28.83196	18483
2500	4.53634	1640	4.05582	1880	24.96096	15945	29.01679	17824
2600	4.55274	1542	4.07462	1800	25.12041	15411	29.19503	17212
2700	4.56816	1458	4.09262	1724	25.27452	14916	29.36715	16640
2800	4.58274	1383	4.10986	1655	25.42368	14451	29.53355	16105
2900	4.59657	1316	4.12641	1589	25.56819	14016	29.69460	15606
3000	4.60973	2460	4.14230	3000	25.70835	26831	29.85066	29830
3200	4.63433	2269	4.17230	2785	25.97666	25379	30.14896	28164
3400	4.65702	2115	4.20015	2598	26.23045	24082	30.43060	26680
3600	4.67817	1987	4.22613	2432	26.47127	22915	30.69740	25347
3800	4.69804	1882	4.25045	2285	26.70042	21861	30.95087	24146
4000	4.71686	1793	4.27330	2155	26.91903	20902	31.19233	23058
4200	4.73479	1717	4.29485	2039	27.12805	20027	31.42291	22066
4400	4.75196	1653	4.31524	1935	27.32832	19225	31.64357	21160
4600	4.76849	1598	4.33459	1842	27.52057	18487	31.85517	20328
4800	4.78447	1549	4.35301	1757	27.70544	17806	32.05845	19563
5000	4.79996		4.37058		27.88350		32.25408	

Table 2. 062. BD

$^{\circ}\text{K}$	$\frac{\text{C}_p}{R}$		$\frac{(\text{H}^{\circ} - \text{E}_0^{\circ})}{RT}$		$\frac{-(\text{F}^{\circ} - \text{E}_0^{\circ})}{RT}$		$\frac{\text{S}^{\circ}}{R}$	
50	3.50204	- 3	3.43803	1066	11.69143	62783	15.12946	63850
60	3.50201	8	3.44869	762	12.31926	53222	15.76796	53984
70	3.50209	14	3.45631	573	12.85148	45192	16.30780	46765
80	3.50223	17	3.46204	448	13.31340	40804	16.77545	41251
90	3.50240	19	3.46652	360	13.72144	36543	17.18796	36903
100	3.50259	21	3.47012	296	14.08687	33088	17.55699	33384
110	3.50280	21	3.47308	248	14.41775	30230	17.89083	30479
120	3.50301	22	3.47556	212	14.72005	27828	18.19562	28040
130	3.50323	22	3.47768	184	14.99833	25780	18.47602	25963
140	3.50345	24	3.47952	160	15.25613	24011	18.73565	24172
150	3.50369	26	3.48112	142	15.49624	22472	18.97737	22613
160	3.50395	28	3.48254	127	15.72096	21116	19.20350	21243
170	3.50423	33	3.48381	114	15.93212	19917	19.41593	20031
180	3.50456	40	3.48495	104	16.13129	18845	19.61624	18949
190	3.50496	51	3.48599	96	16.31974	17883	19.80573	17980
200	3.50547	64	3.48695	90	16.49857	17015	19.98553	17104
210	3.50611	82	3.48785	85	16.66872	16228	20.15657	16313
220	3.50693	105	3.48870	81	16.83100	15509	20.31970	15591
230	3.50798	131	3.48951	80	16.98609	14853	20.47561	14932
240	3.50929	163	3.49031	79	17.13462	14250	20.62493	14329
250	3.51092	198	3.49110	80	17.27712	13694	20.76822	13774
260	3.51290	238	3.49190	82	17.41406	13180	20.90596	13262
270	3.51528	280	3.49272	85	17.54586	12704	21.03858	12789
280	3.51808	326	3.49357	90	17.67290	12261	21.16647	12351
290	3.52134	374	3.49447	96	17.79551	11848	21.28998	11944
300	3.52508	423	3.49543	102	17.91399	11463	21.40942	11566
310	3.52931	474	3.49645	110	18.02862	11103	21.52508	11212
320	3.53405	525	3.49755	119	18.13965	10764	21.63720	10883
330	3.53930	576	3.49874	127	18.24729	10447	21.74603	10574
340	3.54506	626	3.50001	138	18.35176	10147	21.85177	10286
350	3.55132	675	3.50139	148	18.45323	9866	21.95463	10013
360	3.55807	722	3.50287	159	18.55189	9600	22.05476	9759
370	3.56529	769	3.50446	170	18.64789	9348	22.15235	9518
380	3.57298	811	3.50616	181	18.74137	9110	22.24753	9291
390	3.58109	853	3.50797	194	18.83247	8883	22.34044	9078
400	3.58962	4784	3.50991	1144	18.92130	41404	22.43122	42548
450	3.63746	5399	3.52135	1427	19.33534	37173	22.85670	38600
500	3.69145	5693	3.53562	1674	19.70707	33775	23.24270	35449
550	3.74838	5735	3.55236	1873	20.04482	30989	23.59719	32861
600	3.80573	5601	3.57109	2022	20.35471	28663	23.92580	30685
650	3.86174	5353	3.59131	2124	20.64134	26691	24.23265	28816
700	3.91527	5042	3.61255	2188	20.90825	24999	24.52081	27187
750	3.96569	4704	3.63443	2220	21.15824	23527	24.79268	25746
800	4.01273	4360	3.65663	2224	21.39351	22235	25.05014	24459
850	4.05633	4025	3.67887	2211	21.61586	21090	25.29473	23301
900	4.09658	3707	3.70098	2181	21.82676	20069	25.52774	22250
950	4.13365	3411	3.72279	2140	22.02745	19150	25.75024	21291
1000	4.16776	3140	3.74419	2093	22.21895	18319	25.96315	20411
1050	4.19916	2891	3.76512	2040	22.40214	17562	26.16726	19603
1100	4.22807	2666	3.78552	1983	22.57776	16872	26.36329	18854
1150	4.25473	2462	3.80535	1924	22.74648	16236	26.55183	18160

Table 2. 062. BD (Cont.)

$^{\circ}\text{K}$	$\frac{\text{C}_p^{\circ}}{\text{R}}$		$\frac{(\text{H}^{\circ} - \text{E}_0^{\circ})}{\text{RT}}$		$\frac{-(\text{F}^{\circ} - \text{E}_0^{\circ})}{\text{RT}}$		$\frac{\text{S}^{\circ}}{\text{R}}$	
1200	4.27935	4389	3.82459	3671	22.90884	30760	26.73343	34431
1300	4.32324	3790	3.86130	3438	23.21644	28742	27.07774	32181
1400	4.36114	3302	3.89568	3216	23.50386	26989	27.39955	30204
1500	4.39416	2904	3.92784	3007	23.77375	25446	27.70159	28454
1600	4.42320	2577	3.95791	2814	24.02821	24081	27.98613	26894
1700	4.44897	2308	3.98605	2637	24.26902	22859	28.25507	25496
1800	4.47205	2084	4.01242	2475	24.49761	21761	28.51003	24236
1900	4.49289	1898	4.03717	2327	24.71522	20767	28.75239	23095
2000	4.51187	1741	4.06044	2192	24.92289	19865	28.98334	22056
2100	4.52928	1608	4.08236	2068	25.12154	19039	29.20390	21108
2200	4.54536	1494	4.10304	1956	25.31193	18283	29.41498	20238
2300	4.56030	1398	4.12260	1853	25.49476	17585	29.61736	19439
2400	4.57428	1315	4.14113	1759	25.67061	16941	29.81175	18700
2500	4.58743	1242	4.15872	1673	25.84002	16343	29.99875	18016
2600	4.59985	1179	4.17545	1594	26.00345	15789	30.17891	17383
2700	4.61164	1125	4.19139	1521	26.16134	15271	30.35274	16792
2800	4.62289	1076	4.20660	1454	26.31405	14787	30.52066	16241
2900	4.63365	1034	4.22114	1393	26.46192	14334	30.68307	15726
3000	4.64399	1958	4.23507	2617	26.60526	27417	30.84033	30035
3200	4.66357	1837	4.26124	2422	26.87943	25907	31.14068	28328
3400	4.68194	1739	4.28546	2251	27.13850	24560	31.42396	26811
3600	4.69933	1659	4.30797	2104	27.38410	23349	31.69207	25453
3800	4.71592	1592	4.32901	1974	27.61759	22255	31.94660	24230
4000	4.73184	1537	4.34875	1861	27.84014	21264	32.18890	23124
4200	4.74721	1488	4.36736	1761	28.05278	20358	32.42014	22119
4400	4.76209	1447	4.38497	1671	28.25636	19529	32.64133	21200
4600	4.77656	1411	4.40168	1592	28.45165	18767	32.85333	20359
4800	4.79067	1380	4.41760	1520	28.63932	18065	33.05692	19585
5000	4.80447		4.43280		28.81997		33.25277	

Table 2. 063. BT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50163	11	3.45559	768	12.11258	63075	15.56817	63844
60	3.50174	16	3.46327	551	12.74333	53430	16.20661	53980
70	3.50190	19	3.46878	415	13.27763	46347	16.74641	46763
80	3.50209	21	3.47293	325	13.74110	40925	17.21404	41250
90	3.50230	21	3.47618	263	14.15035	36640	17.62654	36902
100	3.50251	23	3.47881	216	14.51675	33167	17.99556	33383
110	3.50274	23	3.48097	182	14.84842	30296	18.32939	30479
120	3.50297	26	3.48279	157	15.15138	27884	18.63418	28040
130	3.50323	28	3.48436	135	15.43022	25827	18.91458	25963
140	3.50351	35	3.48571	120	15.68849	24053	19.17421	24172
150	3.50386	44	3.48691	107	15.92902	22507	19.41593	22615
160	3.50430	60	3.48798	98	16.15409	21149	19.64208	21247
170	3.50490	82	3.48896	91	16.36558	19945	19.85455	20035
180	3.50572	111	3.48987	86	16.56503	18871	20.05490	18958
190	3.50683	147	3.49073	84	16.75374	17907	20.24448	17991
200	3.50830	192	3.49157	84	16.93281	17038	20.42439	17121
210	3.51022	244	3.49241	86	17.10319	16249	20.59560	16335
220	3.51266	301	3.49327	91	17.26568	15530	20.75895	15621
230	3.51567	365	3.49418	97	17.42098	14873	20.91516	14970
240	3.51932	433	3.49515	105	17.56971	14270	21.06486	14375
250	3.52365	503	3.49620	115	17.71241	13715	21.20861	13830
260	3.52868	576	3.49735	127	17.84956	13201	21.34691	13328
270	3.53444	648	3.49862	139	17.98157	12726	21.48019	12865
280	3.54092	721	3.50001	153	18.10883	12285	21.60884	12438
290	3.54813	791	3.50154	168	18.23168	11873	21.73322	12042
300	3.55604	859	3.50322	184	18.35041	11490	21.85364	11674
310	3.56463	924	3.50506	201	18.46531	11132	21.97038	11332
320	3.57387	984	3.50707	217	18.57663	10795	22.08370	11012
330	3.58371	1042	3.50924	234	18.68458	10479	22.19382	10714
340	3.59413	1093	3.51158	252	18.78937	10183	22.30096	10434
350	3.60506	1140	3.51410	268	18.89120	9903	22.40530	10172
360	3.61646	1183	3.51678	285	18.99023	9640	22.50702	9925
370	3.62829	1220	3.51963	302	19.08663	9390	22.60627	9692
380	3.64049	1254	3.52265	318	19.18053	9154	22.70319	9472
390	3.65303	1281	3.52583	334	19.27207	8931	22.79791	9265
400	3.66584	6679	3.52917	1887	19.36138	41674	22.89056	43560
450	3.73263	6808	3.54804	2187	19.77812	37493	23.32616	39680
500	3.80071	6618	3.56991	2401	20.15305	34136	23.72296	36537
550	3.86689	6241	3.59392	2538	20.49441	31379	24.08833	33917
600	3.92930	5776	3.61930	2610	20.80820	29073	24.42750	31683
650	3.98706	5282	3.64540	2632	21.09893	27111	24.74433	29744
700	4.03988	4796	3.67172	2617	21.37004	25422	25.04177	28038
750	4.08784	4340	3.69789	2575	21.62426	23948	25.32215	26523
800	4.13124	3921	3.72364	2515	21.86374	22651	25.58738	25166
850	4.17045	3544	3.74879	2442	22.09025	21497	25.83904	23939
900	4.20589	3207	3.77321	2363	22.30522	20464	26.07843	22828
950	4.23796	2908	3.79684	2280	22.50986	19534	26.30671	21813
1000	4.26704	2642	3.81964	2194	22.70520	18689	26.52484	20884
1050	4.29346	2410	3.84158	2110	22.89209	17920	26.73368	20029
1100	4.31756	2203	3.86268	2026	23.07129	17215	26.93397	19242
1150	4.33959	2021	3.88294	1946	23.24344	16568	27.12639	18513

Table 2.063. BT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.35980	3578	3.90240	3657	23.40912	31382	27.31152	35042
1300	4.39558	3070	3.93899	3374	23.72294	29316	27.66194	32690
1400	4.42628	2669	3.97273	3115	24.01610	27517	27.98884	30631
1500	4.45297	2348	4.00388	2881	24.29127	25933	28.29515	28815
1600	4.47645	2090	4.03269	2673	24.55060	24530	28.58330	27203
1700	4.49735	1880	4.05942	2486	24.79590	23274	28.85533	25760
1800	4.51615	1708	4.08428	2319	25.02864	22145	29.11293	24464
1900	4.53323	1565	4.10747	2168	25.25009	21125	29.35757	23293
2000	4.54888	1446	4.12915	2034	25.46134	20196	29.59050	22229
2100	4.56334	1346	4.14949	1912	25.66330	19348	29.81279	21260
2200	4.57680	1262	4.16861	1802	25.85678	18570	30.02539	20373
2300	4.58942	1190	4.18663	1704	26.04248	17855	30.22912	19558
2400	4.60132	1127	4.20367	1613	26.22103	17193	30.42470	18806
2500	4.61259	1075	4.21980	1532	26.39296	16580	30.61276	18113
2600	4.62334	1028	4.23512	1457	26.55876	16011	30.79389	17468
2700	4.63362	988	4.24969	1389	26.71887	15481	30.96857	16869
2800	4.64350	952	4.26358	1326	26.87368	14985	31.13726	16311
2900	4.65302	921	4.27684	1270	27.02353	14520	31.30037	15790
3000	4.66223	1761	4.28954	2384	27.16873	27762	31.45827	30146
3200	4.67984	1672	4.31338	2206	27.44635	26216	31.75973	28422
3400	4.69656	1600	4.33544	2051	27.70851	24840	32.04395	26891
3600	4.71256	1540	4.35595	1917	27.95691	23603	32.31286	25521
3800	4.72796	1491	4.37512	1802	28.19294	22488	32.56807	24289
4000	4.74287	1448	4.39314	1700	28.41782	21476	32.81096	23176
4200	4.75735	1413	4.41014	1610	28.63258	20553	33.04272	22164
4400	4.77148	1380	4.42624	1532	28.83811	19710	33.26436	21241
4600	4.78528	1353	4.44156	1460	29.03521	18934	33.47677	20394
4800	4.79881	1328	4.45616	1397	29.22455	18219	33.68071	19617
5000	4.81209		4.47013		29.40674		33.87688	

Table 2. 064. AIH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50210	1	3.43946	1044	12.88285	62807	16.32231	63851
60	3.50211	10	3.44990	746	13.51092	53239	16.96082	53986
70	3.50221	17	3.45736	562	14.04331	46205	17.50068	46767
80	3.50238	19	3.46298	439	14.50536	40814	17.96835	41253
90	3.50257	21	3.46737	353	14.91350	36552	18.38088	36904
100	3.50278	23	3.47090	291	15.27902	33095	18.74992	33386
110	3.50301	23	3.47381	244	15.60997	30237	19.08378	30482
120	3.50324	24	3.47625	209	15.91234	27833	19.38860	28041
130	3.50348	26	3.47834	180	16.19067	25784	19.66901	25965
140	3.50374	27	3.48014	158	16.44851	24016	19.92866	24174
150	3.50401	31	3.48172	141	16.68867	22476	20.17040	22616
160	3.50432	35	3.48313	125	16.91343	21120	20.39656	21245
170	3.50467	44	3.48438	114	17.12463	19919	20.60901	20034
180	3.50511	56	3.48552	105	17.32382	18848	20.80935	18952
190	3.50567	73	3.48657	97	17.51230	17887	20.99887	17984
200	3.50640	94	3.48754	92	17.69117	17018	21.17871	17110
210	3.50734	121	3.48846	88	17.86135	16230	21.34981	16319
220	3.50855	153	3.48934	87	18.02365	15513	21.51300	15599
230	3.51008	191	3.49021	87	18.17878	14856	21.66899	14943
240	3.51199	233	3.49108	88	18.32734	14253	21.81842	14341
250	3.51432	280	3.49196	91	18.46987	13697	21.96183	13789
260	3.51712	330	3.49287	96	18.60684	13184	22.09972	13280
270	3.52042	384	3.49383	102	18.73868	12708	22.23252	12809
280	3.52426	440	3.49485	108	18.86576	12266	22.36061	12375
290	3.52866	496	3.49593	118	18.98842	11854	22.48436	11971
300	3.53362	555	3.49711	126	19.10696	11469	22.60407	11596
310	3.53917	612	3.49837	137	19.22165	11109	22.72003	11245
320	3.54529	669	3.49974	148	19.33274	10771	22.83248	10920
330	3.55198	724	3.50122	160	19.44045	10455	22.94168	10614
340	3.55922	779	3.50282	172	19.54500	10156	23.04782	10329
350	3.56701	829	3.50454	185	19.64656	9875	23.15111	10060
360	3.57530	878	3.50639	198	19.74531	9610	23.25171	9808
370	3.58408	924	3.50837	211	19.84141	9359	23.34979	9570
380	3.59332	966	3.51048	225	19.93500	9122	23.44549	9346
390	3.60298	1006	3.51273	238	20.02622	8896	23.53895	9135
400	3.61304	5497	3.51511	1387	20.11518	41479	23.63030	42866
450	3.66801	5988	3.52898	1687	20.52997	37267	24.05896	38954
500	3.72789	6137	3.54585	1934	20.90264	33884	24.44850	35818
550	3.78926	6044	3.56519	2120	21.24148	31111	24.80668	33231
600	3.84970	5794	3.58639	2251	21.55259	28795	25.13899	31045
650	3.90764	5457	3.60890	2331	21.84054	26830	25.44944	29161
700	3.96221	5078	3.63221	2371	22.10884	25140	25.74105	27512
750	4.01299	4690	3.65592	2380	22.36024	23671	26.01617	26051
800	4.05989	4313	3.67972	2365	22.59695	22379	26.27668	24744
850	4.10302	3957	3.70337	2332	22.82074	21234	26.52412	23566
900	4.14259	3625	3.72669	2286	23.03308	20211	26.75978	22496
950	4.17884	3323	3.74955	2231	23.23519	19290	26.98474	21521
1000	4.21207	3049	3.77186	2169	23.42809	18456	27.19995	20625
1050	4.24256	2802	3.79355	2106	23.61265	17696	27.40620	19802
1100	4.27058	2580	3.81461	2039	23.78961	17002	27.60422	19042
1150	4.29638	2380	3.83500	1973	23.95963	16363	27.79464	18336

Table 2. 064. AlH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.32018	4244	3.85473	3748	24.12326	31004	27.97800	34752
1300	4.36262	3669	3.89221	3494	24.43330	28974	28.32552	32468
1400	4.39931	3206	3.92715	3257	24.72304	27207	28.65020	30463
1500	4.43137	2830	3.95972	3038	24.99511	25654	28.95483	28692
1600	4.45967	2524	3.99010	2838	25.25165	24276	29.24175	27114
1700	4.48491	2273	4.01848	2655	25.49441	23045	29.51289	25700
1800	4.50764	2065	4.04503	2490	25.72486	21938	29.76989	24428
1900	4.52829	1892	4.06993	2340	25.94424	20936	30.01417	23276
2000	4.54721	1746	4.09333	2203	26.15360	20025	30.24693	22229
2100	4.56467	1624	4.11536	2080	26.35385	19193	30.46922	21273
2200	4.58091	1519	4.13616	1967	26.54578	18430	30.68195	20396
2300	4.59610	1430	4.15583	1865	26.73008	17727	30.88591	19592
2400	4.61040	1353	4.17448	1770	26.90735	17077	31.08183	18848
2500	4.62393	1286	4.19218	1686	27.07812	16475	31.27031	18161
2600	4.63679	1228	4.20904	1607	27.24287	15916	31.45192	17522
2700	4.64907	1177	4.22511	1535	27.40203	15393	31.62714	16929
2800	4.66084	1132	4.24046	1470	27.55596	14906	31.79643	16376
2900	4.67216	1093	4.25516	1408	27.70502	14450	31.96019	15857
3000	4.68309	2084	4.26924	2652	27.84952	27639	32.11876	30292
3200	4.70393	1971	4.29576	2460	28.12591	26118	32.42168	28577
3400	4.72364	1878	4.32036	2293	28.38709	24760	32.70745	27053
3600	4.74242	1803	4.34329	2148	28.63469	23541	32.97798	25690
3800	4.76045	1739	4.36477	2022	28.87010	22440	33.23488	24462
4000	4.77784	1685	4.38499	1911	29.09450	21441	33.47950	23352
4200	4.79469	1638	4.40410	1813	29.30891	20530	33.71302	22343
4400	4.81107	1597	4.42223	1726	29.51421	19696	33.93645	21421
4600	4.82704	1562	4.43949	1647	29.71117	18930	34.15066	20577
4800	4.84266	1530	4.45596	1578	29.90047	18222	34.35643	19800
5000	4.85796		4.47174		30.08269		34.55443	

Table 2.065. A1D

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50145	19	3.46896	543	13.55931	63298	17.02828	63841
60	3.50164	21	3.47439	391	14.19229	53589	17.66669	53979
70	3.50185	22	3.47830	296	14.72818	46466	18.20648	46763
80	3.50207	24	3.48126	232	15.19284	41018	18.67411	41249
90	3.50231	24	3.48358	189	15.60302	36713	19.08660	36902
100	3.50255	28	3.48547	156	15.97015	33228	19.45562	33384
110	3.50283	34	3.48703	133	16.30243	30347	19.78946	30480
120	3.50317	46	3.48836	116	16.60590	27926	20.09426	28043
130	3.50363	68	3.48952	103	16.88516	25864	20.37469	25967
140	3.50431	101	3.49055	95	17.14380	24086	20.63436	24180
150	3.50532	148	3.49150	91	17.38466	22536	20.87616	22627
160	3.50680	208	3.49241	90	17.61002	21176	21.10243	21266
170	3.50888	282	3.49331	94	17.82178	19970	21.31509	20064
180	3.51170	368	3.49425	101	18.02148	18895	21.51573	18996
190	3.51538	462	3.49526	112	18.21043	17931	21.70569	18043
200	3.52000	566	3.49638	125	18.38974	17062	21.88612	17188
210	3.52566	671	3.49763	143	18.56036	16274	22.05800	16416
220	3.53237	781	3.49906	161	18.72310	15557	22.22216	15719
230	3.54018	887	3.50067	183	18.87867	14903	22.37935	15085
240	3.54905	991	3.50250	205	19.02770	14302	22.53020	14508
250	3.55896	1089	3.50455	230	19.17072	13749	22.67528	13979
260	3.56985	1182	3.50685	255	19.30821	13240	22.81507	13495
270	3.58167	1267	3.50940	281	19.44061	12768	22.95002	13048
280	3.59434	1342	3.51221	306	19.56829	12330	23.08050	12637
290	3.60776	1411	3.51527	332	19.69159	11923	23.20687	12254
300	3.62187	1469	3.51859	356	19.81082	11543	23.32941	11900
310	3.63656	1519	3.52215	381	19.92625	11188	23.44841	11569
320	3.65175	1561	3.52596	405	20.03813	10857	23.56410	11261
330	3.66736	1595	3.53001	428	20.14670	10544	23.67671	10972
340	3.68331	1620	3.53429	448	20.25214	10251	23.78643	10700
350	3.69951	1640	3.53877	470	20.35465	9976	23.89343	10445
360	3.71591	1651	3.54347	488	20.45441	9715	23.99788	10204
370	3.73242	1658	3.54835	506	20.55156	9470	24.09992	9976
380	3.74900	1659	3.55341	523	20.64626	9237	24.19968	9759
390	3.76559	1655	3.55864	538	20.73863	9016	24.29727	9555
400	3.78214	8084	3.56402	2877	20.82879	42142	24.39282	45018
450	3.86298	7536	3.59279	3084	21.25021	38012	24.84300	41096
500	3.93834	6831	3.62363	3177	21.63033	34686	25.25396	37863
550	4.00665	6098	3.65540	3186	21.97719	31942	25.63259	35129
600	4.06763	5403	3.68726	3138	22.29661	29639	25.98388	32776
650	4.12166	4771	3.71864	3053	22.59300	27670	26.31164	30723
700	4.16937	4214	3.74917	2944	22.86970	25968	26.61887	28913
750	4.21151	3730	3.77861	2825	23.12938	24477	26.90800	27302
800	4.24881	3312	3.80686	2699	23.37415	23161	27.18102	25859
850	4.28193	2952	3.83385	2573	23.60576	21987	27.43961	24560
900	4.31145	2644	3.85958	2449	23.82563	20934	27.68521	23383
950	4.33789	2379	3.88407	2329	24.03497	19982	27.91904	22312
1000	4.36168	2150	3.90736	2216	24.23479	19119	28.14216	21334
1050	4.38318	1954	3.92952	2107	24.42598	18329	28.35550	20436
1100	4.40272	1783	3.95059	2005	24.60927	17605	28.55986	19611
1150	4.42055	1636	3.97064	1909	24.78532	16940	28.75597	18849

Table 2. 065. AID (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.43691	2901	3.98973	3555	24.95472	32078	28.94446	35632
1300	4.46592	2505	4.02528	3239	25.27550	29950	29.30078	33190
1400	4.49097	2197	4.05767	2963	25.57500	28098	29.63268	31061
1500	4.51294	1955	4.08730	2723	25.85598	26467	29.94329	29189
1600	4.53249	1762	4.11453	2511	26.12065	25021	30.23518	27532
1700	4.55011	1608	4.13964	2326	26.37086	23728	30.51050	26054
1800	4.56619	1480	4.16290	2162	26.60814	22566	30.77104	24728
1900	4.58099	1377	4.18452	2017	26.83380	21516	31.01832	23533
2000	4.59476	1291	4.20469	1888	27.04896	20561	31.25365	22449
2100	4.60767	1218	4.22357	1774	27.25457	19689	31.47814	21464
2200	4.61985	1157	4.24131	1671	27.45146	18891	31.69278	20562
2300	4.63142	1105	4.25802	1579	27.64037	18155	31.89840	19734
2400	4.64247	1060	4.27381	1496	27.82192	17478	32.09574	18973
2500	4.65307	1022	4.28877	1421	27.99670	16848	32.28547	18270
2600	4.66329	987	4.30298	1353	28.16518	16266	32.46817	17618
2700	4.67316	959	4.31651	1291	28.32784	15721	32.64435	17013
2800	4.68275	932	4.32942	1235	28.48505	15214	32.81448	16448
2900	4.69207	910	4.34177	1182	28.63719	14740	32.97896	15923
3000	4.70117	1760	4.35359	2228	28.78459	28169	33.13819	30397
3200	4.71877	1693	4.37587	2067	29.06628	26592	33.44216	28658
3400	4.73570	1639	4.39654	1930	29.33220	25185	33.72874	27116
3600	4.75209	1593	4.41584	1812	29.58405	23924	33.99990	25736
3800	4.76802	1554	4.43396	1709	29.82329	22787	34.25726	24496
4000	4.78356	1520	4.45105	1620	30.05116	21757	34.50222	23376
4200	4.79876	1491	4.46725	1541	30.26873	20817	34.73598	22359
4400	4.81367	1464	4.48266	1471	30.47690	19959	34.95957	21430
4600	4.82831	1441	4.49737	1409	30.67649	19171	35.17387	20579
4800	4.84272	1419	4.51146	1354	30.86820	18444	35.37966	19798
5000	4.85691		4.52500		31.05264		35.57764	

Table 2.066. $\Delta I T$

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50138	23	3.47878	378	13.96859	63462	17.44737	63840
60	3.50161	24	3.48256	274	14.60321	53705	18.08577	53980
70	3.50185	25	3.48530	208	15.14026	46554	18.62557	46762
80	3.50210	28	3.48738	165	15.60580	41086	19.09319	41250
90	3.50238	36	3.48903	136	16.01666	36767	19.50569	36904
100	3.50274	53	3.49039	114	16.38433	33273	19.87473	33387
110	3.50327	87	3.49153	101	16.71706	30385	20.20860	30485
120	3.50414	142	3.49254	95	17.02091	27959	20.51345	28054
130	3.50556	220	3.49349	93	17.30050	25893	20.79399	25986
140	3.50776	320	3.49442	99	17.55943	24112	21.05385	24212
150	3.51096	443	3.49541	110	17.80055	22562	21.29597	22672
160	3.51539	581	3.49651	128	18.02617	21202	21.52269	21329
170	3.52120	730	3.49779	150	18.23819	19997	21.73598	20147
180	3.52850	884	3.49929	176	18.43816	18924	21.93745	19100
190	3.53734	1038	3.50105	207	18.62740	17963	22.12845	18170
200	3.54772	1187	3.50312	240	18.80703	17097	22.31015	17338
210	3.55959	1326	3.50552	275	18.97800	16314	22.48353	16589
220	3.57285	1453	3.50827	312	19.14114	15602	22.64942	15914
230	3.58738	1568	3.51139	349	19.29716	14952	22.80856	15300
240	3.60306	1668	3.51488	386	19.44668	14356	22.96156	14742
250	3.61974	1752	3.51874	422	19.59024	13809	23.10898	14231
260	3.63726	1822	3.52296	457	19.72833	13304	23.25129	13761
270	3.65548	1876	3.52753	490	19.86137	12837	23.38890	13328
280	3.67424	1919	3.53243	522	19.98974	12405	23.52218	12927
290	3.69343	1947	3.53765	552	20.11379	12003	23.65145	12554
300	3.71290	1965	3.54317	579	20.23382	11627	23.77699	12206
310	3.73255	1972	3.54896	604	20.35009	11277	23.89905	11882
320	3.75227	1972	3.55500	628	20.46286	10949	24.01787	11576
330	3.77199	1961	3.56128	649	20.57235	10641	24.13363	11290
340	3.79160	1946	3.56777	667	20.67876	10352	24.24653	11019
350	3.81106	1924	3.57444	684	20.78228	10079	24.35672	10763
360	3.83030	1896	3.58128	699	20.88307	9822	24.46435	10521
370	3.84926	1866	3.58827	711	20.98129	9578	24.56956	10290
380	3.86792	1832	3.59538	723	21.07707	9349	24.67246	10071
390	3.88624	1795	3.60261	731	21.17056	9130	24.77317	9862
400	3.90419	8370	3.60992	3744	21.26186	42734	24.87179	46478
450	3.98789	7316	3.64736	3780	21.68920	38625	25.33657	42404
500	4.06105	6316	3.68516	3712	22.07545	35298	25.76061	39010
550	4.12421	5429	3.72228	3581	22.42843	32543	26.15071	36124
600	4.17850	4670	3.75809	3418	22.75386	30217	26.51195	33635
650	4.22520	4031	3.79227	3240	23.05603	28223	26.84830	31463
700	4.26551	3499	3.82467	3058	23.33826	26493	27.16293	29552
750	4.30050	3055	3.85525	2881	23.60319	24974	27.45845	27854
800	4.33105	2685	3.88406	2710	23.85293	23629	27.73699	26339
850	4.35790	2376	3.91116	2549	24.08922	22429	28.00038	24978
900	4.38166	2117	3.93665	2399	24.31351	21349	28.25016	23748
950	4.40283	1898	3.96064	2259	24.52700	20373	28.48764	22633
1000	4.42181	1714	3.98323	2130	24.73073	19487	28.71397	21616
1050	4.43895	1557	4.00453	2010	24.92560	18676	28.93013	20687
1100	4.45452	1423	4.02463	1901	25.11236	17932	29.13700	19833
1150	4.46875	1307	4.04364	1799	25.29168	17248	29.33533	19046

Table 2. 066. AlT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.48182	2329	4.06163	3324	25.46416	32644	29.52579	35968
1300	4.50511	2028	4.09487	3004	25.79060	30458	29.88547	33463
1400	4.52539	1796	4.12491	2731	26.09518	28554	30.22010	31284
1500	4.54335	1616	4.15222	2496	26.38072	26878	30.53294	29375
1600	4.55951	1473	4.17718	2293	26.64950	25394	30.82669	27686
1700	4.57424	1359	4.20011	2117	26.90344	24068	31.10355	26185
1800	4.58783	1267	4.22128	1963	27.14412	22877	31.36540	24840
1900	4.60050	1191	4.24091	1828	27.37289	21800	31.61380	23628
2000	4.61241	1127	4.25919	1709	27.59089	20822	31.85008	22531
2100	4.62368	1075	4.27628	1603	27.79911	19931	32.07539	21535
2200	4.63443	1031	4.29231	1510	27.99842	19113	32.29074	20623
2300	4.64474	993	4.30741	1427	28.18955	18363	32.49697	19789
2400	4.65467	960	4.32168	1351	28.37318	17670	32.69486	19021
2500	4.66427	932	4.33519	1284	28.54988	17028	32.88507	18312
2600	4.67359	907	4.34803	1222	28.72016	16433	33.06819	17655
2700	4.68266	885	4.36025	1168	28.88449	15878	33.24474	17046
2800	4.69151	867	4.37193	1117	29.04327	15361	33.41520	16478
2900	4.70018	850	4.38310	1071	29.19688	14878	33.57998	15949
3000	4.70868	1655	4.39381	2020	29.34566	28422	33.73947	30442
3200	4.72523	1605	4.41401	1878	29.62988	26817	34.04389	28695
3400	4.74128	1563	4.43279	1757	29.89805	25387	34.33084	27145
3600	4.75691	1529	4.45036	1654	30.15192	24107	34.60229	25761
3800	4.77220	1498	4.46690	1564	30.39299	22952	34.85990	24516
4000	4.78718	1472	4.48254	1486	30.62251	21907	35.10506	23393
4200	4.80190	1448	4.49740	1417	30.84158	20955	35.33899	22372
4400	4.81638	1426	4.51157	1356	31.05113	20085	35.56271	21441
4600	4.83064	1407	4.52513	1303	31.25198	19286	35.77712	20589
4800	4.84471	1389	4.53816	1254	31.44484	18552	35.98301	19805
5000	4.85860		4.55070		31.63036		36.18106	

Table 2. 067. InH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50158	18	3.45304	810	15.24193	63033	18.69498	63843
60	3.50176	20	3.46114	582	15.87226	53400	19.33341	53981
70	3.50196	22	3.46696	439	16.40626	46324	19.87322	46764
80	3.50218	23	3.47135	344	16.86950	40908	20.34086	41251
90	3.50241	23	3.47479	277	17.27858	36625	20.75337	36903
100	3.50264	25	3.47756	229	17.64483	33156	21.12240	33385
110	3.50289	25	3.47985	193	17.97639	30287	21.45625	30480
120	3.50314	27	3.48178	166	18.27926	27876	21.76105	28041
130	3.50341	31	3.48344	143	18.55802	25820	22.04146	25964
140	3.50372	37	3.48487	127	18.81622	24048	22.30110	24175
150	3.50409	49	3.48614	114	19.05670	22503	22.54285	22616
160	3.50458	65	3.48728	103	19.28173	21144	22.76901	21248
170	3.50523	89	3.48831	97	19.49317	19942	22.98149	20038
180	3.50612	121	3.48928	91	19.69259	18868	23.18187	18960
190	3.50733	160	3.49019	90	19.88127	17905	23.37147	17994
200	3.50893	207	3.49109	89	20.06032	17035	23.55141	17125
210	3.51100	262	3.49198	93	20.23067	16247	23.72266	16339
220	3.51362	323	3.49291	96	20.39314	15528	23.88605	15625
230	3.51685	389	3.49387	104	20.54842	14872	24.04230	14976
240	3.52074	460	3.49491	112	20.69714	14270	24.19206	14381
250	3.52534	533	3.49603	123	20.83984	13714	24.33587	13837
260	3.53067	608	3.49726	135	20.97698	13201	24.47424	13336
270	3.53675	683	3.49861	148	21.10899	12726	24.60760	12875
280	3.54358	756	3.50009	163	21.23625	12285	24.73635	12448
290	3.55114	829	3.50172	178	21.35910	11875	24.86083	12052
300	3.55943	897	3.50350	195	21.47785	11491	24.98135	11686
310	3.56840	963	3.50545	211	21.59276	11132	25.09821	11344
320	3.57803	1024	3.50756	229	21.70408	10797	25.21165	11026
330	3.58827	1081	3.50985	247	21.81205	10482	25.32191	10728
340	3.59908	1133	3.51232	264	21.91687	10185	25.42919	10449
350	3.61041	1180	3.51496	281	22.01872	9906	25.53368	10187
360	3.62221	1221	3.51777	299	22.11778	9642	25.63555	9941
370	3.63442	1259	3.52076	315	22.21420	9393	25.73496	9709
380	3.64701	1290	3.52391	333	22.30813	9158	25.83205	9490
390	3.65991	1318	3.52724	348	22.39971	8935	25.92695	9283
400	3.67309	6847	3.53072	1959	22.48906	41695	26.01978	43655
450	3.74156	6949	3.55031	2261	22.90601	37522	26.45633	39782
500	3.81105	6735	3.57292	2473	23.28123	34168	26.85415	36641
550	3.87840	6342	3.59765	2607	23.62291	31415	27.22056	34022
600	3.94182	5862	3.62372	2676	23.93706	29110	27.56078	31786
650	4.00044	5359	3.65048	2694	24.22816	27152	27.87864	29846
700	4.05403	4867	3.67742	2675	24.49968	25463	28.17710	28139
750	4.10270	4408	3.70417	2631	24.75431	23990	28.45849	26621
800	4.14678	3986	3.73048	2568	24.99421	22694	28.72470	25261
850	4.18664	3608	3.75616	2494	25.22115	21540	28.97731	24034
900	4.22272	3270	3.78110	2411	25.43655	20509	29.21765	22921
950	4.25542	2971	3.80521	2327	25.64164	19577	29.44686	21904
1000	4.28513	2707	3.82848	2240	25.83741	18734	29.66590	20973
1050	4.31220	2473	3.85088	2154	26.02475	17964	29.87563	20119
1100	4.33693	2268	3.87242	2069	26.20439	17260	30.07682	19329
1150	4.35961	2086	3.89311	1988	26.37699	16611	30.27011	18599

Table 2. 067. InH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.38047	3709	3.91299	3742	26.54310	31471	30.45610	35213
1300	4.41756	3203	3.95041	3454	26.85781	29404	30.80823	32857
1400	4.44959	2802	3.98495	3193	27.15185	27603	31.13680	30797
1500	4.47761	2483	4.01688	2959	27.42788	26020	31.44477	28979
1600	4.50244	2226	4.04647	2749	27.68808	24615	31.73456	27363
1700	4.52470	2015	4.07396	2561	27.93423	23360	32.00819	25921
1800	4.54485	1843	4.09957	2392	28.16783	22230	32.26740	24623
1900	4.56328	1701	4.12349	2242	28.39013	21208	32.51363	23450
2000	4.58029	1581	4.14591	2107	28.60221	20280	32.74813	22386
2100	4.59610	1481	4.16698	1984	28.80501	19431	32.97199	21416
2200	4.61091	1396	4.18682	1875	28.99932	18653	33.18615	20527
2300	4.62487	1324	4.20557	1775	29.18585	17936	33.39142	19712
2400	4.63811	1261	4.22332	1684	29.36521	17275	33.58854	18959
2500	4.65072	1206	4.24016	1603	29.53796	16662	33.77813	18264
2600	4.66278	1160	4.25619	1527	29.70458	16092	33.96077	17620
2700	4.67438	1119	4.27146	1459	29.86550	15561	34.13697	17020
2800	4.68557	1082	4.28605	1397	30.02111	15065	34.30717	16461
2900	4.69639	1049	4.30002	1339	30.17176	14600	34.47178	15939
3000	4.70688	2017	4.31341	2522	30.31776	27920	34.63117	30443
3200	4.72705	1924	4.33863	2342	30.59696	26374	34.93560	28715
3400	4.74629	1848	4.36205	2187	30.86070	24995	35.22275	27182
3600	4.76477	1785	4.38392	2051	31.11065	23758	35.49457	25810
3800	4.78262	1732	4.40443	1935	31.34823	22642	35.75267	24576
4000	4.79994	1685	4.42378	1831	31.57465	21628	35.99843	23460
4200	4.81679	1646	4.44209	1741	31.79093	20705	36.23303	22446
4400	4.83325	1610	4.45950	1660	31.99798	19861	36.45749	21520
4600	4.84935	1579	4.47610	1588	32.19659	19083	36.67269	20672
4800	4.86514	1551	4.49198	1524	32.38742	18369	36.87941	19892
5000	4.88065		4.50722		32.57111		37.07833	

Table 2. 068. InD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50137	23	3.47660	414	15.91570	63425	19.39230	63840
60	3.50160	24	3.48074	300	16.54995	53680	20.03070	53979
70	3.50184	24	3.48374	228	17.08675	46534	20.57049	46762
80	3.50208	27	3.48602	180	17.55209	41070	21.03811	41250
90	3.50235	32	3.48782	147	17.96279	36756	21.45061	36903
100	3.50267	44	3.48929	123	18.33035	33262	21.81964	33386
110	3.50311	69	3.49052	108	18.66297	30377	22.15350	30484
120	3.50380	111	3.49160	97	18.96674	27951	22.45834	28049
130	3.50491	174	3.49257	94	19.24625	25886	22.73883	25980
140	3.50665	257	3.49351	96	19.50511	24106	22.99863	24202
150	3.50922	361	3.49447	103	19.74617	22557	23.24065	22659
160	3.51283	482	3.49550	115	19.97174	21194	23.46724	21310
170	3.51765	615	3.49665	134	20.18368	19990	23.68034	20123
180	3.52380	757	3.49799	155	20.38358	18917	23.88157	19072
190	3.53137	900	3.49954	181	20.57275	17955	24.07229	18136
200	3.54037	1043	3.50135	210	20.75230	17088	24.25365	17298
210	3.55080	1179	3.50345	241	20.92318	16303	24.42663	16545
220	3.56259	1308	3.50586	275	21.08621	15591	24.59208	15865
230	3.57567	1425	3.50861	309	21.24212	14939	24.75073	15248
240	3.58992	1529	3.51170	343	21.39151	14342	24.90321	14685
250	3.60521	1621	3.51513	377	21.53493	13794	25.05006	14171
260	3.62142	1699	3.51890	411	21.67287	13288	25.19177	13699
270	3.63841	1763	3.52301	444	21.80575	12820	25.32876	13264
280	3.65604	1815	3.52745	474	21.93395	12387	25.46140	12861
290	3.67419	1854	3.53219	504	22.05782	11983	25.59001	12487
300	3.69273	1883	3.53723	532	22.17765	11607	25.71488	12140
310	3.71156	1900	3.54255	558	22.29372	11256	25.83628	11813
320	3.73056	1909	3.54813	582	22.40628	10927	25.95441	11509
330	3.74965	1910	3.55395	603	22.51555	10618	26.06950	11222
340	3.76875	1902	3.55998	624	22.62173	10329	26.18172	10952
350	3.78777	1889	3.56622	642	22.72502	10055	26.29124	10697
360	3.80666	1871	3.57264	658	22.82557	9798	26.39821	10456
370	3.82537	1847	3.57922	672	22.92355	9554	26.50277	10226
380	3.84384	1820	3.58594	684	23.01909	9323	26.60503	10008
390	3.86204	1789	3.59278	696	23.11232	9105	26.70511	9801
400	3.87993	8417	3.59974	3589	23.20337	42605	26.80312	46194
450	3.96410	7450	3.63563	3666	23.62942	38495	27.26506	42160
500	4.03860	6493	3.67229	3632	24.01437	35171	27.68666	38804
550	4.10353	5624	3.70861	3531	24.36608	32422	28.07470	35952
600	4.15977	4867	3.74392	3391	24.69030	30102	28.43422	33493
650	4.20844	4222	3.77783	3230	24.99132	28116	28.76915	31346
700	4.25066	3679	3.81013	3062	25.27248	26393	29.08261	29455
750	4.28745	3223	3.84075	2895	25.53641	24881	29.37716	27776
800	4.31968	2840	3.86970	2732	25.78522	23542	29.65492	26275
850	4.34808	2520	3.89702	2577	26.02064	22349	29.91767	24925
900	4.37328	2249	3.92279	2431	26.24413	21275	30.16692	23707
950	4.39577	2020	3.94710	2295	26.45688	20305	30.40399	22600
1000	4.41597	1827	3.97005	2168	26.65993	19423	30.62999	21590
1050	4.43424	1660	3.99173	2050	26.85416	18617	30.84589	20667
1100	4.45084	1519	4.01223	1940	27.04033	17878	31.05256	19819
1150	4.46603	1397	4.03163	1840	27.21911	17198	31.25075	19037

Table 2.068. InD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.48000	2491	4.05003	3405	27.39109	32554	31.44112	35960
1300	4.50491	2171	4.08408	3085	27.71663	30381	31.80072	33466
1400	4.52662	1923	4.11493	2810	28.02044	28488	32.13538	31298
1500	4.54585	1731	4.14303	2573	28.30532	26822	32.44836	29394
1600	4.56316	1578	4.16876	2367	28.57354	25345	32.74230	27712
1700	4.57894	1455	4.19243	2188	28.82699	24026	33.01942	26214
1800	4.59349	1356	4.21431	2032	29.06725	22840	33.28156	24873
1900	4.60705	1275	4.23463	1894	29.29565	21770	33.53029	23664
2000	4.61980	1206	4.25357	1773	29.51335	20797	33.76693	22569
2100	4.63186	1150	4.27130	1665	29.72132	19909	33.99262	21574
2200	4.64336	1102	4.28795	1570	29.92041	19095	34.20836	20665
2300	4.65438	1061	4.30365	1483	30.11136	18348	34.41501	19832
2400	4.66499	1025	4.31848	1407	30.29484	17658	34.61333	19064
2500	4.67524	995	4.33255	1337	30.47142	17019	34.80397	18356
2600	4.68519	968	4.34592	1275	30.64161	16425	34.98753	17701
2700	4.69487	945	4.35867	1217	30.80586	15874	35.16454	17091
2800	4.70432	924	4.37084	1166	30.96460	15358	35.33545	16524
2900	4.71356	906	4.38250	1119	31.11818	14877	35.50069	15995
3000	4.72262	1763	4.39369	2111	31.26695	28424	35.66064	30536
3200	4.74025	1708	4.41480	1965	31.55119	26824	35.96600	28789
3400	4.75733	1663	4.43445	1840	31.81943	25400	36.25389	27239
3600	4.77396	1624	4.45285	1733	32.07343	24122	36.52628	25856
3800	4.79020	1591	4.47018	1640	32.31465	22971	36.78484	24611
4000	4.80611	1561	4.48658	1559	32.54436	21928	37.03095	23487
4200	4.82172	1536	4.50217	1487	32.76364	20979	37.26582	22466
4400	4.83708	1511	4.51704	1425	32.97343	20111	37.49048	21535
4600	4.85219	1490	4.53129	1368	33.17454	19314	37.70583	20682
4800	4.86709	1470	4.54497	1318	33.36768	18580	37.91265	19899
5000	4.88179		4.55815		33.55348		38.11164	

Table 2. 069. InT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50132	24	3.48444	283	16.31289	63555	19.79733	63839
60	3.50156	26	3.48727	206	16.94844	53773	20.43572	53979
70	3.50182	30	3.48933	158	17.48617	46604	20.97551	46762
80	3.50212	45	3.49091	127	17.95221	41125	21.44313	41251
90	3.50257	80	3.49218	107	18.36346	36799	21.85564	36907
100	3.50337	146	3.49325	98	18.73145	33299	22.22471	33397
110	3.50483	248	3.49423	98	19.06444	30408	22.55868	30506
120	3.50731	388	3.49521	107	19.36852	27981	22.86374	28088
130	3.51119	560	3.49628	126	19.64833	25915	23.14462	26040
140	3.51679	755	3.49754	152	19.90748	24135	23.40502	24288
150	3.52434	964	3.49906	187	20.14883	22589	23.64790	22775
160	3.53398	1174	3.50093	228	20.37472	21230	23.87565	21459
170	3.54572	1379	3.50321	274	20.58702	20032	24.09024	20305
180	3.55951	1569	3.50595	322	20.78734	18964	24.29329	19286
190	3.57520	1739	3.50917	373	20.97698	18009	24.48615	18382
200	3.59259	1888	3.51290	424	21.15707	17149	24.66997	17574
210	3.61147	2011	3.51714	474	21.32856	16373	24.84571	16846
220	3.63158	2112	3.52188	522	21.49229	15667	25.01417	16190
230	3.65270	2189	3.52710	569	21.64896	15023	25.17607	15591
240	3.67459	2244	3.53279	612	21.79919	14434	25.33198	15046
250	3.69703	2280	3.53891	652	21.94353	13892	25.48244	14545
260	3.71983	2298	3.54543	688	22.08245	13393	25.62789	14081
270	3.74281	2301	3.55231	722	22.21638	12932	25.76870	13654
280	3.76582	2290	3.55953	751	22.34570	12504	25.90524	13254
290	3.78872	2268	3.56704	777	22.47074	12106	26.03778	12883
300	3.81140	2237	3.57481	799	22.59180	11735	26.16661	12534
310	3.83377	2199	3.58280	819	22.70915	11388	26.29195	12207
320	3.85576	2155	3.59099	835	22.82303	11062	26.41402	11898
330	3.87731	2105	3.59934	848	22.93365	10758	26.53300	11606
340	3.89836	2053	3.60782	860	23.04123	10471	26.64906	11330
350	3.91889	1997	3.61642	868	23.14594	10200	26.76236	11068
360	3.93886	1941	3.62510	874	23.24794	9944	26.87304	10819
370	3.95827	1882	3.63384	879	23.34738	9702	26.98123	10581
380	3.97709	1824	3.64263	881	23.44440	9474	27.08704	10354
390	3.99533	1766	3.65144	882	23.53914	9256	27.19058	10138
400	4.01299	7982	3.66026	4376	23.63170	43365	27.29196	47741
450	4.09281	6690	3.70402	4232	24.06535	39246	27.76937	43479
500	4.15971	5598	3.74634	4020	24.45781	35897	28.20416	39916
550	4.21569	4703	3.78654	3778	24.81678	33111	28.60332	36889
600	4.26272	3979	3.82432	3529	25.14789	30752	28.97221	34282
650	4.30251	3395	3.85961	3288	25.45541	28725	29.31503	32012
700	4.33646	2922	3.89249	3060	25.74266	26961	29.63515	30021
750	4.36568	2538	3.92309	2847	26.01227	25411	29.93536	28258
800	4.39106	2225	3.95156	2652	26.26638	24036	30.21794	26689
850	4.41331	1969	3.97808	2474	26.50674	22809	30.48483	25283
900	4.43300	1755	4.00282	2311	26.73483	21705	30.73766	24015
950	4.45055	1579	4.02593	2163	26.95188	20706	30.97781	22870
1000	4.46634	1430	4.04756	2029	27.15894	19798	31.20651	21826
1050	4.48064	1305	4.06785	1906	27.35692	18968	31.42477	20875
1100	4.49369	1199	4.08691	1795	27.54660	18207	31.63352	20002
1150	4.50568	1108	4.10486	1694	27.72867	17506	31.83354	19199

Table 2.069. InT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.51676	1994	4.12180	3116	27.90373	33118	32.02553	36234
1300	4.53670	1760	4.15296	2805	28.23491	30881	32.38787	33687
1400	4.55430	1582	4.18101	2543	28.54372	28934	32.72474	31476
1500	4.57012	1444	4.20644	2318	28.83306	27223	33.03950	29542
1600	4.58456	1334	4.22962	2128	29.10529	25706	33.33492	27834
1700	4.59790	1248	4.25090	1963	29.36235	24354	33.61326	26316
1800	4.61038	1177	4.27053	1820	29.60589	23139	33.87642	24959
1900	4.62215	1119	4.28873	1695	29.83728	22042	34.12601	23738
2000	4.63334	1071	4.30568	1586	30.05770	21046	34.36339	22632
2100	4.64405	1030	4.32154	1489	30.26816	20139	34.58971	21628
2200	4.65435	997	4.33643	1404	30.46955	19307	34.80599	20711
2300	4.66432	967	4.35047	1328	30.66262	18544	35.01310	19872
2400	4.67399	942	4.36375	1260	30.84806	17840	35.21182	19099
2500	4.68341	920	4.37635	1199	31.02646	17188	35.40281	18387
2600	4.69261	900	4.38834	1144	31.19834	16583	35.58668	17727
2700	4.70161	884	4.39978	1093	31.36417	16021	35.76395	17115
2800	4.71045	868	4.41071	1049	31.52438	15496	35.93510	16545
2900	4.71913	855	4.42120	1007	31.67934	15006	36.10055	16013
3000	4.72768	1674	4.43127	1905	31.82940	28660	36.26068	30565
3200	4.74442	1633	4.45032	1779	32.11600	27034	36.56633	28812
3400	4.76075	1598	4.46811	1670	32.38634	25587	36.85445	27257
3600	4.77673	1568	4.48481	1578	32.64221	24291	37.12702	25869
3800	4.79241	1542	4.50059	1498	32.88512	23123	37.38571	24621
4000	4.80783	1518	4.51557	1428	33.11635	22066	37.63192	23494
4200	4.82301	1497	4.52985	1366	33.33701	21105	37.86686	22472
4400	4.83798	1477	4.54351	1313	33.54806	20226	38.09158	21538
4600	4.85275	1459	4.55664	1264	33.75032	19420	38.30696	20684
4800	4.86734	1442	4.56928	1221	33.94452	18677	38.51380	19899
5000	4.88176		4.58149		34.13129		38.71279	

Table 2. 070. TIH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50246	26	3.45521	790	16.14416	63070	19.59937	63860
60	3.50272	32	3.46311	568	16.77486	53429	20.23797	53997
70	3.50304	35	3.46879	430	17.30915	46348	20.77794	46779
80	3.50339	36	3.47309	339	17.77263	40928	21.24573	41266
90	3.50375	38	3.47648	275	18.18191	36643	21.65839	36918
100	3.50413	39	3.47923	228	18.54834	33172	22.02757	33400
110	3.50452	41	3.48151	193	18.88006	30301	22.36157	30495
120	3.50493	44	3.48344	167	19.18307	27889	22.66652	28056
130	3.50537	51	3.48511	147	19.46196	25833	22.94708	25979
140	3.50588	62	3.48658	130	19.72029	24060	23.20687	24191
150	3.50650	81	3.48788	119	19.96089	22514	23.44878	22632
160	3.50731	107	3.48907	110	20.18603	21156	23.67510	21267
170	3.50838	143	3.49017	105	20.39759	19952	23.88777	20057
180	3.50981	188	3.49122	103	20.59711	18879	24.08834	18981
190	3.51169	242	3.49225	103	20.78590	17915	24.27815	18019
200	3.51411	305	3.49323	106	20.96505	17047	24.45834	17152
210	3.51716	376	3.49434	112	21.13552	16258	24.62986	16371
220	3.52092	451	3.49546	120	21.29810	15541	24.79357	15660
230	3.52543	533	3.49666	131	21.45351	14884	24.95017	15015
240	3.53076	616	3.49797	143	21.60235	14282	25.10032	14426
250	3.53692	703	3.49940	158	21.74517	13728	25.24458	13885
260	3.54392	784	3.50098	173	21.88245	13216	25.38343	13390
270	3.55176	866	3.50271	190	22.01461	12742	25.51733	12932
280	3.56042	944	3.50461	209	22.14203	12302	25.64665	12510
290	3.56986	1019	3.50670	227	22.26505	11892	25.77175	12120
300	3.58005	1090	3.50897	247	22.38397	11510	25.89295	11756
310	3.59095	1153	3.51144	266	22.49907	11152	26.01051	11419
320	3.60248	1213	3.51410	286	22.61059	10818	26.12470	11104
330	3.61461	1266	3.51696	306	22.71877	10504	26.23574	10809
340	3.62727	1312	3.52002	325	22.82381	10208	26.34383	10534
350	3.64039	1354	3.52327	344	22.92589	9930	26.44917	10274
360	3.65393	1389	3.52671	363	23.02519	9668	26.55191	10030
370	3.66782	1418	3.53034	380	23.12187	9420	26.65221	9800
380	3.68200	1442	3.53414	398	23.21607	9185	26.75021	9583
390	3.69642	1462	3.53812	414	23.30792	8963	26.84604	9377
400	3.71104	7439	3.54226	2287	23.39755	41851	26.93981	44138
450	3.78543	7343	3.56513	2573	23.81606	37693	27.38119	40266
500	3.85886	6968	3.59086	2756	24.19299	34353	27.78385	37110
550	3.92854	6452	3.61842	2857	24.53652	31606	28.15495	34463
600	3.99306	5889	3.64699	2892	24.85258	29306	28.49958	32198
650	4.05195	5332	3.67591	2880	25.14564	27347	28.82156	30227
700	4.10527	4807	3.70471	2833	25.41911	25657	29.12383	28490
750	4.15334	4329	3.73304	2765	25.67568	24181	29.40873	26946
800	4.19663	3901	3.76069	2681	25.91749	22880	29.67819	25561
850	4.23564	3522	3.78750	2589	26.14629	21723	29.93380	24311
900	4.27086	3188	3.81339	2493	26.36352	20685	30.17691	23178
950	4.30274	2896	3.83832	2396	26.57037	19749	30.40869	22145
1000	4.33170	2640	3.86228	2299	26.76786	18900	30.63014	21200
1050	4.35810	2415	3.88527	2205	26.95686	18126	30.84214	20330
1100	4.38225	2219	3.90732	2114	27.13812	17416	31.04544	19530
1150	4.40444	2046	3.92846	2026	27.31228	16762	31.24074	18789

Table 2.070. T1H (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.42490	3654	3.94872	3807	27.47990	31759	31.42863	35566
1300	4.46144	3180	3.98679	3536	27.79749	29676	31.78429	33181
1400	4.49324	2805	4.02185	3238	28.09425	27859	32.11610	31098
1500	4.52129	2508	4.05423	2999	28.37284	26263	32.42708	29261
1600	4.54637	2269	4.08422	2787	28.63547	24845	32.71969	27632
1700	4.56906	2075	4.11209	2597	28.88392	23578	32.99601	26175
1800	4.58981	1915	4.13806	2428	29.11970	22439	33.25776	24868
1900	4.60896	1783	4.16234	2279	29.34409	21409	33.50644	23687
2000	4.62679	1673	4.18513	2143	29.55818	20472	33.74331	22615
2100	4.64352	1580	4.20656	2022	29.76290	19616	33.96946	21639
2200	4.65932	1500	4.22678	1914	29.95906	18831	34.18585	20744
2300	4.67432	1433	4.24592	1815	30.14737	18109	34.39329	19925
2400	4.68865	1375	4.26407	1726	30.32846	17442	34.59254	19168
2500	4.70240	1324	4.28133	1645	30.50288	16824	34.78422	18469
2600	4.71564	1279	4.29778	1571	30.67112	16250	34.96891	17821
2700	4.72843	1241	4.31349	1505	30.83362	15715	35.14712	17219
2800	4.74084	1206	4.32854	1442	30.99077	15214	35.31931	16657
2900	4.75290	1175	4.34296	1386	31.14291	14747	35.48588	16133
3000	4.76465	1270	4.35682	2621	31.29038	28203	35.64721	30823
3200	4.78735	2179	4.38303	2443	31.57241	26646	35.95544	29089
3400	4.80914	2105	4.40746	2290	31.83887	25258	36.24633	27549
3600	4.83019	2040	4.43036	2158	32.09145	24012	36.52182	26170
3800	4.85059	1986	4.45194	2043	32.33157	22888	36.78352	24931
4000	4.87045	1938	4.47237	1942	32.56045	21868	37.03283	23810
4200	4.88983	1896	4.49179	1853	32.77913	20939	37.27093	22792
4400	4.90879	1857	4.51032	1773	32.98852	20089	37.49885	21861
4600	4.92736	1823	4.52805	1702	33.18941	19307	37.71746	21010
4800	4.94559	1792	4.54507	1638	33.38248	18588	37.92756	20225
5000	4.96351		4.56145		33.56836		38.12981	

Table 2. 071. TID

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50212	37	3.47798	406	16.81185	63449	20.28984	63854
60	3.50249	38	3.48204	295	17.44634	53699	20.92838	53994
70	3.50287	40	3.48499	226	17.98333	46551	21.46832	46777
80	3.50327	43	3.48725	180	18.44884	41085	21.93609	41266
90	3.50370	54	3.48905	149	18.85969	36769	22.48875	36917
100	3.50424	76	3.49054	128	19.22738	33274	22.71792	33403
110	3.50500	116	3.49182	114	19.56012	30388	23.05195	30502
120	3.50616	181	3.49296	108	19.86400	27963	23.35697	28071
130	3.50797	272	3.49404	109	20.14363	25898	23.63768	26006
140	3.51069	386	3.49513	116	20.40261	24118	23.89774	24234
150	3.51455	521	3.49629	129	20.64379	22568	24.14008	22698
160	3.51976	671	3.49758	150	20.86947	21209	24.36706	21358
170	3.52647	832	3.49908	174	21.08156	20005	24.58064	20179
180	3.53479	995	3.50082	205	21.28161	18933	24.78243	19138
190	3.54474	1155	3.50287	237	21.47094	17973	24.97381	18211
200	3.55629	1307	3.50524	274	21.65067	17109	25.15592	17382
210	3.56936	1448	3.50798	311	21.82176	16326	25.32974	16638
220	3.58384	1576	3.51109	350	21.98502	15615	25.49612	15965
230	3.59960	1688	3.51459	389	22.14117	14966	25.65577	15355
240	3.61648	1783	3.51848	428	22.29083	14372	25.80932	14799
250	3.63431	1863	3.52276	464	22.43455	13825	25.95731	14290
260	3.65294	1927	3.52740	501	22.57280	13322	26.10021	13822
270	3.67221	1976	3.53241	534	22.70602	12856	26.23843	13391
280	3.69197	2011	3.53775	567	22.83458	12424	26.37234	12990
290	3.71208	2033	3.54342	596	22.95882	12023	26.50224	12619
300	3.73241	2044	3.54938	623	23.07905	11649	26.62843	12272
310	3.75285	2046	3.55561	648	23.19554	11298	26.75115	11947
320	3.77331	2037	3.56209	671	23.30852	10972	26.87062	11643
330	3.79368	2022	3.56880	692	23.41824	10664	26.98705	11355
340	3.81390	2001	3.57572	709	23.52488	10375	27.10060	11084
350	3.83391	1973	3.58281	725	23.62863	10103	27.21144	10829
360	3.85364	1942	3.59006	738	23.72966	9847	27.31973	10585
370	3.87306	1906	3.59744	751	23.82813	9604	27.42558	10354
380	3.89212	1868	3.60495	760	23.92417	9373	27.52912	10134
390	3.91080	1827	3.61255	769	24.01790	9156	27.63046	9925
400	3.92907	8487	3.62024	3913	24.10946	42866	27.72971	46778
450	4.01394	7386	3.65937	3924	24.53812	38759	28.19749	42683
500	4.08780	6362	3.69861	3835	24.92571	35432	28.62432	39267
550	4.15142	5465	3.73696	3687	25.28003	32675	29.01699	36363
600	4.20607	4706	3.77383	3510	25.60678	30347	29.38062	33857
650	4.25313	4072	3.80893	3322	25.91025	28350	29.71919	31671
700	4.29385	3544	3.84215	3132	26.19375	26616	30.03590	29748
750	4.32929	3106	3.87347	2948	26.45991	25094	30.33338	28042
800	4.36035	2744	3.90295	2773	26.71085	23745	30.61380	26519
850	4.38779	2440	3.93068	2609	26.94830	22542	30.87899	25150
900	4.41219	2187	3.95677	2455	27.17372	21460	31.13049	23915
950	4.43406	1974	3.98132	2314	27.38832	20481	31.36964	22795
1000	4.45380	1794	4.00446	2183	27.59313	19591	31.59759	21774
1050	4.47174	1640	4.02629	2063	27.78904	18778	31.81533	20841
1100	4.48814	1510	4.04692	1951	27.97682	18033	32.02374	19985
1150	4.50324	1397	4.06643	1850	28.15715	17346	32.22359	19195

Table 2.071. TID (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.51721	2517	4.08493	3424	28.33061	32834	32.41554	36259
1300	4.54238	2222	4.11917	3104	28.65895	30642	32.77813	33746
1400	4.56460	1997	4.15021	2830	28.96537	28732	33.11559	31561
1500	4.58457	1820	4.17851	2596	29.25269	27051	33.43120	29647
1600	4.60277	1680	4.20447	2393	29.52320	25562	33.72767	27956
1700	4.61957	1568	4.22840	2217	29.77882	24233	34.00723	26449
1800	4.63525	1477	4.25057	2064	30.02115	23037	34.27172	25102
1900	4.65002	1401	4.27121	1929	30.25152	21959	34.52274	23887
2000	4.66403	1338	4.29050	1811	30.47111	20977	34.76161	22789
2100	4.67741	1286	4.30861	1706	30.68088	20084	34.98950	21789
2200	4.69027	1240	4.32567	1612	30.88172	19264	35.20739	20876
2300	4.70267	1202	4.34179	1529	31.07436	18511	35.41615	20040
2400	4.71469	1168	4.35708	1454	31.25947	17816	35.61655	19271
2500	4.72637	1139	4.37162	1386	31.43763	17173	35.80926	18559
2600	4.73776	1113	4.38548	1326	31.60936	16576	35.99485	17901
2700	4.74889	1090	4.39874	1270	31.77512	16021	36.17386	17291
2800	4.75979	1070	4.41144	1219	31.93533	15501	36.34677	16721
2900	4.77049	1051	4.42363	1174	32.09034	15017	36.51398	16191
3000	4.78100	2054	4.43537	2225	32.24051	28697	36.67589	30921
3200	4.80154	1998	4.45762	2082	32.52748	27087	36.98510	29170
3400	4.82152	1950	4.47844	1960	32.79835	25655	37.27680	27614
3600	4.84102	1908	4.49804	1856	33.05490	24369	37.55294	26226
3800	4.86010	1872	4.51660	1764	33.29859	23213	37.81520	24977
4000	4.87882	1838	4.53424	1685	33.53072	22164	38.06497	23848
4200	4.89720	1808	4.55109	1614	33.75236	21209	38.30345	22824
4400	4.91528	1780	4.56723	1552	33.96445	20336	38.53169	21888
4600	4.93308	1755	4.58275	1497	34.16781	19536	38.75057	21033
4800	4.95063	1730	4.59772	1446	34.36317	18799	38.96090	20244
5000	4.96793		4.61218		34.55116		39.16334	

Table 2.072. T1T

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50206	39	3.48556	278	17.20871	63575	20.69427	63853
60	3.50245	41	3.48834	204	17.84446	53789	21.33280	53994
70	3.50286	51	3.49038	159	18.38235	46619	21.87274	46778
80	3.50337	78	3.49197	131	18.84854	41137	22.34052	41268
90	3.50415	137	3.49328	115	19.25991	36811	22.75320	36926
100	3.50552	238	3.49443	111	19.62802	33311	23.12246	33421
110	3.50790	384	3.49554	118	19.96113	30420	23.45667	30538
120	3.51174	571	3.49672	136	20.26533	27994	23.76205	28130
130	3.51745	789	3.49808	165	20.54527	25930	24.04335	26095
140	3.52534	1023	3.49973	203	20.80457	24152	24.30430	24356
150	3.53557	1263	3.50176	250	21.04609	22608	24.54786	22857
160	3.54820	1493	3.50426	301	21.27217	21253	24.77643	21555
170	3.56313	1707	3.50727	357	21.48470	20057	24.99198	20413
180	3.58020	1896	3.51084	414	21.68527	18993	25.19611	19407
190	3.59916	2058	3.51498	472	21.87520	18041	25.39018	18513
200	3.61974	2191	3.51970	528	22.05561	17185	25.57531	17714
210	3.64165	2295	3.52498	582	22.22746	16412	25.75245	16993
220	3.66460	2372	3.53080	633	22.39158	15709	25.92238	16342
230	3.68832	2424	3.53713	681	22.54867	15068	26.08580	15749
240	3.71256	2452	3.54394	723	22.69935	14481	26.24329	15205
250	3.73708	2462	3.55117	762	22.84416	13943	26.39534	14705
260	3.76170	2455	3.55879	797	22.98359	13446	26.54239	14243
270	3.78625	2433	3.56676	828	23.11805	12986	26.68482	13814
280	3.81058	2401	3.57504	854	23.24791	12560	26.82296	13413
290	3.83459	2357	3.58358	876	23.37351	12164	26.95709	13040
300	3.85816	2308	3.59234	895	23.49515	11794	27.08749	12689
310	3.88124	2252	3.60129	910	23.61309	11448	27.21438	12358
320	3.90376	2192	3.61039	922	23.72757	11124	27.33796	12046
330	3.92568	2130	3.61961	932	23.83881	10819	27.45842	11751
340	3.94698	2064	3.62893	938	23.94700	10533	27.57593	11472
350	3.96762	1999	3.63831	943	24.05233	10263	27.69065	11205
360	3.98761	1932	3.64774	945	24.15496	10007	27.80270	10952
370	4.00693	1867	3.65719	945	24.25503	9766	27.91222	10711
380	4.02560	1802	3.66664	943	24.35269	9536	28.01933	10480
390	4.04362	1737	3.67607	941	24.44805	9319	28.12413	10260
400	4.06099	7782	3.68548	4618	24.54124	43677	28.22673	48295
450	4.13881	6448	3.73166	4404	24.97801	39547	28.70968	43951
500	4.20329	5357	3.77570	4138	25.37348	36183	29.14919	40321
550	4.25686	4482	3.81708	3857	25.73531	33380	29.55240	37237
600	4.30168	3787	3.85565	3581	26.06911	31005	29.92477	34585
650	4.33955	3232	3.89146	3319	26.37916	28962	30.27062	32281
700	4.37187	2788	3.92465	3077	26.66878	27184	30.59343	30261
750	4.39975	2430	3.95542	2854	26.94062	25619	30.89604	28474
800	4.42405	2140	3.98396	2653	27.19681	24234	31.18078	26886
850	4.44545	1903	4.01049	2471	27.43915	22994	31.44964	25465
900	4.46448	1708	4.03520	2305	27.66909	21879	31.70429	24185
950	4.48156	1546	4.05825	2155	27.88788	20872	31.94614	23027
1000	4.49702	1410	4.07980	2021	28.09660	19955	32.17641	21976
1050	4.51112	1296	4.10001	1899	28.29615	19117	32.39617	21016
1100	4.52408	1200	4.11900	1787	28.48732	18350	32.60633	20137
1150	4.53608	1118	4.13687	1687	28.67082	17642	32.80770	19329

Table 2.072. T1T (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.54726	2033	4.15374	3107	28.84724	33373	33.00099	36480
1300	4.56759	1820	4.18481	2800	29.18097	31117	33.36579	33917
1400	4.58579	1659	4.21281	2543	29.49214	29154	33.70496	31696
1500	4.60238	1534	4.23824	2324	29.78368	27428	34.02192	29753
1600	4.61772	1434	4.26148	2138	30.05796	25900	34.31945	28038
1700	4.63206	1354	4.28286	1978	30.31696	24537	34.59983	26515
1800	4.64560	1290	4.30264	1840	30.56233	23313	34.86498	25152
1900	4.65850	1236	4.32104	1718	30.79546	22208	35.11650	23927
2000	4.67086	1191	4.33822	1613	31.01754	21206	35.35577	22818
2100	4.68277	1154	4.35435	1519	31.22960	20292	35.58395	21811
2200	4.69431	1122	4.36954	1436	31.43252	19455	35.80206	20892
2300	4.70553	1094	4.38390	1363	31.62707	18687	36.01098	20050
2400	4.71647	1069	4.39753	1298	31.81394	17978	36.21148	19275
2500	4.72716	1048	4.41051	1238	31.99372	17323	36.40423	18561
2600	4.73764	1030	4.42289	1185	32.16695	16714	36.58984	17899
2700	4.74794	1012	4.43474	1136	32.33409	16149	36.76883	17286
2800	4.75806	998	4.44610	1093	32.49558	15621	36.94169	16714
2900	4.76804	983	4.45703	1053	32.65179	15128	37.10883	16181
3000	4.77787	1930	4.46756	2000	32.80307	28898	37.27064	30897
3200	4.79717	1888	4.48756	1877	33.09205	27262	37.57961	29140
3400	4.81605	1850	4.50633	1772	33.36467	25808	37.87101	27580
3600	4.83455	1816	4.52405	1683	33.62275	24506	38.14681	26188
3800	4.85271	1787	4.54088	1604	33.86781	23333	38.40869	24937
4000	4.87058	1760	4.55692	1535	34.10114	22271	38.65806	23806
4200	4.88818	1735	4.57227	1476	34.32385	21304	38.89612	22780
4400	4.90553	1711	4.58703	1422	34.53689	20422	39.12392	21844
4600	4.92264	1689	4.60125	1374	34.74111	19612	39.34236	20986
4800	4.93953	1668	4.61499	1332	34.93723	18866	39.55222	20198
5000	4.95621		4.62831		35.12589		39.75420	

Table 2.073. CH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.52178	358	3.29318	3851	12.42968	60403	15.72286	64254
60	3.52536	- 85	3.33169	2763	13.03371	51578	16.36540	54341
70	3.52451	- 207	3.35932	2053	13.54949	44998	16.90881	47051
80	3.52244	- 221	3.37985	1572	13.99947	39903	17.37932	41475
90	3.52023	- 202	3.39557	1236	14.39850	35843	17.79407	37079
100	3.51821	- 175	3.40793	995	14.75693	32528	18.16486	33523
110	3.51646	- 147	3.41788	815	15.08221	29776	18.50009	30591
120	3.51499	- 122	3.42603	679	15.37997	27451	18.80600	28130
130	3.51377	- 102	3.43282	574	15.65448	25461	19.08730	26035
140	3.51275	- 84	3.43856	493	15.90909	23741	19.34765	24234
150	3.51191	- 69	3.44349	424	16.14650	22238	19.58999	22662
160	3.51122	- 57	3.44773	373	16.36888	20913	19.81661	21286
170	3.51065	- 47	3.45146	327	16.57801	19738	20.02947	20065
180	3.51018	- 39	3.45473	291	16.77539	18687	20.23012	18978
190	3.50979	- 31	3.45764	259	16.96226	17742	20.41990	18001
200	3.50948	- 25	3.46023	234	17.13968	16889	20.59991	17123
210	3.50923	- 19	3.46257	212	17.30857	16112	20.77114	16324
220	3.50904	- 15	3.46469	193	17.46969	15405	20.93438	15598
230	3.50889	- 11	3.46662	176	17.62374	14758	21.09036	14934
240	3.50878	- 7	3.46838	161	17.77132	14162	21.23970	14323
250	3.50871	- 3	3.46999	148	17.91294	13613	21.38293	13761
260	3.50868	2	3.47147	138	18.04907	13104	21.52054	13242
270	3.50870	4	3.47285	128	18.18011	12632	21.65296	12760
280	3.50874	10	3.47413	120	18.30643	12192	21.78056	12312
290	3.50884	14	3.47533	111	18.42835	11785	21.90368	11896
300	3.50898	20	3.47644	106	18.54620	11401	22.02264	11507
310	3.50918	26	3.47750	100	18.66021	11042	22.13771	11142
320	3.50944	33	3.47850	95	18.77063	10705	22.24913	10800
330	3.50977	41	3.47945	89	18.87768	10389	22.35713	10478
340	3.51018	50	3.48034	86	18.98157	10090	22.46191	10176
350	3.51068	60	3.48120	83	19.08247	9808	22.56367	9891
360	3.51128	71	3.48203	79	19.18055	9541	22.66258	9620
370	3.51199	84	3.48282	78	19.27596	9290	22.75878	9368
380	3.51283	95	3.48360	77	19.36886	9049	22.85246	9126
390	3.51378	112	3.48437	75	19.45935	8823	22.94372	8898
400	3.51490	800	3.48512	371	19.54758	41070	23.03270	41441
450	3.52290	1274	3.48883	400	19.95828	36779	23.44711	37179
500	3.53564	1790	3.49283	467	20.32607	33311	23.81890	33778
550	3.55354	2289	3.49750	559	20.65918	30456	24.15668	31015
600	3.57643	2732	3.50309	666	20.96374	28065	24.46683	28731
650	3.60375	3096	3.50975	780	21.24439	26037	24.75414	26817
700	3.63471	3368	3.51755	892	21.50476	24299	25.02231	25191
750	3.66839	3558	3.52647	998	21.74775	22791	25.27422	23789
800	3.70397	3666	3.53645	1093	21.97566	21473	25.51211	22566
850	3.74063	3711	3.54738	1177	22.19039	20308	25.73777	21485
900	3.77774	3703	3.55915	1247	22.39347	19277	25.95262	20524
950	3.81477	3652	3.57162	1307	22.58624	18353	26.15786	19660
1000	3.85129	3570	3.58469	1356	22.76977	17522	26.35446	18878
1050	3.88699	3465	3.59825	1391	22.94499	16772	26.54324	18163
1100	3.92164	3345	3.61216	1419	23.11271	16088	26.72487	17507
1150	3.95509	3216	3.62635	1438	23.27359	15463	26.89994	16901

Table 2. 073. CH (Cont.)

$^{\circ}K$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.98725	6026	3.64073	2900	23.42822	29255	27.06895	32155
1300	4.04751	5487	3.66973	2899	23.72077	27303	27.39050	30202
1400	4.10238	4972	3.69872	2859	23.99380	25616	27.69252	28475
1500	4.15210	4499	3.72731	2797	24.24996	24146	27.97727	26943
1600	4.19709	4073	3.75528	2721	24.49142	22848	28.24670	25569
1700	4.23782	3692	3.78249	2633	24.71990	21695	28.50239	24328
1800	4.27474	3356	3.80882	2544	24.93685	20662	28.74567	23206
1900	4.30830	3061	3.83426	2447	25.14347	19729	28.97773	22176
2000	4.33891	2799	3.85873	2354	25.34076	18885	29.19949	21239
2100	4.36690	2571	3.88227	2262	25.52961	18112	29.41188	20374
2200	4.39261	2369	3.90489	2173	25.71073	17407	29.61562	19580
2300	4.41630	2193	3.92662	2086	25.88480	16756	29.81142	18842
2400	4.43823	2035	3.94748	2004	26.05236	16155	29.99984	18159
2500	4.45858	1899	3.96752	1926	26.21391	15599	30.18143	17525
2600	4.47757	1776	3.98678	1851	26.36990	15081	30.35668	16932
2700	4.49533	1666	4.00529	1780	26.52071	14599	30.52600	16379
2800	4.51199	1571	4.02309	1713	26.66670	14147	30.68979	15860
2900	4.52770	1485	4.04022	1650	26.80817	13725	30.84839	15375
3000	4.54255	2745	4.05672	3124	26.94542	26282	31.00214	29406
3200	4.57000	2495	4.08796	2911	27.20824	24872	31.29620	27783
3400	4.59495	2292	4.11707	2718	27.45696	23611	31.57403	26329
3600	4.61787	2124	4.14425	2550	27.69307	22475	31.83732	25025
3800	4.63911	1985	4.16975	2397	27.91782	21449	32.08757	23846
4000	4.65896	1866	4.19372	2260	28.13231	20517	32.32603	22777
4200	4.67762	1770	4.21632	2137	28.33748	19664	32.55380	21801
4400	4.69532	1684	4.23769	2028	28.53412	18882	32.77181	20910
4600	4.71216	1612	4.25797	1926	28.72294	18163	32.98091	20089
4800	4.72828	1549	4.27723	1835	28.90457	17498	33.18180	19333
5000	4.74377		4.29558		29.07955		33.37513	

Table 2. 074. CD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.59427	-2147	3.48637	1610	12.92815	63722	16.41452	65332
60	3.57280	-1522	3.50247	889	13.56537	54064	17.06784	54953
70	3.55758	-1094	3.51136	505	14.10601	46925	17.61737	47430
80	3.54664	-803	3.51641	290	14.57526	41435	18.09167	41725
90	3.53861	-601	3.51931	162	14.98961	37089	18.50892	37251
100	3.53260	-460	3.52093	84	15.36050	33561	18.88143	33645
110	3.52800	-356	3.52177	36	15.69611	30646	19.21788	30682
120	3.52444	-281	3.52213	7	16.00257	28192	19.52470	28199
130	3.52163	-224	3.52220	-12	16.28449	26103	19.80669	26091
140	3.51939	-180	3.52208	-25	16.54552	24300	20.06760	24275
150	3.51759	-147	3.52183	-31	16.78852	22728	20.31035	22697
160	3.51612	-118	3.52152	-35	17.01580	21348	20.53732	21313
170	3.51494	-98	3.52117	-37	17.22928	20124	20.75045	20087
180	3.51396	-79	3.52080	-39	17.43052	19037	20.95132	18998
190	3.51317	-62	3.52041	-37	17.62089	18056	21.14130	18019
200	3.51255	-47	3.52004	-38	17.80145	17174	21.32149	17136
210	3.51208	-33	3.51966	-35	17.97319	16373	21.49285	16338
220	3.51175	-19	3.51931	-32	18.13692	15641	21.65623	15609
230	3.51156	-3	3.51899	-32	18.29333	14976	21.81232	14944
240	3.51153	14	3.51867	-28	18.44309	14364	21.96176	14336
250	3.51167	33	3.51839	-25	18.58673	13800	22.10512	13775
260	3.51200	52	3.51814	-22	18.72473	13277	22.24287	13255
270	3.51252	76	3.51792	-18	18.85750	12792	22.37542	12774
280	3.51328	100	3.51774	-15	18.98542	12346	22.50316	12331
290	3.51428	130	3.51759	-8	19.10888	11924	22.62647	11916
300	3.51558	158	3.51751	-3	19.22812	11534	22.74563	11531
310	3.51716	189	3.51748	2	19.34346	11166	22.86094	11168
320	3.51905	222	3.51750	7	19.45512	10825	22.97262	10832
330	3.52127	258	3.51757	15	19.56337	10502	23.08094	10517
340	3.52385	293	3.51772	21	19.66839	10197	23.18611	10218
350	3.52678	330	3.51793	30	19.77036	9911	23.28829	9941
360	3.53008	367	3.51823	37	19.86947	9640	23.38770	9677
370	3.53375	406	3.51860	44	19.96587	9383	23.48447	9427
380	3.53781	443	3.51904	54	20.05970	9142	23.57874	9196
390	3.54224	481	3.51958	62	20.15112	8913	23.67070	8975
400	3.54705	2943	3.52020	455	20.24025	41485	23.76045	41940
450	3.57648	3726	3.52475	697	20.65510	37171	24.17985	37868
500	3.61374	4305	3.53172	938	21.02681	33703	24.55853	34641
550	3.65679	4672	3.54110	1157	21.36384	30860	24.90494	32017
600	3.70351	4849	3.55267	1346	21.67244	28489	25.22511	29835
650	3.75200	4876	3.56613	1503	21.95733	26481	25.52346	27984
700	3.80076	4791	3.58116	1624	22.22214	24762	25.80330	26386
750	3.84867	4631	3.59740	1716	22.46976	23272	26.06716	24988
800	3.89498	4425	3.61456	1781	22.70248	21966	26.31704	23747
850	3.93923	4190	3.63237	1823	22.92214	20813	26.55451	22636
900	3.98113	3944	3.65060	1843	23.13027	19788	26.78087	21631
950	4.02057	3697	3.66903	1852	23.32815	18867	26.99718	20719
1000	4.05754	3455	3.68755	1844	23.51682	18036	27.20437	19880
1050	4.09209	3225	3.70599	1829	23.69718	17282	27.40317	19111
1100	4.12434	3008	3.72428	1807	23.87000	16595	27.59428	18402
1150	4.15442	2803	3.74235	1775	24.03595	15966	27.77830	17741

Table 2. 074. CD (Cont.)

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.18245	5053	3.76010	3448	24.19561	30233	27.95571	33681
1300	4.23298	4406	3.79458	3292	24.49794	28242	28.29252	31534
1400	4.27704	3864	3.82750	3129	24.78036	26517	28.60786	29646
1500	4.31568	3407	3.85879	2965	25.04553	24999	28.90432	27964
1600	4.34975	3023	3.88844	2803	25.29552	23658	29.18396	26461
1700	4.37998	2703	3.91647	2653	25.53210	22461	29.44857	25114
1800	4.40701	2431	3.94300	2506	25.75671	21387	29.69971	23893
1900	4.43132	2202	3.96806	2372	25.97058	20415	29.93864	22787
2000	4.45334	2006	3.99178	2247	26.17473	19530	30.16651	21777
2100	4.47340	1840	4.01425	2128	26.37003	18724	30.38428	20852
2200	4.49180	1697	4.03553	2022	26.55727	17984	30.59280	20006
2300	4.50877	1575	4.05575	1920	26.73711	17302	30.79286	19222
2400	4.52452	1467	4.07495	1829	26.91013	16672	30.98508	18501
2500	4.53919	1376	4.09324	1743	27.07685	16088	31.17009	17831
2600	4.55295	1294	4.11067	1662	27.23773	15545	31.34840	17207
2700	4.56589	1224	4.12729	1587	27.39318	15040	31.52047	16627
2800	4.57813	1161	4.14316	1520	27.54358	14566	31.68674	16086
2900	4.58974	1106	4.15836	1457	27.68924	14121	31.84760	15578
3000	4.60080	2071	4.17293	2740	27.83045	27020	32.00338	29760
3200	4.62151	1914	4.20033	2535	28.10065	25541	32.30098	28076
3400	4.64065	1788	4.22568	2355	28.35606	24222	32.58174	26577
3600	4.65853	1686	4.24923	2199	28.59828	23034	32.84751	25233
3800	4.67539	1599	4.27122	2061	28.82862	21961	33.09984	24022
4000	4.69138	1528	4.29183	1940	29.04823	20987	33.34006	22927
4200	4.70666	1468	4.31123	1830	29.25810	20099	33.56933	21929
4400	4.72134	1417	4.32953	1735	29.45909	19284	33.78862	21019
4600	4.73551	1372	4.34688	1648	29.65193	18535	33.99881	20183
4800	4.74923	1333	4.36336	1570	29.83728	17845	34.20064	19415
5000	4.76256		4.37906		30.01573		34.39479	

Table 2. 075. CT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.61066	-2713	3.47237	2064	13.37350	63511	16.84587	65575
60	3.58353	-1849	3.49301	1153	14.00861	53940	17.50162	55093
70	3.56504	-1296	3.50454	671	14.54801	46844	18.05255	47515
80	3.55208	- 935	3.51125	398	15.01645	41381	18.52770	41779
90	3.54273	- 693	3.51523	239	15.43026	37052	18.94549	37291
100	3.53580	- 524	3.51762	140	15.80078	33532	19.31840	33672
110	3.53056	- 403	3.51902	79	16.13610	30624	19.65512	30703
120	3.52653	- 317	3.51981	39	16.44234	28175	19.96215	28214
130	3.52336	- 250	3.52020	13	16.72409	26088	20.24429	26101
140	3.52086	- 201	3.52033	- 3	16.98497	24289	20.50530	24286
150	3.51885	- 162	3.52030	- 14	17.22786	22718	20.74816	22704
160	3.51723	- 128	3.52016	- 21	17.45504	21341	20.97520	21320
170	3.51595	- 100	3.51995	- 25	17.66845	20119	21.18840	20094
180	3.51495	- 73	3.51970	- 27	17.86964	19029	21.38934	19002
190	3.51422	- 49	3.51943	- 28	18.05993	18051	21.57936	18023
200	3.51373	- 21	3.51915	- 26	18.24044	17170	21.75959	17144
210	3.51352	5	3.51889	- 25	18.41214	16369	21.93103	16344
220	3.51357	37	3.51864	- 21	18.57583	15641	22.09447	15620
230	3.51394	71	3.51843	- 18	18.73224	14975	22.25067	14957
240	3.51465	109	3.51825	- 11	18.88199	14360	22.40024	14349
250	3.51574	148	3.51814	- 7	19.02559	13800	22.54373	13793
260	3.51722	193	3.51807		19.16359	13277	22.68166	13277
270	3.51915	239	3.51807	8	19.29636	12794	22.81443	12802
280	3.52154	288	3.51815	17	19.42430	12346	22.94245	12363
290	3.52442	338	3.51832	25	19.54776	11927	23.06608	11952
300	3.52780	390	3.51857	36	19.66703	11538	23.18560	11574
310	3.53170	444	3.51893	47	19.78241	11173	23.30134	11220
320	3.53614	495	3.51940	58	19.89414	10831	23.41354	10889
330	3.54109	549	3.51998	70	20.00245	10509	23.52243	10579
340	3.54658	599	3.52068	83	20.10754	10207	23.62822	10290
350	3.55257	650	3.52151	95	20.20961	9922	23.73112	10017
360	3.55907	698	3.52246	108	20.30883	9652	23.83129	9760
370	3.56605	745	3.52354	121	20.40535	9398	23.92889	9519
380	3.57350	789	3.52475	136	20.49933	9157	24.02408	9293
390	3.58139	833	3.52611	148	20.59090	8931	24.11701	9079
400	3.58972	4690	3.52759	943	20.68021	41600	24.20780	42543
450	3.63662	5318	3.53702	1258	21.09621	37328	24.63323	38586
500	3.68980	5623	3.54960	1529	21.46949	33902	25.01909	35431
550	3.74603	5673	3.56489	1747	21.80851	31092	25.37340	32839
600	3.80276	5545	3.58236	1910	22.11943	28749	25.70179	30659
650	3.85821	5300	3.60146	2025	22.40692	26765	26.00838	28790
700	3.91121	4996	3.62171	2098	22.67457	25056	26.29628	27154
750	3.96117	4658	3.64269	2138	22.92513	23578	26.56782	25716
800	4.00775	4316	3.66407	2150	23.16091	22278	26.82498	24428
850	4.05091	3982	3.68557	2142	23.38369	21127	27.06926	23269
900	4.09073	3666	3.70699	2117	23.59496	20100	27.30195	22217
950	4.12739	3371	3.72816	2082	23.79596	19175	27.52412	21257
1000	4.16110	3100	3.74898	2037	23.98771	18341	27.73669	20378
1050	4.19210	2852	3.76935	1987	24.17112	17582	27.94047	19569
1100	4.22062	2627	3.78922	1934	24.34694	16886	28.13616	18820
1150	4.24689	2425	3.80856	1878	24.51580	16249	28.32436	18127

Table 2.075. CT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.27114	4315	3.82734	3584	24.67829	30777	28.50563	34361
1300	4.31429	3718	3.86318	3358	24.98606	28754	28.84924	32112
1400	4.35147	3230	3.89676	3141	25.27360	26993	29.17036	30134
1500	4.38377	2833	3.92817	2938	25.54353	25447	29.47170	28385
1600	4.41210	2508	3.95755	2750	25.79800	24076	29.75555	26826
1700	4.43718	2238	3.98505	2575	26.03876	22852	30.02381	25427
1800	4.45956	2016	4.01080	2415	26.26728	21751	30.27808	24166
1900	4.47972	1830	4.03495	2270	26.48479	20755	30.51974	23025
2000	4.49802	1674	4.05765	2138	26.69234	19849	30.74999	21987
2100	4.51476	1541	4.07903	2016	26.89083	19023	30.96986	21039
2200	4.53017	1428	4.09919	1905	27.08106	18264	31.18025	20169
2300	4.54445	1333	4.11824	1804	27.26370	17566	31.38194	19370
2400	4.55778	1249	4.13628	1712	27.43936	16920	31.57564	18632
2500	4.57027	1179	4.15340	1626	27.60856	16321	31.76196	17947
2600	4.58206	1115	4.16966	1548	27.77177	15766	31.94143	17314
2700	4.59321	1061	4.18514	1476	27.92943	15248	32.11457	16724
2800	4.60382	1014	4.19990	1411	28.08191	14762	32.28181	16173
2900	4.61396	970	4.21401	1349	28.22953	14309	32.44354	15658
3000	4.62366	1836	4.22750	2535	28.37262	27367	32.60012	29902
3200	4.64202	1714	4.25285	2340	28.64629	25852	32.89914	28192
3400	4.65916	1620	4.27625	2172	28.90481	24506	33.18106	26678
3600	4.67536	1542	4.29797	2028	29.14987	23293	33.44784	25321
3800	4.69078	1475	4.31825	1899	29.38280	22198	33.70105	24097
4000	4.70553	1422	4.33724	1788	29.60478	21205	33.94202	22993
4200	4.71975	1375	4.35512	1688	29.81683	20300	34.17195	21988
4400	4.73350	1336	4.37200	1601	30.01983	19470	34.39183	21071
4600	4.74686	1301	4.38801	1523	30.21453	18707	34.60254	20230
4800	4.75987	1271	4.40324	1452	30.40160	18005	34.80484	19457
5000	4.77258		4.41776		30.58165		34.99941	

Table 2. 076. SiH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.73696	8356	3.39401	6456	13.65530	62463	17.04931	68919
60	3.82052	5149	3.45857	5576	14.27993	53745	17.73850	59321
70	3.87201	2365	3.51433	4644	14.81738	47241	18.33171	51885
80	3.89566	348	3.56077	3756	15.28979	42165	18.85056	45921
90	3.89914	- 955	3.59833	2967	15.71144	38072	19.30977	41039
100	3.88959	-1713	3.62800	2305	16.09216	34691	19.72016	36996
110	3.87246	-2103	3.65105	1759	16.43907	31848	20.09012	33607
120	3.85143	-2256	3.66864	1320	16.75755	29420	20.42619	30740
130	3.82887	-2260	3.68184	969	17.05175	27323	20.73359	28292
140	3.80627	-2179	3.69153	692	17.32498	25493	21.01651	26185
150	3.78448	-2053	3.69845	474	17.57991	23885	21.27836	24359
160	3.76395	-1909	3.70319	300	17.81876	22461	21.52195	22761
170	3.74486	-1755	3.70619	164	18.04337	21189	21.74956	21353
180	3.72731	-1606	3.70783	59	18.25526	20050	21.96309	20109
190	3.71125	-1460	3.70842	- 22	18.45576	19021	22.16418	18999
200	3.69665	-1325	3.70820	- 87	18.64597	18091	22.35417	18004
210	3.68340	-1198	3.70733	- 135	18.82688	17243	22.53421	17108
220	3.67142	-1080	3.70598	- 175	18.99931	16470	22.70529	16295
230	3.66062	- 968	3.70423	- 203	19.16401	15761	22.86824	15558
240	3.65094	- 864	3.70220	- 222	19.32162	15107	23.02382	14885
250	3.64230	- 768	3.69998	- 238	19.47269	14509	23.17267	14271
260	3.63462	- 675	3.69760	- 244	19.61778	13950	23.31538	13706
270	3.62787	- 587	3.69516	- 252	19.75728	13434	23.45244	13181
280	3.62200	- 501	3.69264	- 252	19.89162	12953	23.58425	12702
290	3.61699	- 420	3.69012	- 252	20.02115	12506	23.71127	12253
300	3.61279	- 341	3.68760	- 248	20.14621	12088	23.83380	11842
310	3.60938	- 264	3.68512	- 239	20.26709	11696	23.95222	11455
320	3.60674	- 191	3.68273	- 233	20.38405	11329	24.06677	11097
330	3.60483	- 118	3.68040	- 225	20.49734	10984	24.17774	10758
340	3.60365	- 48	3.67815	- 214	20.60718	10658	24.28532	10445
350	3.60317	19	3.67601	- 201	20.71376	10353	24.38977	10151
360	3.60336	85	3.67400	- 191	20.81729	10065	24.49128	9874
370	3.60421	149	3.67209	- 176	20.91794	9789	24.59002	9614
380	3.60570	209	3.67033	- 164	21.01583	9532	24.68616	9371
390	3.60779	269	3.66869	- 149	21.11115	9286	24.77987	9134
400	3.61048	2134	3.66720	- 523	21.20401	43160	24.87121	42637
450	3.63182	3207	3.66197	- 149	21.63561	38572	25.29758	38423
500	3.66389	3957	3.66048	206	22.02133	34895	25.68181	35101
550	3.70346	4417	3.66254	523	22.37028	31888	26.03282	32411
600	3.74763	4646	3.66777	792	22.68916	29388	26.35693	30180
650	3.79409	4698	3.67569	1013	22.98304	27276	26.65873	28290
700	3.84107	4630	3.68582	1191	23.25580	25469	26.94163	26659
750	3.88737	4477	3.69773	1326	23.51049	23906	27.20822	25231
800	3.93214	4276	3.71099	1428	23.74955	22540	27.46053	23969
850	3.97490	4047	3.72527	1501	23.97495	21335	27.70022	22836
900	4.01537	3805	3.74028	1547	24.18830	20264	27.92858	21812
950	4.05342	3566	3.75575	1580	24.39094	19305	28.14670	20884
1000	4.08908	3327	3.77155	1591	24.58399	18440	28.35554	20031
1050	4.12235	3106	3.78748	1595	24.76839	17655	28.55585	19250
1100	4.15341	2892	3.80341	1585	24.94494	16943	28.74835	18528
1150	4.18233	2696	3.81926	1569	25.11437	16288	28.93363	17857

Table 2. 076. SiH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.20929	4856	3.83495	3070	25.27725	30818	29.11220	33888
1300	4.25785	4237	3.86565	2957	25.58543	28757	29.45108	31714
1400	4.30022	3716	3.89522	2827	25.87300	26971	29.76822	29798
1500	4.33738	3280	3.92349	2691	26.14271	25408	30.06620	28099
1600	4.37018	2914	3.95040	2557	26.39679	24026	30.34719	26583
1700	4.39932	2610	3.97597	2426	26.63705	22796	30.61302	25222
1800	4.42542	2352	4.00023	2300	26.86501	21690	30.86524	23990
1900	4.44894	2135	4.02323	2183	27.08191	20694	31.10514	22876
2000	4.47029	1949	4.04506	2072	27.28885	19785	31.33390	21858
2100	4.48978	1792	4.06578	1968	27.48670	18961	31.55248	20929
2200	4.50770	1658	4.08546	1873	27.67631	18202	31.76177	20075
2300	4.52428	1542	4.10419	1783	27.85833	17505	31.96252	19287
2400	4.53970	1442	4.12202	1700	28.03338	16861	32.15539	18562
2500	4.55412	1354	4.13902	1624	28.20199	16266	32.34101	17889
2600	4.56766	1278	4.15526	1549	28.36465	15711	32.51990	17261
2700	4.58044	1211	4.17075	1486	28.52176	15195	32.69251	16681
2800	4.59255	1153	4.18561	1423	28.67371	14713	32.85932	16137
2900	4.60408	1100	4.19984	1366	28.82084	14262	33.02069	15627
3000	4.61508	2067	4.21350	2575	28.96346	27275	33.17696	29851
3200	4.63575	1920	4.23925	2390	29.23621	25774	33.47547	28163
3400	4.65495	1801	4.26315	2228	29.49395	24431	33.75710	26659
3600	4.67296	1704	4.28543	2083	29.73826	23228	34.02369	25310
3800	4.69000	1621	4.30626	1962	29.97054	22137	34.27679	24099
4000	4.70621	1556	4.32588	1846	30.19191	21151	34.51778	22999
4200	4.72177	1497	4.34434	1751	30.40342	20251	34.74777	22001
4400	4.73674	1447	4.36185	1661	30.60593	19426	34.96778	21087
4600	4.75121	1406	4.37846	1582	30.80019	18668	35.17865	20250
4800	4.76527	1369	4.39428	1513	30.98687	17969	35.38115	19482
5000	4.77896		4.40941		31.16656		35.57597	

Table 2.077. SiD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.75653	8593	3.47695	5422	14.25275	63877	17.72970	69299
60	3.84246	5198	3.53117	4857	14.89152	54807	18.42269	59664
70	3.89444	2278	3.57974	4103	15.43959	48078	19.01933	52181
80	3.91722	180	3.62077	3319	15.92037	42846	19.54114	46165
90	3.91902	-1152	3.65396	2601	16.34883	38638	20.00279	41239
100	3.90750	-1918	3.67997	1986	16.73521	35171	20.41518	37157
110	3.88832	-2296	3.69983	1476	17.08692	32260	20.78675	33736
120	3.86536	-2427	3.71459	1067	17.40952	29778	21.12411	30845
130	3.84109	-2413	3.72526	740	17.70730	27635	21.43256	28375
140	3.81696	-2298	3.73266	486	17.98365	25771	21.71631	26257
150	3.79398	-2147	3.73752	286	18.24136	24130	21.97888	24416
160	3.77251	-1970	3.74038	129	18.48266	22681	22.22304	22810
170	3.75281	-1780	3.74167	9	18.70947	21388	22.45114	21400
180	3.73501	-1588	3.74176	-76	18.92335	20230	22.66514	20151
190	3.71913	-1397	3.74100	-145	19.12565	19184	22.86665	19040
200	3.70516	-1207	3.73955	-193	19.31749	18241	23.05705	18048
210	3.69309	-1026	3.73762	-226	19.49990	17382	23.23753	17155
220	3.68283	-848	3.73536	-249	19.67372	16599	23.40908	16350
230	3.67435	-676	3.73287	-257	19.83971	15882	23.57258	15625
240	3.66759	-512	3.73030	-262	19.99853	15223	23.72883	14961
250	3.66247	-354	3.72768	-258	20.15076	14614	23.87844	14356
260	3.65893	-202	3.72510	-250	20.29690	14055	24.02200	13805
270	3.65691	-59	3.72260	-236	20.43745	13534	24.16005	13298
280	3.65632	77	3.72024	-218	20.57279	13050	24.29303	12832
290	3.65709	203	3.71806	-202	20.70329	12603	24.42135	12401
300	3.65912	322	3.71604	-178	20.82932	12181	24.54536	12003
310	3.66234	431	3.71426	-155	20.95113	11789	24.66539	11634
320	3.66665	533	3.71271	-133	21.06902	11424	24.78173	11292
330	3.67198	626	3.71138	-106	21.18326	11077	24.89465	10971
340	3.67824	712	3.71032	-82	21.29403	10755	25.00436	10672
350	3.68536	787	3.70950	-57	21.40158	10449	25.11108	10393
360	3.69323	855	3.70893	-31	21.50607	10162	25.21501	10130
370	3.70178	918	3.70862	-6	21.60769	9890	25.31631	9884
380	3.71096	972	3.70856	19	21.70659	9633	25.41515	9652
390	3.72068	1017	3.70875	42	21.80292	9390	25.51167	9432
400	3.73085	5596	3.70917	546	21.89682	43713	25.60599	44259
450	3.78681	5995	3.71463	1020	22.33395	39188	26.04858	40208
500	3.84676	5979	3.72483	1382	22.72583	35563	26.45066	36945
550	3.90655	5723	3.73865	1640	23.08146	32599	26.82011	34239
600	3.96378	5342	3.75505	1814	23.40745	30128	27.16250	31942
650	4.01720	4912	3.77319	1921	23.70873	28032	27.48192	29953
700	4.06632	4475	3.79240	1976	23.98905	26232	27.78145	28209
750	4.11107	4057	3.81216	1999	24.25137	24667	28.06354	26665
800	4.15164	3675	3.83215	1988	24.49804	23292	28.33019	25280
850	4.18839	3322	3.85203	1962	24.73096	22074	28.58299	24037
900	4.22161	3008	3.87165	1923	24.95170	20984	28.82336	22906
950	4.25169	2728	3.89088	1873	25.16154	20007	29.05242	21880
1000	4.27897	2481	3.90961	1819	25.36161	19118	29.27122	20938
1050	4.30378	2262	3.92780	1761	25.55279	18315	29.48060	20075
1100	4.32640	2068	3.94541	1702	25.73594	17573	29.68135	19275
1150	4.34708	1896	3.96243	1643	25.91167	16900	29.87410	18543

Table 2.077. SiD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.36604	3357	3.97886	3110	26.08067	31973	30.05953	35083
1300	4.39961	2881	4.00996	2889	26.40040	29824	30.41036	32712
1400	4.42842	2501	4.03885	2682	26.69864	27957	30.73748	30640
1500	4.45343	2200	4.06567	2495	26.97821	26320	31.04388	28815
1600	4.47543	1957	4.09062	2322	27.24141	24869	31.33203	27191
1700	4.49500	1760	4.11384	2166	27.49010	23577	31.60394	25744
1800	4.51260	1597	4.13550	2029	27.72587	22414	31.86138	24442
1900	4.52857	1463	4.15579	1900	27.95001	21366	32.10580	23266
2000	4.54320	1351	4.17479	1788	28.16367	20412	32.33846	22200
2100	4.55671	1257	4.19267	1684	28.36779	19544	32.56046	21228
2200	4.56928	1179	4.20951	1589	28.56323	18747	32.77274	20336
2300	4.58107	1109	4.22540	1506	28.75070	18015	32.97610	19521
2400	4.59216	1054	4.24046	1427	28.93085	17340	33.17131	18767
2500	4.60270	1001	4.25473	1359	29.10425	16714	33.35898	18073
2600	4.61271	959	4.26832	1293	29.27139	16134	33.53971	17427
2700	4.62230	921	4.28125	1235	29.43273	15592	33.71398	16827
2800	4.63151	888	4.29360	1180	29.58865	15086	33.88225	16266
2900	4.64039	857	4.30540	1131	29.73951	14616	34.04491	15747
3000	4.64896	1644	4.31671	2128	29.88567	27929	34.20238	30058
3200	4.66540	1559	4.33799	1972	30.16496	26358	34.50296	28330
3400	4.68099	1492	4.35771	1838	30.42854	24962	34.78626	26799
3600	4.69591	1437	4.37609	1721	30.67816	23706	35.05425	25427
3800	4.71028	1391	4.39330	1622	30.91522	22576	35.30852	24198
4000	4.72419	1352	4.40952	1529	31.14098	21553	35.55050	23082
4200	4.73771	1319	4.42481	1452	31.35651	20618	35.78132	22070
4400	4.75090	1290	4.43933	1383	31.56269	19764	36.00202	21147
4600	4.76380	1265	4.45316	1321	31.76033	18981	36.21349	20301
4800	4.77645	1243	4.46637	1265	31.95014	18258	36.41650	19523
5000	4.78888		4.47902		32.13272		36.61173	

Table 2. 078. SiT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.76154	8708	3.50325	5079	14.63851	64323	18.14176	69402
60	3.84862	5252	3.55404	4623	15.28174	55142	18.83578	59765
70	3.90114	2280	3.60027	3930	15.83316	48342	19.43343	52272
80	3.92394	151	3.63957	3183	16.31658	43059	19.95615	46242
90	3.92545	-1198	3.67140	2489	16.74717	38815	20.41857	41304
100	3.91347	-1970	3.69629	1889	17.13532	35321	20.83161	37210
110	3.89377	-2343	3.71518	1392	17.48853	32391	21.20371	33783
120	3.87034	-2460	3.72910	992	17.81244	29889	21.54154	30881
130	3.84574	-2419	3.73902	676	18.11133	27736	21.85035	28412
140	3.82155	-2281	3.74578	428	18.38869	25858	22.13447	26287
150	3.79874	-2088	3.75006	238	18.64727	24212	22.39734	24449
160	3.77786	-1859	3.75244	93	18.88939	22753	22.64183	22846
170	3.75927	-1613	3.75337	- 13	19.11692	21453	22.87029	21440
180	3.74314	-1363	3.75324	- 90	19.33145	20291	23.08469	20201
190	3.72951	-1110	3.75234	- 143	19.53436	19243	23.28670	19100
200	3.71841	- 865	3.75091	- 176	19.72679	18295	23.47770	18119
210	3.70976	- 625	3.74915	- 194	19.90974	17437	23.65889	17243
220	3.70351	- 397	3.74721	- 199	20.08411	16653	23.83132	16454
230	3.69954	- 182	3.74522	- 195	20.25064	15936	23.99586	15740
240	3.69772	20	3.74327	- 183	20.41000	15276	24.15326	15094
250	3.69792	204	3.74144	- 163	20.56276	14672	24.30420	14509
260	3.69996	376	3.73981	- 142	20.70948	14114	24.44929	13972
270	3.70372	531	3.73839	- 115	20.85062	13591	24.58901	13477
280	3.70903	668	3.73724	- 86	20.98653	13113	24.72378	13026
290	3.71571	792	3.73638	- 57	21.11766	12666	24.85404	12610
300	3.72363	901	3.73581	- 24	21.24432	12249	24.98014	12224
310	3.73264	997	3.73557	6	21.36681	11860	25.10238	11866
320	3.74261	1078	3.73563	37	21.48541	11496	25.22104	11533
330	3.75339	1149	3.73600	69	21.60037	11153	25.33637	11222
340	3.76488	1207	3.73669	97	21.71190	10834	25.44859	10930
350	3.77695	1255	3.73766	127	21.82024	10531	25.55789	10659
360	3.78950	1295	3.73893	154	21.92555	10247	25.66448	10400
370	3.80245	1325	3.74047	180	22.02802	9977	25.76848	10158
380	3.81570	1347	3.74227	206	22.12779	9723	25.87006	9929
390	3.82917	1363	3.74433	228	22.22502	9482	25.96935	9711
400	3.84280	6865	3.74661	1452	22.31984	44208	26.06646	45659
450	3.91145	6609	3.76113	1837	22.76192	39721	26.52305	41558
500	3.97754	6102	3.77950	2082	23.15913	36118	26.93863	38200
550	4.03856	5506	3.80032	2219	23.52031	33162	27.32063	35381
600	4.09362	4908	3.82251	2277	23.85193	30687	27.67444	32963
650	4.14270	4354	3.84528	2283	24.15880	28580	28.00407	30864
700	4.18624	3854	3.86811	2252	24.44460	26764	28.31271	29016
750	4.22478	3415	3.89063	2197	24.71224	25180	28.60287	27377
800	4.25893	3033	3.91260	2129	24.96404	23785	28.87664	25914
850	4.28926	2705	3.93389	2051	25.20189	22543	29.13578	24594
900	4.31631	2420	3.95440	1969	25.42732	21435	29.38172	23404
950	4.34051	2174	3.97409	1887	25.64167	20430	29.61576	22318
1000	4.36225	1965	3.99296	1807	25.84597	19525	29.83894	21331
1050	4.38190	1782	4.01103	1726	26.04122	18702	30.05225	20429
1100	4.39972	1625	4.02829	1651	26.22824	17944	30.25654	19593
1150	4.41597	1486	4.04480	1578	26.40768	17248	30.45247	18827

Table 2.078. SiT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.43083	2630	4.06058	2952	26.58016	32619	30.64074	35571
1300	4.45713	2260	4.09010	2704	26.90635	30411	30.99645	33115
1400	4.47973	1975	4.11714	2486	27.21046	28491	31.32760	30976
1500	4.49948	1750	4.14200	2288	27.49537	26807	31.63736	29097
1600	4.51698	1569	4.16488	2118	27.76344	25313	31.92833	27431
1700	4.53267	1427	4.18606	1966	28.01657	23984	32.20264	25949
1800	4.54694	1311	4.20572	1831	28.25641	22789	32.46213	24620
1900	4.56005	1213	4.22403	1711	28.48430	21710	32.70833	23421
2000	4.57218	1132	4.24114	1605	28.70140	20731	32.94254	22335
2100	4.58350	1066	4.25719	1507	28.90871	19841	33.16589	21349
2200	4.59416	1009	4.27226	1421	29.10712	19022	33.37938	20443
2300	4.60425	962	4.28647	1345	29.29734	18271	33.58381	19615
2400	4.61387	921	4.29992	1275	29.48005	17579	33.77996	18855
2500	4.62308	886	4.31267	1210	29.65584	16939	33.96851	18149
2600	4.63194	855	4.32477	1154	29.82523	16343	34.15000	17497
2700	4.64049	827	4.33631	1101	29.98866	15791	34.32497	16892
2800	4.64876	805	4.34732	1053	30.14657	15275	34.49389	16328
2900	4.65681	784	4.35785	1010	30.29932	14791	34.65717	15800
3000	4.66465	1513	4.36795	1902	30.44723	28251	34.81517	30154
3200	4.67978	1455	4.38697	1765	30.72974	26649	35.11671	28414
3400	4.69433	1405	4.40462	1649	30.99623	25224	35.40085	26873
3600	4.70838	1366	4.42111	1549	31.24847	23945	35.66958	25494
3800	4.72204	1333	4.43660	1460	31.48792	22795	35.92452	24255
4000	4.73537	1303	4.45120	1384	31.71587	21751	36.16707	23135
4200	4.74840	1280	4.46504	1317	31.93338	20802	36.39842	22119
4400	4.76120	1256	4.47821	1258	32.14140	19934	36.61961	21192
4600	4.77376	1237	4.49079	1205	32.34074	19139	36.83153	20344
4800	4.78613	1220	4.50284	1157	32.53213	18405	37.03497	19562
5000	4.79833		4.51441		32.71618		37.23059	

Table 2.079. SnH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50152	1	3.44917	873	15.91988	62968	19.36905	63841
60	3.50153	9	3.45790	624	16.54956	53353	20.00746	53977
70	3.50162	12	3.46414	469	17.08309	46289	20.54723	46758
80	3.50174	15	3.46883	366	17.54598	40879	21.01481	41245
90	3.50189	16	3.47249	295	17.95477	36602	21.42726	36897
100	3.50205	17	3.47544	243	18.32079	33137	21.79623	33380
110	3.50222	17	3.47787	203	18.65216	30270	22.13003	30473
120	3.50239	18	3.47990	174	18.95486	27861	22.43476	28035
130	3.50257	20	3.48164	150	19.23347	25808	22.71511	25958
140	3.50277	22	3.48314	132	19.49155	24035	22.97469	24167
150	3.50299	26	3.48446	116	19.73190	22493	23.21636	22609
160	3.50325	33	3.48562	105	19.95683	21134	23.44245	21239
170	3.50358	45	3.48667	95	20.16817	19932	23.65484	20027
180	3.50403	60	3.48762	88	20.36749	18859	23.85511	18947
190	3.50463	81	3.48850	82	20.55608	17896	24.04458	17978
200	3.50544	109	3.48932	80	20.73504	17026	24.22436	17106
210	3.50653	142	3.49012	78	20.90530	16238	24.39542	16316
220	3.50795	184	3.49090	78	21.06768	15520	24.55858	15598
230	3.50979	232	3.49168	80	21.22288	14862	24.71456	14942
240	3.51211	285	3.49248	84	21.37150	14258	24.86398	14342
250	3.51496	347	3.49332	89	21.51408	13704	25.00740	13793
260	3.51843	413	3.49421	98	21.65112	13188	25.14533	13286
270	3.52256	482	3.49519	106	21.78300	12713	25.27819	12819
280	3.52738	558	3.49625	117	21.91013	12271	25.40638	12388
290	3.53296	636	3.49742	128	22.03284	11859	25.53026	11987
300	3.53932	714	3.49870	142	22.15143	11475	25.65013	11617
310	3.54646	797	3.50012	158	22.26618	11115	25.76630	11273
320	3.55443	878	3.50170	173	22.37733	10778	25.87903	10951
330	3.56321	960	3.50343	190	22.48511	10461	25.98854	10651
340	3.57281	1040	3.50533	207	22.58972	10164	26.09505	10371
350	3.58321	1118	3.50740	226	22.69136	9884	26.19876	10110
360	3.59439	1196	3.50966	245	22.79020	9620	26.29986	9865
370	3.60635	1271	3.51211	265	22.88640	9369	26.39851	9634
380	3.61906	1342	3.51476	284	22.98009	9133	26.49485	9417
390	3.63248	1411	3.51760	304	23.07142	8910	26.58902	9214
400	3.64659	7950	3.52064	1829	23.16052	41568	26.68116	43397
450	3.72609	9067	3.53893	2318	23.57620	37402	27.11513	39720
500	3.81676	9688	3.56211	2753	23.95022	34076	27.51233	36829
550	3.91364	9871	3.58964	3110	24.29098	31366	27.88062	34476
600	4.01235	9713	3.62074	3389	24.60464	29113	28.22538	32502
650	4.10948	9297	3.65463	3584	24.89577	27214	28.55040	30798
700	4.20245	8713	3.69047	3707	25.16791	25587	28.85838	29294
750	4.28958	8028	3.72754	3768	25.42378	24178	29.15132	27946
800	4.36986	7293	3.76522	3774	25.66556	22940	29.43078	26714
850	4.44279	6548	3.80296	3740	25.89496	21843	29.69792	25583
900	4.50827	5820	3.84036	3672	26.11339	20862	29.95375	24534
950	4.56647	5129	3.87708	3578	26.32201	19978	30.19909	23556
1000	4.61776	4485	3.91286	3466	26.52179	19176	30.43465	22642
1050	4.66261	3896	3.94752	3341	26.71355	18441	30.66107	21782
1100	4.70157	3362	3.98093	3208	26.89796	17768	30.87889	20976
1150	4.73519	2884	4.01301	3070	27.07564	17144	31.08865	20214

Table 2.079. SnH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.76403	4545	4.04371	5726	27.24708	32597	31.29079	38323
1300	4.80948	3229	4.10097	5183	27.57305	30584	31.67402	35767
1400	4.84177	2234	4.15280	4672	27.87889	28814	32.03169	33486
1500	4.86411	1495	4.19952	4204	28.16703	27239	32.36655	31443
1600	4.87906	956	4.24156	3781	28.43942	25830	32.68098	29611
1700	4.88862	569	4.27937	3401	28.69772	24559	32.97709	27960
1800	4.89431	297	4.31338	3067	28.94331	23405	33.25669	26472
1900	4.89728	112	4.34405	2769	29.17736	22353	33.52141	25122
2000	4.89840	- 10	4.37174	2508	29.40089	21391	33.77263	23899
2100	4.89830	- 86	4.39682	2278	29.61480	20508	34.01162	22786
2200	4.89744	- 126	4.41960	2075	29.81988	19692	34.23948	21767
2300	4.89618	- 144	4.44035	1897	30.01680	18939	34.45715	20836
2400	4.89474	- 143	4.45932	1737	30.20619	18239	34.66551	19976
2500	4.89331	- 130	4.47669	1601	30.38858	17590	34.86527	19191
2600	4.89201	- 108	4.49270	1477	30.56448	16984	35.05718	18461
2700	4.89093	- 83	4.50747	1368	30.73432	16417	35.24179	17785
2800	4.89010	- 54	4.52115	1271	30.89849	15889	35.41964	17160
2900	4.88956	- 20	4.53386	1185	31.05738	15390	35.59124	16575
3000	4.88936	54	4.54571	2149	31.21128	29407	35.75699	31556
3200	4.88990	179	4.56720	1902	31.50535	27747	36.07255	29649
3400	4.89169	295	4.58622	1706	31.78282	26264	36.36904	27970
3600	4.89464	401	4.60328	1543	32.04546	24930	36.64874	26473
3800	4.89865	496	4.61811	1412	32.29476	23727	36.91347	25139
4000	4.90361	577	4.63283	1303	32.53203	22636	37.16486	23939
4200	4.90938	648	4.64586	1212	32.75839	21640	37.40425	22852
4400	4.91586	709	4.65798	1136	32.97479	20732	37.63277	21868
4600	4.92295	763	4.66934	1073	33.18211	19895	37.85145	20968
4800	4.93058	810	4.68007	1018	33.38106	19126	38.06113	20144
5000	4.93868		4.69025		33.57232		38.26257	

Table 2.080. SnD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50109	15	3.47463	442	16.58723	63392	20.06186	63834
60	3.50124	17	3.47905	318	17.22115	53655	20.70020	53973
70	3.50141	17	3.48223	241	17.75770	46515	21.23993	46756
80	3.50158	19	3.48464	189	18.22285	41055	21.70749	41244
90	3.50177	20	3.48653	154	18.63340	36742	22.11993	36896
100	3.50197	25	3.48807	127	19.00082	33251	22.48889	33378
110	3.50222	36	3.48934	109	19.33333	30366	22.82267	30475
120	3.50258	56	3.49043	95	19.63699	27942	23.12742	28037
130	3.50314	89	3.49138	87	19.91641	25878	23.40779	25965
140	3.50403	136	3.49225	83	20.17519	24097	23.66744	24180
150	3.50539	200	3.49308	83	20.41616	22546	23.90924	22629
160	3.50739	280	3.49391	87	20.64162	21184	24.13553	21271
170	3.51019	375	3.49478	96	20.85346	19979	24.34824	20075
180	3.51394	480	3.49574	107	21.05325	18903	24.54899	19010
190	3.51874	595	3.49681	124	21.24228	17939	24.73909	18063
200	3.52469	715	3.49805	144	21.42167	17071	24.91972	17215
210	3.53184	838	3.49949	166	21.59238	16283	25.09187	16449
220	3.54022	958	3.50115	190	21.75521	15567	25.25636	15757
230	3.54980	1079	3.50305	217	21.91088	14914	25.41393	15131
240	3.56059	1192	3.50522	245	22.06002	14313	25.56524	14558
250	3.57251	1300	3.50767	274	22.20315	13764	25.71082	14038
260	3.58551	1400	3.51041	304	22.34079	13254	25.85120	13558
270	3.59951	1492	3.51345	333	22.47333	12783	25.98678	13116
280	3.61443	1578	3.51678	364	22.60116	12347	26.11794	12711
290	3.63021	1655	3.52042	393	22.72463	11941	26.24505	12334
300	3.64676	1723	3.52435	423	22.84404	11563	26.36839	11986
310	3.66399	1785	3.52858	451	22.95967	11211	26.48825	11662
320	3.68184	1839	3.53309	478	23.07178	10879	26.60487	11357
330	3.70023	1886	3.53787	506	23.18057	10568	26.71844	11074
340	3.71909	1929	3.54293	531	23.28625	10278	26.82918	10809
350	3.73838	1962	3.54824	555	23.38903	10004	26.93727	10559
360	3.75800	1993	3.55379	579	23.48907	9745	27.04286	10324
370	3.77793	2020	3.55958	601	23.58652	9500	27.14610	10101
380	3.79813	2041	3.56559	622	23.68152	9270	27.24711	9892
390	3.81854	2058	3.57181	642	23.77422	9052	27.34603	9694
400	3.83912	10436	3.57823	3477	23.86474	42342	27.44297	45819
450	3.94348	10422	3.61300	3828	24.28816	38262	27.90116	42090
500	4.04770	10158	3.65128	4068	24.67078	34989	28.32206	39057
550	4.14928	9703	3.69196	4219	25.02067	32305	28.71263	36524
600	4.24631	9119	3.73415	4295	25.34372	30059	29.07787	34354
650	4.33750	8434	3.77710	4309	25.64431	28148	29.42141	32457
700	4.42184	7698	3.82019	4271	25.92579	26503	29.74598	30774
750	4.49882	6941	3.86290	4196	26.19082	25066	30.05372	29262
800	4.56823	6186	3.90486	4087	26.44148	23796	30.34634	27883
850	4.63009	5458	3.94573	3957	26.67944	22665	30.62517	26622
900	4.68467	4767	3.98530	3809	26.90609	21650	30.89139	25459
950	4.73234	4127	4.02339	3651	27.12259	20731	31.14598	24382
1000	4.77361	3538	4.05990	3485	27.32990	19894	31.38980	23379
1050	4.80899	3010	4.09475	3317	27.52884	19125	31.62359	22442
1100	4.83909	2534	4.12792	3148	27.72009	18420	31.84801	21568
1150	4.86443	2114	4.15940	2983	27.90429	17766	32.06369	20749

Table 2. 080. SnD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.88557	3166	4.18923	5487	28.08195	33752	32.27118	39239
1300	4.91723	2042	4.24410	4887	28.41947	31635	32.66357	36522
1400	4.93765	1212	4.29297	4342	28.73582	29769	33.02879	34111
1500	4.94977	614	4.33639	3856	29.03351	28112	33.36990	31968
1600	4.95591	193	4.37495	3425	29.31463	26628	33.68958	30053
1700	4.95784	- 94	4.40920	3046	29.58091	25291	33.99011	28337
1800	4.95690	- 281	4.43966	2716	29.83382	24078	34.27348	26794
1900	4.95409	- 395	4.46682	2426	30.07460	22974	34.54142	25400
2000	4.95014	- 457	4.49108	2176	30.30434	21966	34.79542	24142
2100	4.94557	- 480	4.51284	1955	30.52400	21040	35.03684	22995
2200	4.94077	- 478	4.53239	1765	30.73440	20187	35.26679	21952
2300	4.93599	- 456	4.55004	1599	30.93627	19399	35.48631	20998
2400	4.93143	- 423	4.56603	1453	31.13026	18669	35.69629	20122
2500	4.92720	- 382	4.58056	1326	31.31695	17991	35.89751	19317
2600	4.92338	- 335	4.59382	1214	31.49686	17361	36.09068	18575
2700	4.92003	- 288	4.60596	1117	31.67047	16771	36.27643	17888
2800	4.91715	- 240	4.61713	1030	31.83818	16221	36.45531	17251
2900	4.91475	- 190	4.62743	954	32.00039	15703	36.62782	16657
3000	4.91285	- 242	4.63697	1716	32.15742	29983	36.79439	31699
3200	4.91043	- 70	4.65413	1504	32.45725	28262	37.11138	29766
3400	4.90973	84	4.66917	1339	32.73987	26727	37.40904	28066
3600	4.91057	220	4.68256	1205	33.00714	25349	37.68970	26554
3800	4.91277	339	4.69461	1099	33.26063	24109	37.95524	25208
4000	4.91616	440	4.70560	1013	33.50172	22984	38.20732	23997
4200	4.92056	529	4.71573	943	33.73156	21959	38.44729	22902
4400	4.92585	603	4.72516	885	33.95115	21025	38.67631	21910
4600	4.93188	670	4.73401	838	34.16140	20165	38.89541	21003
4800	4.93858	726	4.74239	800	34.36305	19376	39.10544	20176
5000	4.94584		4.75039		34.55681		39.30720	

Table 2. 081. SnT

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50102	17	3.48307	300	16.98473	63532	20.46780	63832
60	3.50119	18	3.48607	218	17.62005	53755	21.10612	53973
70	3.50137	20	3.48825	165	18.15760	46591	21.64585	46756
80	3.50157	26	3.48990	131	18.62351	41113	22.11341	41244
90	3.50183	41	3.49121	108	19.03464	36789	22.52585	36897
100	3.50224	74	3.49229	93	19.40253	33290	22.89482	33383
110	3.50298	131	3.49322	87	19.73543	30399	23.22865	30486
120	3.50429	216	3.49409	86	20.03942	27971	23.53351	28057
130	3.50645	331	3.49495	93	20.31913	25903	23.81408	25996
140	3.50976	470	3.49588	108	20.57816	24123	24.07404	24231
150	3.51446	629	3.49696	128	20.81939	22573	24.31635	22701
160	3.52075	802	3.49824	155	21.04512	21212	24.54336	21367
170	3.52877	979	3.49979	187	21.25724	20010	24.75703	20197
180	3.53856	1154	3.50166	224	21.45734	18938	24.95900	19162
190	3.55010	1323	3.50390	263	21.64672	17979	25.15062	18242
200	3.56333	1479	3.50653	306	21.82651	17116	25.33304	17422
210	3.57812	1620	3.50959	347	21.99767	16334	25.50726	16681
220	3.59432	1745	3.51306	391	22.16101	15625	25.67407	16016
230	3.61177	1855	3.51697	434	22.31726	14977	25.83423	15411
240	3.63032	1944	3.52131	474	22.46703	14384	25.98834	14858
250	3.64976	2020	3.52605	514	22.61087	13840	26.13692	14354
260	3.66996	2081	3.53119	553	22.74927	13337	26.28046	13890
270	3.69077	2126	3.53672	588	22.88264	12872	26.41936	13460
280	3.71203	2163	3.54260	622	23.01136	12443	26.55396	13065
290	3.73366	2188	3.54882	652	23.13579	12042	26.68461	12694
300	3.75554	2202	3.55534	681	23.25621	11668	26.81155	12349
310	3.77756	2213	3.56215	708	23.37289	11321	26.93504	12029
320	3.79969	2214	3.56923	732	23.48610	10995	27.05533	11727
330	3.82183	2213	3.57655	754	23.59605	10687	27.17260	11441
340	3.84396	2207	3.58409	775	23.70292	10401	27.28701	11176
350	3.86603	2195	3.59184	792	23.80693	10130	27.39877	10922
360	3.88798	2184	3.59976	808	23.90823	9874	27.50799	10682
370	3.90982	2172	3.60784	823	24.00697	9632	27.61481	10455
380	3.93154	2155	3.61607	837	24.10329	9404	27.71936	10241
390	3.95309	2139	3.62444	848	24.19733	9187	27.82177	10035
400	3.97448	10431	3.63292	4379	24.28920	43041	27.92212	47420
450	4.07879	9949	3.67671	4522	24.71961	38971	28.39632	43493
500	4.17828	9436	3.72193	4582	25.10932	35688	28.83125	40270
550	4.27264	8872	3.76775	4581	25.46620	32980	29.23395	37561
600	4.36136	8262	3.81356	4536	25.79600	30705	29.60956	35241
650	4.44398	7601	3.85892	4455	26.10305	28761	29.96197	33216
700	4.51999	6911	3.90347	4344	26.39066	27080	30.29413	31424
750	4.58910	6212	3.94691	4212	26.66146	25608	30.60837	29820
800	4.65122	5521	3.98903	4060	26.91754	24306	30.90657	28366
850	4.70643	4851	4.02963	3898	27.16060	23144	31.19023	27042
900	4.75494	4217	4.06861	3726	27.39204	22098	31.46065	25824
950	4.79711	3630	4.10587	3549	27.61302	21151	31.71889	24700
1000	4.83341	3089	4.14136	3371	27.82453	20289	31.96589	23660
1050	4.86430	2603	4.17507	3194	28.02742	19496	32.20249	22690
1100	4.89033	2167	4.20701	3020	28.22238	18769	32.42939	21789
1150	4.91200	1780	4.23721	2849	28.41007	18094	32.64728	20943

Table 2.081. SnT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.92980	2587	4.26570	5216	28.59101	34354	32.85671	39570
1300	4.95567	1562	4.31786	4617	28.93455	32171	33.25241	36788
1400	4.97129	810	4.36403	4079	29.25626	30251	33.62029	34330
1500	4.97939	275	4.40482	3602	29.55877	28545	33.96359	32147
1600	4.98214	- 96	4.44084	3183	29.84422	27020	34.28506	30203
1700	4.98118	- 342	4.47267	2816	30.11442	25647	34.58709	28463
1800	4.97776	- 495	4.50083	2498	30.37089	24403	34.87172	26901
1900	4.97281	- 581	4.52581	2220	30.61492	23271	35.14073	25491
2000	4.96700	- 619	4.54801	1981	30.84763	22239	35.39564	24220
2100	4.96081	- 623	4.56782	1772	31.07002	21292	35.63784	23064
2200	4.95458	- 603	4.58554	1591	31.28294	20419	35.86848	22010
2300	4.94855	- 569	4.60145	1435	31.48713	19615	36.08858	21050
2400	4.94286	- 523	4.61580	1297	31.68328	18868	36.29908	20165
2500	4.93763	- 472	4.62877	1179	31.87196	18178	36.50073	19357
2600	4.93291	- 416	4.64056	1075	32.05374	17535	36.69430	18610
2700	4.92875	- 361	4.65131	985	32.22909	16933	36.88040	17918
2800	4.92514	- 306	4.66116	904	32.39842	16373	37.05958	17277
2900	4.92208	- 251	4.67020	835	32.56215	15847	37.23235	16682
3000	4.91957	- 348	4.67855	1494	32.72062	30243	37.39917	31737
3200	4.91609	- 160	4.69349	1304	33.02305	28495	37.71654	29799
3400	4.91449	7	4.70653	1156	33.30800	26935	38.01453	28091
3600	4.91456	153	4.71809	1036	33.57735	25537	38.29544	26573
3800	4.91609	281	4.72845	946	33.83272	24278	38.56117	25224
4000	4.91890	389	4.73791	870	34.07550	23139	38.81341	24009
4200	4.92279	483	4.74661	812	34.30689	22099	39.05350	22911
4400	4.92762	564	4.75473	763	34.52788	21154	39.28261	21917
4600	4.93326	633	4.76236	725	34.73942	20283	39.50178	21008
4800	4.93959	693	4.76961	694	34.94225	19485	39.71186	20179
5000	4.94652		4.77655		35.13710		39.91365	

Table 2.082. PbH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50163	8	3.45313	809	16.82376	63034	20.27689	63843
60	3.50171	15	3.46122	580	17.45410	53401	20.91532	53981
70	3.50186	17	3.46702	436	17.98811	46326	21.45513	46762
80	3.50203	19	3.47138	342	18.45137	40907	21.92275	41249
90	3.50222	21	3.47480	275	18.86044	36626	22.33524	36901
100	3.50243	21	3.47755	227	19.22670	33155	22.70425	33382
110	3.50264	22	3.47982	191	19.55825	30287	23.03807	30478
120	3.50286	23	3.48173	164	19.86112	27875	23.34285	28039
130	3.50309	25	3.48337	141	20.13987	25820	23.62324	25961
140	3.50334	29	3.48478	125	20.39807	24047	23.88285	24172
150	3.50363	36	3.48603	111	20.63854	22502	24.12457	22613
160	3.50399	47	3.48714	101	20.86356	21144	24.35070	21245
170	3.50446	63	3.48815	92	21.07500	19940	24.56315	20032
180	3.50509	84	3.48907	86	21.27440	18867	24.76347	18953
190	3.50593	112	3.48993	83	21.46307	17903	24.95300	17986
200	3.50705	148	3.49076	81	21.64210	17034	25.13286	17115
210	3.50853	189	3.49157	81	21.81244	16244	25.30401	16325
220	3.51042	238	3.49238	83	21.97488	15526	25.46726	15609
230	3.51280	291	3.49321	88	22.13014	14869	25.62335	14957
240	3.51571	350	3.49409	93	22.27883	14266	25.77292	14359
250	3.51921	412	3.49502	101	22.42149	13709	25.91651	13810
260	3.52333	477	3.49603	110	22.55858	13196	26.05461	13306
270	3.52810	545	3.49713	120	22.69054	12721	26.18767	12841
280	3.53355	611	3.49833	132	22.81775	12278	26.31608	12410
290	3.53966	679	3.49965	144	22.94053	11867	26.44018	12011
300	3.54645	744	3.50109	158	23.05920	11483	26.56029	11641
310	3.55389	808	3.50267	173	23.17403	11123	26.67670	11296
320	3.56197	869	3.50440	187	23.28526	10786	26.78966	10973
330	3.57066	927	3.50627	203	23.39312	10471	26.89939	10674
340	3.57993	982	3.50830	219	23.49783	10172	27.00613	10391
350	3.58975	1031	3.51049	234	23.59955	9893	27.11004	10127
360	3.60006	1078	3.51283	250	23.69848	9628	27.21131	9878
370	3.61084	1120	3.51533	266	23.79476	9378	27.31009	9644
380	3.62204	1158	3.51799	282	23.88854	9142	27.40653	9424
390	3.63362	1192	3.52081	297	23.97996	8918	27.50077	9215
400	3.64554	6317	3.52378	1699	24.06914	41599	27.59292	43298
450	3.70871	6597	3.54077	2009	24.48513	37407	28.02590	39416
500	3.77468	6541	3.56086	2242	24.85920	34042	28.42006	36284
550	3.84009	6271	3.58328	2404	25.19962	31281	28.78290	33685
600	3.90280	5884	3.60732	2502	25.51243	28972	29.11975	31474
650	3.96164	5444	3.63234	2549	25.80215	27012	29.43449	29561
700	4.01608	4998	3.65783	2558	26.07227	25324	29.73010	27882
750	4.06606	4566	3.68341	2537	26.32551	23853	30.00892	26390
800	4.11172	4160	3.70878	2493	26.56404	22560	30.27282	25053
850	4.15332	3798	3.73371	2439	26.78964	21410	30.52335	23849
900	4.19130	3470	3.75810	2373	27.00374	20383	30.76184	22756
950	4.22600	3181	3.78183	2301	27.20757	19458	30.98940	21759
1000	4.25781	2931	3.80484	2228	27.40215	18617	31.20699	20845
1050	4.28712	2715	3.82712	2154	27.58832	17854	31.41544	20008
1100	4.31427	2530	3.84866	2079	27.76686	17155	31.61552	19234
1150	4.33957	2376	3.86945	2009	27.93841	16510	31.80786	18519

Table 2.082. PbH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.36333	4384	3.88954	3816	28.10351	31285	31.99305	35101
1300	4.40717	4035	3.92770	3571	28.41636	29240	32.34406	32811
1400	4.44752	3815	3.96341	3355	28.70876	27460	32.67217	30815
1500	4.48567	3687	3.99696	3170	28.98336	25899	32.98032	29069
1600	4.52254	3620	4.02866	3012	29.24235	24514	33.27101	27526
1700	4.55874	3590	4.05878	2878	29.48749	23281	33.54627	26159
1800	4.59464	3579	4.08756	2763	29.72030	22175	33.80786	24938
1900	4.63043	3571	4.11519	2666	29.94205	21177	34.05724	23843
2000	4.66614	3561	4.14185	2580	30.15382	20271	34.29567	22851
2100	4.70175	3539	4.16765	2509	30.35653	19446	34.52418	21955
2200	4.73714	3503	4.19274	2444	30.55099	18692	34.74373	21136
2300	4.77217	3451	4.21718	2384	30.73791	17998	34.95509	20382
2400	4.80668	3384	4.24102	2330	30.91789	17360	35.15891	19690
2500	4.84052	3302	4.26432	2280	31.09149	16770	35.35581	19050
2600	4.87354	3207	4.28712	2232	31.25919	16222	35.54631	18454
2700	4.90561	3101	4.30944	2185	31.42141	15712	35.73085	17897
2800	4.93662	2986	4.33129	2139	31.57853	15236	35.90982	17375
2900	4.96648	2863	4.35268	2094	31.73089	14791	36.08357	16885
3000	4.99511	2739	4.37362	2054	31.87880	14358	36.25242	16412
3200	5.04850	2610	4.41416	1975	32.16238	13678	36.57654	15753
3400	5.09660	2486	4.45291	1898	32.43116	12958	36.88407	15056
3600	5.13946	2362	4.48989	1821	32.68674	12370	37.17663	14381
3800	5.17728	2237	4.52510	1745	32.93044	11826	37.45554	13731
4000	5.21035	2113	4.55855	1674	33.16340	11329	37.72195	13103
4200	5.23914	2000	4.59029	1607	33.38659	10875	37.97688	12503
4400	5.26407	1898	4.62036	1547	33.60084	10461	38.22120	11928
4600	5.28555	1808	4.64883	1493	33.80685	10083	38.45568	11376
4800	5.30403	1720	4.67576	1446	34.00528	9740	38.68104	10846
5000	5.31993		4.70122		34.19668		38.89790	

Table 2.083. PbD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50127	20	3.47675	410	17.49112	63428	20.96787	63838
60	3.50147	21	3.48085	296	18.12540	53681	21.60625	53977
70	3.50168	22	3.48381	225	18.66221	46535	22.14602	46760
80	3.50190	23	3.48606	177	19.12756	41070	22.61362	41247
90	3.50213	25	3.48783	144	19.53826	36756	23.02609	36900
100	3.50238	34	3.48927	121	19.90582	33262	23.39509	33383
110	3.50272	49	3.49048	104	20.23844	30376	23.72892	30480
120	3.50321	76	3.49152	92	20.54220	27951	24.03372	28043
130	3.50397	120	3.49244	87	20.82171	25885	24.31415	25972
140	3.50517	181	3.49331	84	21.08056	24104	24.57387	24188
150	3.50698	261	3.49415	88	21.32160	22553	24.81575	22641
160	3.50959	357	3.49503	96	21.54713	21192	25.04216	21288
170	3.51316	467	3.49599	108	21.75905	19985	25.25504	20093
180	3.51783	588	3.49707	124	21.95890	18911	25.45597	19035
190	3.52371	716	3.49831	144	22.14801	17948	25.64632	18092
200	3.53087	844	3.49975	168	22.32749	17079	25.82724	17247
210	3.53931	974	3.50143	194	22.49828	16293	25.99971	16487
220	3.54905	1097	3.50337	222	22.66121	15578	26.16458	15800
230	3.56002	1214	3.50559	252	22.81699	14925	26.32258	15177
240	3.57216	1323	3.50811	282	22.96624	14326	26.47435	14608
250	3.58539	1420	3.51093	313	23.10950	13777	26.62043	14090
260	3.59959	1507	3.51406	345	23.24727	13268	26.76133	13613
270	3.61466	1582	3.51751	375	23.37995	12799	26.89746	13174
280	3.63048	1646	3.52126	405	23.50794	12364	27.02920	12769
290	3.64694	1698	3.52531	433	23.63158	11958	27.15689	12391
300	3.66392	1740	3.52964	461	23.75116	11581	27.28080	12042
310	3.68132	1772	3.53425	488	23.86697	11229	27.40122	11717
320	3.69904	1794	3.53913	511	23.97926	10898	27.51839	11409
330	3.71698	1807	3.54424	535	24.08824	10589	27.63248	11124
340	3.73505	1814	3.54959	556	24.19413	10297	27.74372	10853
350	3.75319	1814	3.55515	575	24.29710	10023	27.85225	10598
360	3.77133	1806	3.56090	593	24.39733	9765	27.95823	10358
370	3.78939	1795	3.56683	610	24.49498	9520	28.06181	10130
380	3.80734	1777	3.57293	623	24.59018	9289	28.16311	9912
390	3.82511	1758	3.57916	637	24.68307	9070	28.26223	9707
400	3.84269	8376	3.58553	3330	24.77377	42421	28.35930	45751
450	3.92645	7553	3.61883	3461	25.19798	38307	28.81681	41768
500	4.00198	6677	3.65344	3479	25.58105	34984	29.23449	38463
550	4.06875	5846	3.68823	3420	25.93089	32240	29.61912	35660
600	4.12721	5103	3.72243	3314	26.25329	29927	29.97572	33241
650	4.17824	4457	3.75557	3182	26.55256	27949	30.30813	31131
700	4.22281	3906	3.78739	3036	26.83205	26234	30.61944	29270
750	4.26187	3439	3.81775	2886	27.09439	24733	30.91214	27619
800	4.29626	3041	3.84661	2735	27.34172	23402	31.18833	26137
850	4.32667	2715	3.87396	2593	27.57574	22217	31.44970	24810
900	4.35382	2440	3.89989	2454	27.79791	21152	31.69780	23606
950	4.37822	2210	3.92443	2325	28.00943	20190	31.93386	22515
1000	4.40032	2022	3.94768	2205	28.21133	19314	32.15901	21519
1050	4.42054	1870	3.96973	2092	28.40447	18516	32.37420	20608
1100	4.43924	1746	3.99065	1988	28.58963	17784	32.58028	19772
1150	4.45670	1649	4.01053	1894	28.76747	17108	32.77800	19002

Table 2. 083. PbD (Cont.)

$^{\circ}K$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.47319	3093	4.02947	3534	28.93855	32395	32.96802	35929
1300	4.50412	2930	4.06481	3243	29.26250	30244	33.32731	33487
1400	4.53342	2870	4.09724	3003	29.56494	28371	33.66218	31374
1500	4.56212	2874	4.12727	2808	29.84865	26729	33.97592	29537
1600	4.59086	2918	4.15535	2647	30.11594	25271	34.27129	27918
1700	4.62004	2982	4.18182	2518	30.36865	23974	34.55047	26492
1800	4.64986	3048	4.20700	2410	30.60839	22812	34.81539	25222
1900	4.68034	3107	4.23110	2324	30.83651	21762	35.06761	24086
2000	4.71141	3151	4.25434	2251	31.05413	20812	35.30847	23063
2100	4.74292	3177	4.27685	2191	31.26225	19946	35.53910	22137
2200	4.77469	3182	4.29876	2139	31.46171	19157	35.76047	21296
2300	4.80651	3165	4.32015	2092	31.65328	18430	35.97343	20522
2400	4.83816	3127	4.34107	2051	31.83758	17763	36.17865	19814
2500	4.86943	3071	4.36158	2013	32.01521	17146	36.37679	19159
2600	4.90014	2999	4.38171	1975	32.18667	16574	36.56838	18549
2700	4.93013	2912	4.40146	1941	32.35241	16042	36.75387	17983
2800	4.95925	2814	4.42087	1905	32.51283	15546	36.93370	17451
2900	4.98739	2707	4.43992	1870	32.66829	15084	37.10821	16954
3000	5.01446	5065	4.45862	3635	32.81913	28893	37.27775	32528
3200	5.06511	4578	4.49497	3491	33.10806	27356	37.60303	30847
3400	5.11089	4088	4.52988	3344	33.38162	25987	37.91150	29331
3600	5.15177	3611	4.56332	3194	33.64149	24759	38.20481	27953
3800	5.18788	3159	4.59526	3043	33.88908	23648	38.48434	26691
4000	5.21947	2748	4.62569	2895	34.12556	22640	38.75125	25535
4200	5.24695	2378	4.65464	2748	34.35196	21718	39.00660	24466
4400	5.27073	2046	4.68212	2605	34.56914	20870	39.25126	23475
4600	5.29119	1757	4.70817	2467	34.77784	20091	39.48601	22558
4800	5.30876	1508	4.73284	2335	34.97875	19369	39.71159	21704
5000	5.32384		4.75619		35.17244		39.92863	

Table 2.084. PbT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50121	21	3.48458	279	17.88743	63557	21.37201	63836
60	3.50142	23	3.48737	202	18.52300	53774	22.01037	53976
70	3.50165	25	3.48939	155	19.06074	46605	22.55013	46760
80	3.50190	34	3.49094	123	19.52679	41125	23.01773	41248
90	3.50224	55	3.49217	103	19.93804	36799	23.43021	36902
100	3.50279	100	3.49320	92	20.30603	33298	23.79923	33390
110	3.50379	174	3.49412	87	20.63901	30407	24.13313	30494
120	3.50553	279	3.49499	91	20.94308	27978	24.43807	28069
130	3.50832	415	3.49590	103	21.22286	25911	24.71876	26014
140	3.51247	578	3.49693	122	21.48197	24131	24.97890	24253
150	3.51825	758	3.49815	148	21.72328	22581	25.22143	22729
160	3.52583	947	3.49963	181	21.94909	21222	25.44872	21403
170	3.53530	1136	3.50144	219	22.16131	20019	25.66275	20238
180	3.54666	1320	3.50363	260	22.36150	18950	25.86513	19210
190	3.55986	1490	3.50623	305	22.55100	17992	26.05723	18297
200	3.57476	1645	3.50928	350	22.73092	17131	26.24020	17481
210	3.59121	1780	3.51278	397	22.90223	16350	26.41501	16747
220	3.60901	1895	3.51675	442	23.06573	15642	26.58248	16084
230	3.62796	1989	3.52117	486	23.22215	14996	26.74332	15482
240	3.64785	2063	3.52603	528	23.37211	14405	26.89814	14933
250	3.66848	2118	3.53131	568	23.51616	13861	27.04747	14429
260	3.68966	2156	3.53699	606	23.65477	13360	27.19176	13966
270	3.71122	2178	3.54305	639	23.78837	12896	27.33142	13535
280	3.73300	2187	3.54944	671	23.91733	12468	27.46677	13139
290	3.75487	2183	3.55615	699	24.04201	12067	27.59816	12766
300	3.77670	2168	3.56314	724	24.16268	11695	27.72582	12419
310	3.79838	2146	3.57038	746	24.27963	11348	27.85001	12094
320	3.81984	2116	3.57784	765	24.39311	11021	27.97095	11786
330	3.84100	2079	3.58549	782	24.50332	10715	28.08881	11497
340	3.86179	2038	3.59331	797	24.61047	10428	28.20378	11225
350	3.88217	1994	3.60128	808	24.71475	10156	28.31603	10964
360	3.90211	1945	3.60936	817	24.81631	9901	28.42567	10718
370	3.92156	1896	3.61753	825	24.91532	9658	28.53285	10483
380	3.94052	1845	3.62578	831	25.01190	9429	28.63768	10260
390	3.95897	1793	3.63409	835	25.10619	9211	28.74028	10046
400	3.97690	8184	3.64244	4183	25.19830	43144	28.84074	47327
450	4.05874	6953	3.68427	4102	25.62974	39031	29.31401	43133
500	4.12827	5876	3.72529	3938	26.02005	35692	29.74534	39630
550	4.18703	4974	3.76467	3732	26.37697	32918	30.14164	36650
600	4.23677	4231	3.80199	3512	26.70615	30573	30.50814	34085
650	4.27908	3624	3.83711	3290	27.01188	28558	30.84899	31848
700	4.31532	3132	3.87001	3075	27.29746	26806	31.16747	29881
750	4.34664	2729	3.90076	2875	27.56552	25268	31.46628	28143
800	4.37393	2396	3.92951	2685	27.81820	23904	31.74771	26589
850	4.39789	2133	3.95636	2514	28.05724	22685	32.01360	25199
900	4.41922	1914	3.98150	2355	28.28409	21591	32.26559	23946
950	4.43836	1736	4.00505	2211	28.50000	20601	32.50505	22812
1000	4.45572	1597	4.02716	2079	28.70601	19698	32.73317	21777
1050	4.47169	1485	4.04795	1961	28.90299	18877	32.95094	20838
1100	4.48654	1399	4.06756	1852	29.09176	18123	33.15932	19975
1150	4.50053	1335	4.08608	1755	29.27299	17427	33.35907	19182

Table 2.084. PbT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.51388	2550	4.10363	3254	29.44726	32977	33.55089	36231
1300	4.53938	2480	4.13617	2969	29.77703	30763	33.91320	33732
1400	4.56418	2493	4.16586	2738	30.08466	28836	34.25052	31574
1500	4.58911	2557	4.19324	2554	30.37302	27145	34.56626	29699
1600	4.61468	2648	4.21878	2406	30.64447	25649	34.86325	28055
1700	4.64116	2751	4.24284	2289	30.90096	24316	35.14380	26605
1800	4.66867	2849	4.26573	2195	31.14412	23124	35.40985	25319
1900	4.69716	2933	4.28768	2121	31.37536	22047	35.66304	24168
2000	4.72649	3000	4.30889	2059	31.59583	21073	35.90472	23132
2100	4.75649	3043	4.32948	2010	31.80656	20187	36.13604	22197
2200	4.78692	3064	4.34958	1969	32.00843	19379	36.35801	21348
2300	4.81756	3059	4.36927	1931	32.20222	18636	36.57149	20567
2400	4.84815	3034	4.38858	1899	32.38858	17954	36.77716	19853
2500	4.87849	2986	4.40757	1869	32.56812	17323	36.97569	19192
2600	4.90835	2922	4.42626	1840	32.74135	16740	37.16761	18580
2700	4.93757	2844	4.44466	1811	32.90875	16197	37.35341	18008
2800	4.96601	2751	4.46277	1783	33.07072	15691	37.53349	17474
2900	4.99352	2649	4.48060	1754	33.22763	15219	37.70823	16973
3000	5.02001	4964	4.49814	3420	33.37982	29141	37.87796	32561
3200	5.06965	4493	4.53234	3295	33.67123	27577	38.20357	30872
3400	5.11458	4014	4.56529	3165	33.94700	26184	38.51229	29349
3600	5.15472	3546	4.59694	3031	34.20884	24936	38.80578	27967
3800	5.19018	3103	4.62725	2894	34.45820	23809	39.08545	26703
4000	5.22121	2698	4.65619	2756	34.69629	22785	39.35248	25541
4200	5.24819	2333	4.68375	2620	34.92414	21851	39.60789	24471
4400	5.27152	2006	4.70995	2487	35.14265	20991	39.85260	23478
4600	5.29158	1721	4.73482	2357	35.35256	20202	40.08738	22559
4800	5.30879	1474	4.75839	2232	35.55458	19471	40.31297	21703
5000	5.32353		4.78071		35.74929		40.53000	

Table 2.085. NH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50715	- 172	3.31820	3134	12.19325	61119	15.51146	64253
60	3.50543	- 99	3.34954	2219	12.80444	52042	16.15399	54261
70	3.50444	- 59	3.37173	1655	13.32486	45311	16.69660	46965
80	3.50385	- 35	3.38828	1282	13.77797	40121	17.16625	41403
90	3.50350	- 20	3.40110	1023	14.17918	35998	17.58028	37021
100	3.50330	- 10	3.41133	835	14.53916	32642	17.95049	33479
110	3.50320	- 4	3.41968	696	14.86558	29860	18.28528	30556
120	3.50316	1	3.42664	589	15.16418	27515	18.59084	28103
130	3.50317	5	3.43253	505	15.43933	25511	18.87187	26014
140	3.50322	7	3.43758	438	15.69444	23778	19.13201	24217
150	3.50329	9	3.44196	383	15.93222	22267	19.37418	22651
160	3.50338	11	3.44579	339	16.15489	20936	19.60069	21275
170	3.50349	11	3.44918	302	16.36425	19756	19.81344	20059
180	3.50360	13	3.45220	271	16.56181	18702	20.01403	18971
190	3.50373	13	3.45491	245	16.74883	17753	20.20374	17998
200	3.50386	14	3.45736	221	16.92636	16897	20.38372	17119
210	3.50400	14	3.45957	203	17.09533	16120	20.55491	16322
220	3.50414	15	3.46160	185	17.25653	15411	20.71813	15597
230	3.50429	16	3.46345	170	17.41064	14762	20.87410	14931
240	3.50445	15	3.46515	157	17.55826	14164	21.02341	14323
250	3.50460	16	3.46672	147	17.69990	13616	21.16664	13761
260	3.50476	17	3.46819	136	17.83606	13105	21.30425	13241
270	3.50493	17	3.46955	126	17.96711	12633	21.43666	12760
280	3.50510	18	3.47081	118	18.09344	12194	21.56426	12313
290	3.50528	19	3.47199	112	18.21538	11784	21.68739	11894
300	3.50547	20	3.47311	105	18.33322	11400	21.80633	11505
310	3.50567	22	3.47416	98	18.44722	11042	21.92138	11140
320	3.50589	24	3.47514	94	18.55764	10704	22.03278	10799
330	3.50613	27	3.47608	89	18.66468	10387	22.14077	10475
340	3.50640	30	3.47697	84	18.76855	10088	22.24552	10174
350	3.50670	33	3.47781	81	18.86943	9807	22.34726	9886
360	3.50703	38	3.47862	78	18.96750	9539	22.44612	9617
370	3.50741	42	3.47940	73	19.06289	9287	22.54229	9362
380	3.50783	49	3.48013	73	19.15576	9048	22.63591	9118
390	3.50832	55	3.48086	69	19.24624	8820	22.72709	8889
400	3.50887	399	3.48155	323	19.33444	41052	22.81598	41377
450	3.51286	675	3.48478	312	19.74496	36754	23.22975	37065
500	3.51961	1023	3.48790	332	20.11250	33276	23.60040	33609
550	3.52984	1414	3.49122	378	20.44526	30408	23.93649	30786
600	3.54398	1807	3.49500	444	20.74934	28005	24.24435	28449
650	3.56205	2177	3.49944	523	21.02939	25963	24.52884	26485
700	3.58382	2501	3.50467	609	21.28902	24210	24.79369	24820
750	3.60883	2768	3.51076	698	21.53112	22688	25.04189	23385
800	3.63651	2975	3.51774	786	21.75800	21356	25.27574	22142
850	3.66626	3124	3.52560	868	21.97156	20183	25.49716	21050
900	3.69750	3219	3.53428	943	22.17339	19139	25.70766	20083
950	3.72969	3267	3.54371	1011	22.36478	18207	25.90849	19219
1000	3.76236	3277	3.55382	1071	22.54685	17369	26.10068	18441
1050	3.79513	3254	3.56453	1123	22.72054	16614	26.28509	17734
1100	3.82767	3206	3.57576	1164	22.88668	15923	26.46243	17090
1150	3.85973	3138	3.58740	1201	23.04591	15297	26.63333	16497

Table 2. 085. NH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.89111	6021	3.59941	2477	23.19888	28914	26.79830	31392
1300	3.95132	5627	3.62418	2541	23.48802	26956	27.11222	29496
1400	4.00759	5209	3.64959	2562	23.75758	25272	27.40718	27834
1500	4.05968	4794	3.67521	2555	24.01030	23805	27.68552	26360
1600	4.10762	4398	3.70076	2525	24.24835	22515	27.94912	25040
1700	4.15160	4031	3.72601	2478	24.47350	21372	28.19952	23849
1800	4.19191	3695	3.75079	2420	24.68722	20347	28.43801	22768
1900	4.22886	3390	3.77499	2356	24.89069	19426	28.66569	21781
2000	4.26276	3116	3.79855	2286	25.08495	18591	28.88350	20876
2100	4.29392	2870	3.82141	2213	25.27086	17831	29.09226	20046
2200	4.32262	2651	3.84354	2142	25.44917	17135	29.29272	19275
2300	4.34913	2455	3.86496	2069	25.62052	16495	29.48547	18564
2400	4.37368	2280	3.88565	1998	25.78547	15903	29.67111	17903
2500	4.39648	2123	3.90563	1929	25.94450	15358	29.85014	17286
2600	4.41771	1984	3.92492	1863	26.09808	14849	30.02300	16713
2700	4.43755	1858	3.94355	1798	26.24657	14377	30.19013	16173
2800	4.45613	1746	3.96153	1735	26.39034	13932	30.35186	15669
2900	4.47359	1646	3.97888	1677	26.52966	13519	30.50855	15195
3000	4.49005	3027	3.99565	3188	26.66485	25892	30.66050	29079
3200	4.52032	2731	4.02753	2979	26.92377	24509	30.95129	27489
3400	4.54763	2488	4.05732	2793	27.16886	23272	31.22618	26067
3600	4.57251	2286	4.08525	2626	27.40158	22161	31.48685	24786
3800	4.59537	2118	4.11151	2473	27.62319	21154	31.73471	23627
4000	4.61655	1977	4.13624	2335	27.83473	20239	31.97098	22574
4200	4.63632	1856	4.15959	2210	28.03712	19403	32.19672	21612
4400	4.65488	1755	4.18169	2095	28.23115	18636	32.41284	20732
4600	4.67243	1667	4.20264	1993	28.41751	17930	32.62016	19922
4800	4.68910	1591	4.22257	1898	28.59681	17277	32.81938	19175
5000	4.70501		4.24155		28.76958		33.01113	

Table 2. 086. ND

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50283	- 43	3.39615	1774	12.83882	62393	16.23498	64157
60	3.50240	- 20	3.41389	1263	13.46275	52944	16.87665	54207
70	3.50220	- 6	3.42652	946	13.99219	45985	17.41872	46929
80	3.50214	2	3.43598	735	14.45204	40642	17.88801	41378
90	3.50216	6	3.44333	589	14.85846	36413	18.30179	37001
100	3.50222	9	3.44922	482	15.22259	32982	18.67180	33464
110	3.50231	11	3.45404	402	15.55241	30140	19.00644	30545
120	3.50242	12	3.45806	342	15.85381	27753	19.31189	28093
130	3.50254	14	3.46148	294	16.13134	25714	19.59282	26038
140	3.50268	14	3.46442	255	16.38848	23955	19.85290	24210
150	3.50282	15	3.46697	224	16.62803	22420	20.09500	22646
160	3.50297	16	3.46921	200	16.85223	21072	20.32146	21270
170	3.50313	16	3.47121	177	17.06295	19876	20.53416	20055
180	3.50329	16	3.47298	161	17.26171	18810	20.73471	18969
190	3.50345	17	3.47459	144	17.44981	17850	20.92440	17994
200	3.50362	18	3.47603	132	17.62831	16985	21.10434	17118
210	3.50380	20	3.47735	121	17.79816	16199	21.27552	16320
220	3.50400	22	3.47856	111	17.96015	15484	21.43872	15594
230	3.50422	24	3.47967	102	18.11499	14828	21.59466	14939
240	3.50446	29	3.48069	96	18.26327	14226	21.74396	14323
250	3.50475	34	3.48165	90	18.40553	13671	21.88719	13760
260	3.50509	41	3.48255	83	18.54224	13158	22.02479	13243
270	3.50550	49	3.48338	81	18.67382	12682	22.15722	12761
280	3.50599	59	3.48419	76	18.80064	12239	22.28483	12315
290	3.50658	71	3.48495	74	18.92303	11827	22.40798	11900
300	3.50729	85	3.48569	71	19.04130	11440	22.52698	11512
310	3.50814	101	3.48640	69	19.15570	11079	22.64210	11148
320	3.50915	118	3.48709	69	19.26649	10741	22.75358	10809
330	3.51033	138	3.48778	68	19.37390	10421	22.86167	10490
340	3.51171	159	3.48846	68	19.47811	10121	22.96657	10190
350	3.51330	181	3.48914	70	19.57932	9837	23.06847	9906
360	3.51511	206	3.48984	71	19.67769	9570	23.16753	9641
370	3.51717	231	3.49055	73	19.77339	9316	23.26394	9390
380	3.51948	257	3.49128	76	19.86655	9076	23.35784	9151
390	3.52205	285	3.49204	78	19.95731	8848	23.44935	8927
400	3.52490	1849	3.49282	453	20.04579	41191	23.53862	41642
450	3.54339	2552	3.49735	582	20.45770	36897	23.95504	37480
500	3.56891	3177	3.50317	737	20.82667	33438	24.32984	34177
550	3.60068	3671	3.51054	902	21.16105	30598	24.67161	31499
600	3.63739	4019	3.51956	1059	21.46703	28224	24.98660	29282
650	3.67758	4228	3.53015	1203	21.74927	26214	25.27942	27419
700	3.71986	4319	3.54218	1329	22.01141	24493	25.55361	25819
750	3.76305	4314	3.55547	1433	22.25634	22999	25.81180	24432
800	3.80619	4240	3.56980	1515	22.48633	21694	26.05612	23210
850	3.84859	4114	3.58495	1580	22.70327	20541	26.28822	22121
900	3.88973	3955	3.60075	1626	22.90868	19518	26.50943	21143
950	3.92928	3775	3.61701	1656	23.10386	18599	26.72086	20256
1000	3.96703	3586	3.63357	1674	23.28985	17773	26.92342	19447
1050	4.00289	3393	3.65031	1680	23.46758	17024	27.11789	18704
1100	4.03682	3201	3.66711	1678	23.63782	16342	27.30493	18020
1150	4.06883	3015	3.68389	1668	23.80124	15717	27.48513	17384

Table 2.086. ND (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.09898	5504	3.70057	3281	23.95841	29756	27.65897	33037
1300	4.15402	4866	3.73338	3181	24.25597	27789	27.98934	30972
1400	4.20268	4307	3.76519	3063	24.53386	26087	28.29906	29150
1500	4.24575	3824	3.79582	2934	24.79473	24596	28.59056	27529
1600	4.28399	3408	3.82516	2801	25.04069	23278	28.86585	26080
1700	4.31807	3052	3.85317	2669	25.27347	22103	29.12665	24772
1800	4.34859	2747	3.87986	2541	25.49450	21049	29.37437	23590
1900	4.37606	2486	3.90527	2417	25.70499	20096	29.61027	22512
2000	4.40092	2261	3.92944	2300	25.90595	19230	29.83539	21530
2100	4.42353	2068	3.95244	2189	26.09825	18440	30.05069	20629
2200	4.44421	1900	3.97433	2085	26.28265	17715	30.25698	19800
2300	4.46321	1755	3.99518	1987	26.45980	17047	30.45498	19034
2400	4.48076	1629	4.01505	1896	26.63027	16431	30.64532	18326
2500	4.49705	1518	4.03401	1810	26.79458	15858	30.82858	17670
2600	4.51223	1421	4.05211	1731	26.95316	15327	31.00528	17057
2700	4.52644	1336	4.06942	1656	27.10643	14831	31.17585	16487
2800	4.53980	1261	4.08598	1587	27.25474	14367	31.34072	15954
2900	4.55241	1194	4.10185	1522	27.39841	13933	31.50026	15455
3000	4.56435	2216	4.11707	2866	27.53774	26666	31.65481	29531
3200	4.58651	2026	4.14573	2652	27.80440	25215	31.95012	27870
3400	4.60677	1872	4.17225	2467	28.05655	23920	32.22882	26386
3600	4.62549	1746	4.19692	2303	28.29575	22756	32.49268	25058
3800	4.64295	1643	4.21995	2156	28.52331	21701	32.74326	23858
4000	4.65938	1556	4.24151	2027	28.74032	20746	32.98184	22772
4200	4.67494	1483	4.26178	1913	28.94778	19872	33.20956	21784
4400	4.68977	1420	4.28091	1808	29.14650	19070	33.42740	20879
4600	4.70397	1367	4.29899	1716	29.33720	18333	33.63619	20050
4800	4.71764	1321	4.31615	1633	29.52053	17654	33.83669	19286
5000	4.73085		4.33248		29.69707		34.02955	

Table 2.087. NT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50192	- 16	3.42155	1339	13.24727	62816	16.66884	64153
60	3.50176	- 2	3.43494	954	13.87543	53244	17.31037	54199
70	3.50174	5	3.44448	716	14.40787	46208	17.85236	46923
80	3.50179	9	3.45164	558	14.86995	40816	18.32159	41374
90	3.50188	12	3.45722	447	15.27811	36552	18.73533	36999
100	3.50200	13	3.46169	367	15.64363	33095	19.10532	33462
110	3.50213	14	3.46536	307	15.97458	30235	19.43994	30543
120	3.50227	15	3.46843	261	16.27693	27832	19.74537	28093
130	3.50242	15	3.47104	224	16.55525	25782	20.02630	26006
140	3.50257	16	3.47328	196	16.81307	24014	20.28636	24210
150	3.50273	17	3.47524	172	17.05321	22473	20.52846	22645
160	3.50290	17	3.47696	153	17.27794	21117	20.75491	21270
170	3.50307	19	3.47849	137	17.48911	19917	20.96761	20055
180	3.50326	21	3.47986	125	17.68828	18845	21.16816	18968
190	3.50347	24	3.48111	112	17.87673	17883	21.35784	17996
200	3.50371	30	3.48223	103	18.05556	17015	21.53780	17117
210	3.50401	36	3.48326	95	18.22571	16226	21.70897	16321
220	3.50437	45	3.48421	89	18.38797	15508	21.87218	15597
230	3.50482	58	3.48510	83	18.54305	14850	22.02815	14933
240	3.50540	72	3.48593	79	18.69155	14248	22.17748	14328
250	3.50612	90	3.48672	76	18.83403	13691	22.32076	13767
260	3.50702	110	3.48748	74	18.97094	13176	22.45843	13250
270	3.50812	135	3.48822	74	19.10270	12700	22.59093	12773
280	3.50947	163	3.48896	73	19.22970	12255	22.71866	12330
290	3.51110	191	3.48969	75	19.35225	11843	22.84196	11916
300	3.51301	224	3.49044	76	19.47068	11456	22.96112	11533
310	3.51525	259	3.49120	79	19.58524	11095	23.07645	11173
320	3.51784	294	3.49199	83	19.69619	10755	23.18818	10839
330	3.52078	333	3.49282	88	19.80374	10437	23.29657	10523
340	3.52411	371	3.49370	92	19.90811	10137	23.40180	10229
350	3.52782	410	3.49462	97	20.00948	9852	23.50409	9951
360	3.53192	451	3.49559	105	20.10800	9587	23.60360	9690
370	3.53643	490	3.49664	110	20.20387	9332	23.70050	9444
380	3.54133	530	3.49774	119	20.29719	9094	23.79494	9212
390	3.54663	569	3.49893	126	20.38813	8866	23.88706	8992
400	3.55232	3385	3.50019	760	20.47679	41293	23.97698	42053
450	3.58617	4142	3.50779	985	20.88972	37028	24.39751	38013
500	3.62759	4662	3.51764	1208	21.26000	33598	24.77764	34808
550	3.67421	4954	3.52972	1409	21.59598	30786	25.12572	32194
600	3.72375	5054	3.54381	1579	21.90384	28439	25.44766	30017
650	3.77429	5009	3.55960	1713	22.18823	26451	25.74783	28165
700	3.82438	4863	3.57673	1814	22.45274	24748	26.02948	26561
750	3.87301	4652	3.59487	1885	22.70022	23268	26.29509	25153
800	3.91953	4403	3.61372	1930	22.93290	21973	26.54662	23903
850	3.96356	4138	3.63302	1952	23.15263	20826	26.78565	22779
900	4.00494	3868	3.65254	1958	23.36089	19807	27.01344	21764
950	4.04362	3604	3.67212	1949	23.55896	18890	27.23108	20839
1000	4.07966	3351	3.69161	1928	23.74786	18062	27.43947	19990
1050	4.11317	3112	3.71089	1900	23.92848	17311	27.63937	19212
1100	4.14429	2889	3.72989	1866	24.10159	16625	27.83149	18490
1150	4.17318	2683	3.74855	1826	24.26784	15996	28.01639	17822

Table 2.087. NT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.20001	4812	3.76681	3522	24.42780	30297	28.19461	33818
1300	4.24813	4173	3.80203	3338	24.73077	28304	28.53279	31644
1400	4.28986	3641	3.83541	3154	25.01381	26574	28.84923	29729
1500	4.32627	3198	3.86695	2973	25.27955	25057	29.14652	28028
1600	4.35825	2829	3.89668	2800	25.53012	23712	29.42680	26512
1700	4.38654	2521	3.92468	2637	25.76724	22511	29.69192	25149
1800	4.41175	2262	3.95105	2486	25.99235	21433	29.94341	23918
1900	4.43437	2045	3.97591	2344	26.20668	20456	30.18259	22800
2000	4.45482	1860	3.99935	2213	26.41124	19569	30.41059	21783
2100	4.47342	1702	4.02148	2094	26.60693	18758	30.62842	20852
2200	4.49044	1569	4.04242	1983	26.79451	18016	30.83694	19998
2300	4.50613	1453	4.06225	1880	26.97467	17331	31.03692	19211
2400	4.52066	1354	4.08105	1786	27.14798	16697	31.22903	18483
2500	4.53420	1267	4.09891	1698	27.31495	16111	31.41386	17810
2600	4.54687	1192	4.11589	1619	27.47606	15566	31.59196	17184
2700	4.55879	1126	4.13208	1545	27.63172	15057	31.76380	16601
2800	4.57005	1067	4.14753	1475	27.78229	14580	31.92981	16056
2900	4.58072	1017	4.16228	1412	27.92809	14137	32.09037	15548
3000	4.59089	1902	4.17640	2651	28.06946	27041	32.24585	29693
3200	4.60991	1758	4.20291	2445	28.33987	25555	32.54278	28002
3400	4.62749	1641	4.22736	2270	28.59542	24230	32.82280	26498
3600	4.64390	1546	4.25006	2114	28.83772	23038	33.08778	25153
3800	4.65936	1468	4.27120	1977	29.06810	21960	33.33931	23938
4000	4.67404	1403	4.29097	1858	29.28770	20983	33.57869	22840
4200	4.68807	1347	4.30955	1752	29.49753	20090	33.80709	21841
4400	4.70154	1300	4.32707	1656	29.69843	19272	34.02550	20929
4600	4.71454	1260	4.34363	1572	29.89115	18520	34.23479	20092
4800	4.72714	1225	4.35935	1496	30.07635	17828	34.43571	19323
5000	4.73939		4.37431		30.25463		34.62894	

Table 2. 088. PH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50276	- 44	3.38980	1878	13.90836	62523	17.29816	64401
60	3.50232	- 20	3.40858	1338	14.53359	53037	17.94217	54375
70	3.50212	- 6	3.42196	1001	15.06396	46054	18.48592	47055
80	3.50206		3.43197	779	15.52450	40595	18.95647	41475
90	3.50206	6	3.43976	623	15.93146	36456	19.37122	37679
100	3.50212	8	3.44599	511	16.29602	33017	19.74201	33528
110	3.50220	10	3.45110	426	16.62619	30171	20.07729	30597
120	3.50230	12	3.45536	362	16.92790	27777	20.38326	28139
130	3.50242	13	3.45898	311	17.20567	25735	20.66465	26046
140	3.50255	13	3.46209	270	17.46302	23973	20.92511	24243
150	3.50268	14	3.46479	237	17.70275	22437	21.16754	22674
160	3.50282	15	3.46716	211	17.92712	21086	21.39428	21297
170	3.50297	15	3.46927	187	18.13798	19888	21.60725	20075
180	3.50312	15	3.47114	169	18.33686	18820	21.80800	18989
190	3.50327	17	3.47283	152	18.52506	17859	21.99789	18011
200	3.50344	17	3.47435	139	18.70365	16995	22.17800	17134
210	3.50361	18	3.47574	127	18.87360	16206	22.34934	16333
220	3.50379	21	3.47701	117	19.03566	15492	22.51267	15609
230	3.50400	24	3.47818	108	19.19058	14834	22.66876	14942
240	3.50424	27	3.47926	101	19.33892	14233	22.81818	14334
250	3.50451	33	3.48027	93	19.48125	13677	22.96152	13770
260	3.50484	39	3.48120	89	19.61802	13163	23.09922	13252
270	3.50523	47	3.48209	82	19.74965	12686	23.23174	12768
280	3.50570	57	3.48291	81	19.87651	12243	23.35942	12324
290	3.50627	69	3.48372	76	19.99894	11831	23.48266	11907
300	3.50696	82	3.48448	74	20.11725	11444	23.60173	11518
310	3.50778	98	3.48522	71	20.23169	11073	23.71691	11154
320	3.50876	115	3.48593	72	20.34252	10744	23.82845	10816
330	3.50991	135	3.48665	70	20.44996	10424	23.93661	10494
340	3.51126	155	3.48735	70	20.55420	10123	24.04155	10193
350	3.51281	177	3.48805	72	20.65543	9841	24.14348	9913
360	3.51458	202	3.48877	72	20.75384	9572	24.24261	9644
370	3.51660	226	3.48949	75	20.84956	9318	24.33905	9393
380	3.51886	253	3.49024	76	20.94274	9078	24.43298	9154
390	3.52139	279	3.49100	79	21.03352	8850	24.52452	8929
400	3.52418	1821	3.49179	455	21.12202	41198	24.61381	41653
450	3.54239	2522	3.49634	581	21.53400	36903	25.03034	37484
500	3.56761	3147	3.50215	734	21.90303	33442	25.40518	34176
550	3.59908	3645	3.50949	895	22.23745	30598	25.74694	31493
600	3.63553	3998	3.51844	1053	22.54343	28225	26.06187	29278
650	3.67551	4213	3.52897	1197	22.82568	26213	26.35465	27410
700	3.71764	4310	3.54094	1320	23.08781	24489	26.62875	25809
750	3.76074	4310	3.55414	1427	23.33270	22997	26.88684	24424
800	3.80384	4241	3.56841	1510	23.56267	21690	27.13108	23200
850	3.84625	4120	3.58351	1574	23.77957	20538	27.36308	22113
900	3.88745	3964	3.59925	1622	23.98495	19513	27.58421	21134
950	3.92709	3788	3.61547	1653	24.18008	18596	27.79555	20250
1000	3.96497	3601	3.63200	1673	24.36604	17768	27.99805	19441
1050	4.00098	3409	3.64873	1679	24.54372	17020	28.19246	18699
1100	4.03507	3219	3.66552	1678	24.71392	16337	28.37945	18014
1150	4.06726	3034	3.68230	1667	24.87729	15713	28.55959	17381

Table 2.088. PH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.09760	5545	3.69897	3284	25.03442	29748	28.73340	33033
1300	4.15305	4908	3.73181	3188	25.33190	27783	29.06373	30969
1400	4.20213	4348	3.76369	3071	25.60973	26080	29.37342	29151
1500	4.24561	3865	3.79440	2943	25.87053	24590	29.66493	27533
1600	4.28426	3448	3.82383	2812	26.11643	23272	29.94026	26085
1700	4.31874	3090	3.85195	2681	26.34915	22100	30.20111	24779
1800	4.34964	2785	3.87876	2552	26.57015	21045	30.44890	23598
1900	4.37749	2521	3.90428	2430	26.78060	20092	30.68488	22524
2000	4.40270	2296	3.92858	2313	26.98152	19228	30.91012	21540
2100	4.42566	2101	3.95171	2203	27.17380	18439	31.12552	20641
2200	4.44667	1932	3.97374	2100	27.35819	17714	31.33193	19814
2300	4.46599	1785	3.99474	2000	27.53533	17047	31.53007	19047
2400	4.48384	1658	4.01474	1910	27.70580	16430	31.72054	18340
2500	4.50042	1547	4.03384	1825	27.87010	15860	31.90394	17685
2600	4.51589	1449	4.05209	1745	28.02870	15328	32.08079	17073
2700	4.53038	1362	4.06954	1670	28.18198	14832	32.25152	16502
2800	4.54400	1287	4.08624	1601	28.33030	14370	32.41654	15971
2900	4.55687	1219	4.10225	1536	28.47400	13935	32.57625	15471
3000	4.56906	2265	4.11761	2894	28.61335	26671	32.73096	29565
3200	4.59171	2071	4.14655	2680	28.88006	25223	33.02661	27903
3400	4.61242	1917	4.17335	2493	29.13229	23928	33.30564	26421
3600	4.63159	1788	4.19828	2329	29.37157	22765	33.56985	25094
3800	4.64947	1684	4.22157	2182	29.59922	21712	33.82079	23894
4000	4.66631	1595	4.24339	2052	29.81634	20756	34.05973	22808
4200	4.68226	1521	4.26391	1935	30.02390	19882	34.28781	21817
4400	4.69747	1457	4.28326	1833	30.22272	19082	34.50598	20915
4600	4.71204	1403	4.30159	1740	30.41354	18346	34.71513	20086
4800	4.72607	1356	4.31899	1655	30.59700	17667	34.91599	19322
5000	4.73963		4.33554		30.77367		35.10921	

Table 2. 089. PD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50148	4	3.42963	1198	14.57383	63157	18.00346	64356
60	3.50144	4	3.44161	855	15.20540	53489	18.64702	54343
70	3.50148	9	3.45016	642	15.74029	46390	19.19045	47032
80	3.50157	11	3.45658	500	16.20419	40957	19.66077	41458
90	3.50168	13	3.46158	402	16.61376	36665	20.07535	37066
100	3.50181	14	3.46560	329	16.98041	33187	20.44601	33518
110	3.50195	14	3.46889	277	17.31228	30313	20.78119	30588
120	3.50209	16	3.47166	235	17.61541	27897	21.08707	28131
130	3.50225	16	3.47401	202	17.89438	25837	21.36838	26041
140	3.50241	17	3.47603	176	18.15275	24062	21.62879	24238
150	3.50258	20	3.47779	156	18.39337	22515	21.87117	22670
160	3.50278	24	3.47935	138	18.61852	21154	22.09787	21293
170	3.50302	31	3.48073	125	18.83006	19950	22.31080	20074
180	3.50333	41	3.48198	113	19.02956	18874	22.51154	18987
190	3.50374	55	3.48311	105	19.21830	17910	22.70141	18015
200	3.50429	74	3.48416	97	19.39740	17038	22.88156	17136
210	3.50503	96	3.48513	93	19.56778	16249	22.05292	16340
220	3.50599	124	3.48606	89	19.73027	15528	23.21632	15619
230	3.50723	159	3.48695	88	19.88555	14870	23.37251	14958
240	3.50882	195	3.48783	88	20.03425	14266	23.52209	14353
250	3.51077	238	3.48871	89	20.17691	13709	23.66562	13798
260	3.51315	285	3.48960	92	20.31400	13193	23.80360	13285
270	3.51600	333	3.49052	97	20.44593	12716	23.93645	12814
280	3.51933	385	3.49149	103	20.57309	12273	24.06459	12375
290	3.52318	439	3.49252	109	20.69582	11860	24.18834	11970
300	3.52757	493	3.49361	118	20.81442	11474	24.30804	11591
310	3.53250	548	3.49479	125	20.92916	11114	24.42395	11239
320	3.53798	603	3.49604	137	21.04030	10774	24.53634	10911
330	3.54401	656	3.49741	146	21.14804	10457	24.64545	10603
340	3.55057	708	3.49887	158	21.25261	10157	24.75148	10315
350	3.55765	759	3.50045	169	21.35418	9876	24.85463	10045
360	3.56524	806	3.50214	181	21.45294	9609	24.95508	9791
370	3.57330	852	3.50395	195	21.54903	9359	25.05299	9553
380	3.58182	895	3.50590	205	21.64262	9119	25.14852	9324
390	3.59077	935	3.50795	219	21.73381	8894	25.24176	9114
400	3.60012	5158	3.51014	1279	21.82275	41457	25.33290	42736
450	3.65170	5689	3.52293	1569	22.23732	37231	25.76026	38801
500	3.70859	5887	3.53862	1814	22.60963	33839	26.14827	35650
550	3.76746	5838	3.55676	1999	22.94802	31055	26.50477	33056
600	3.82584	5627	3.57675	2134	23.25857	28733	26.83533	30867
650	3.88211	5319	3.59809	2221	23.54590	26764	27.14400	28983
700	3.93530	4963	3.62030	2268	23.81354	25068	27.43383	27337
750	3.98493	4591	3.64298	2282	24.06422	23597	27.70720	25880
800	4.03084	4226	3.66580	2273	24.30019	22304	27.96600	24577
850	4.07310	3876	3.68853	2246	24.52323	21157	28.21177	23402
900	4.11186	3550	3.71099	2205	24.73480	20133	28.44579	22338
950	4.14736	3251	3.73304	2154	24.93613	19211	28.66917	21365
1000	4.17987	2978	3.75458	2097	25.12824	18376	28.88282	20474
1050	4.20965	2730	3.77555	2036	25.31200	17619	29.08756	19654
1100	4.23695	2509	3.79591	1973	25.48819	16923	29.28410	18896
1150	4.26204	2308	3.81564	1909	25.65742	16286	29.47306	18194

Table 2. 089. PD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.28512	4096	3.83473	3626	25.82028	30849	29.65500	34475
1300	4.32608	3515	3.87099	3379	26.12877	28820	29.99975	32201
1400	4.36123	3046	3.90478	3148	26.41697	27057	30.32176	30203
1500	4.39169	2665	3.93626	2931	26.68754	25505	30.62379	28436
1600	4.41834	2355	3.96557	2734	26.94259	24130	30.90815	26864
1700	4.44189	2100	3.99291	2553	27.18389	22900	31.17679	25455
1800	4.46289	1888	4.01844	2390	27.41289	21796	31.43134	24186
1900	4.48177	1713	4.04234	2240	27.63085	20796	31.67320	23037
2000	4.49890	1566	4.06474	2106	27.83881	19887	31.90357	21991
2100	4.51456	1441	4.08580	1982	28.03768	19057	32.12348	21040
2200	4.52897	1335	4.10562	1870	28.22825	18295	32.33388	20165
2300	4.54232	1245	4.12432	1768	28.41120	17594	32.53553	19361
2400	4.55477	1168	4.14200	1675	28.58714	16945	32.72914	18620
2500	4.56645	1100	4.15875	1589	28.75659	16344	32.91534	17934
2600	4.57745	1043	4.17464	1511	28.92003	15786	33.09468	17298
2700	4.58788	991	4.18975	1440	29.07789	15265	33.26766	16705
2800	4.59779	947	4.20415	1374	29.23054	14779	33.43471	16153
2900	4.60726	907	4.21789	1313	29.37833	14324	33.59624	15635
3000	4.61633	1715	4.23102	2463	29.52157	27390	33.75259	29853
3200	4.63348	1604	4.25565	2269	29.79547	25871	34.05112	28141
3400	4.64952	1514	4.27834	2106	30.05418	24518	34.33253	26622
3600	4.66466	1442	4.29940	1963	30.29936	23301	34.59875	25261
3800	4.67908	1381	4.31900	1835	30.53237	22202	34.85136	24038
4000	4.69289	1331	4.33735	1725	30.75439	21206	35.09174	22931
4200	4.70620	1288	4.35460	1627	30.96645	20297	35.32105	21926
4400	4.71908	1252	4.37087	1542	31.16942	19465	35.54031	21005
4600	4.73160	1219	4.38629	1464	31.36407	18701	35.75036	20166
4800	4.74379	1192	4.40093	1396	31.55108	17996	35.95202	19390
5000	4.75571		4.41489		31.73104		36.14592	

Table 2.090. PT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50121	4	3.44311	968	14.98448	63361	18.42759	64330
60	3.50125	10	3.45279	693	15.61809	53634	19.07089	54327
70	3.50135	12	3.45972	521	16.15443	46499	19.61416	47020
80	3.50147	13	3.46493	407	16.61942	41042	20.08436	41448
90	3.50160	15	3.46900	327	17.02984	36733	20.49884	37060
100	3.50175	15	3.47227	268	17.39717	33242	20.86944	33510
110	3.50190	17	3.47495	226	17.72959	30359	21.20454	30584
120	3.50207	19	3.47721	191	18.03318	27935	21.51038	28129
130	3.50226	24	3.47912	167	18.31253	25871	21.79167	26036
140	3.50250	34	3.48079	146	18.57124	24091	22.05203	24237
150	3.50284	48	3.48225	129	18.81215	22541	22.29440	22670
160	3.50332	70	3.48354	119	19.03756	21176	22.52110	21296
170	3.50402	100	3.48473	110	19.24932	19970	22.73406	20079
180	3.50502	137	3.48583	104	19.44902	18894	22.93485	18998
190	3.50639	186	3.48687	102	19.63796	17926	23.12483	18029
200	3.50825	240	3.48789	103	19.81722	17056	23.30512	17158
210	3.51065	302	3.48892	105	19.98778	16265	23.47670	16370
220	3.51367	372	3.48997	111	20.15043	15545	23.64040	15657
230	3.51739	445	3.49108	118	20.30588	14887	23.79697	15006
240	3.52184	523	3.49226	129	20.45475	14284	23.94703	14411
250	3.52707	601	3.49355	140	20.59759	13727	24.09114	13868
260	3.53308	680	3.49495	154	20.73486	13215	24.22982	13308
270	3.53988	759	3.49649	169	20.86701	12739	24.36350	12907
280	3.54747	835	3.49818	184	20.99440	12297	24.49257	12481
290	3.55582	908	3.50002	200	21.11737	11885	24.61738	12088
300	3.56490	977	3.50202	218	21.23622	11503	24.73826	11720
310	3.57467	1041	3.50420	237	21.35125	11144	24.85546	11380
320	3.58508	1100	3.50657	255	21.46269	10808	24.96926	11063
330	3.59608	1155	3.50912	272	21.57077	10493	25.07989	10766
340	3.60763	1204	3.51184	291	21.67570	10197	25.18755	10487
350	3.61967	1245	3.51475	309	21.77767	9917	25.29242	10226
360	3.63213	1284	3.51784	326	21.87684	9654	25.39468	9980
370	3.64497	1317	3.52110	343	21.97338	9405	25.49448	9749
380	3.65814	1343	3.52453	359	22.06743	9170	25.59197	9530
390	3.67157	1366	3.52812	376	22.15913	8947	25.68727	9322
400	3.68523	7005	3.53188	2092	22.24860	41759	25.78049	43850
450	3.75528	6983	3.55280	2375	22.66619	37586	26.21899	39962
500	3.82511	6666	3.57655	2566	23.04205	34234	26.61861	36800
550	3.89177	6193	3.60221	2675	23.38439	31480	26.98661	34154
600	3.95370	5660	3.62896	2719	23.69919	29174	27.32815	31893
650	4.01030	5120	3.65615	2716	23.99093	27211	27.64708	29927
700	4.06150	4608	3.68331	2677	24.26304	25518	27.94635	28196
750	4.10758	4135	3.71008	2616	24.51822	24040	28.22831	26556
800	4.14893	3711	3.73624	2539	24.75862	22739	28.49487	25277
850	4.18604	3332	3.76163	2452	24.98601	21580	28.74764	24033
900	4.21936	2999	3.78615	2361	25.20181	20543	28.98797	22903
950	4.24935	2704	3.80976	2266	25.40724	19608	29.21700	21874
1000	4.27639	2447	3.83242	2173	25.60332	18758	29.43574	20932
1050	4.30086	2221	3.85415	2082	25.79090	17984	29.64506	20066
1100	4.32307	2022	3.87497	1993	25.97074	17275	29.84572	19268
1150	4.34329	1848	3.89490	1907	26.14349	16623	30.03840	18530

Table 2.090. PT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.36177	3254	3.91397	3574	26.30972	31482	30.22370	35055
1300	4.39431	2773	3.94971	3277	26.62454	29400	30.57425	32677
1400	4.42204	2396	3.98248	3012	26.91854	27589	30.90102	3060
1500	4.44600	2096	4.01260	2776	27.19442	25992	31.20702	28768
1600	4.46696	1854	4.04036	2564	27.45434	24578	31.49470	27144
1700	4.48550	1661	4.06600	2378	27.70012	23314	31.76614	25690
1800	4.50211	1500	4.08978	2211	27.93326	22176	32.02304	24387
1900	4.51711	1369	4.11189	2060	28.15502	21149	32.26691	23210
2000	4.53080	1260	4.13249	1928	28.36651	20213	32.49901	22139
2100	4.54340	1169	4.15177	1806	28.56864	19359	32.72040	21167
2200	4.55509	1091	4.16983	1700	28.76223	18577	32.93207	20275
2300	4.56600	1025	4.18683	1601	28.94800	17855	33.13482	19458
2400	4.57625	969	4.20284	1513	29.12655	17190	33.32940	18704
2500	4.58594	921	4.21797	1433	29.29845	16574	33.51644	18006
2600	4.59515	878	4.23230	1360	29.46419	16001	33.69650	17361
2700	4.60393	842	4.24590	1294	29.62420	15466	33.87011	16761
2800	4.61235	811	4.25884	1233	29.77886	14969	34.03772	16201
2900	4.62046	782	4.27117	1177	29.92855	14502	34.19973	15679
3000	4.62828	1492	4.28294	2206	30.07357	27716	34.35652	29922
3200	4.64320	1412	4.30500	2031	30.35073	26163	34.65574	28194
3400	4.65732	1350	4.32531	1882	30.61236	24779	34.93768	26662
3600	4.67082	1296	4.34413	1754	30.86015	23537	35.20430	25291
3800	4.68378	1254	4.36167	1642	31.09552	22417	35.45721	24059
4000	4.69632	1217	4.37809	1545	31.31969	21401	35.69780	22945
4200	4.70849	1186	4.39354	1458	31.53370	20474	35.92725	21932
4400	4.72035	1160	4.40812	1383	31.73844	19628	36.14657	21011
4600	4.73195	1135	4.42195	1315	31.93472	18848	36.35668	20164
4800	4.74330	1116	4.43510	1256	32.12320	18132	36.55832	19386
5000	4.75446		4.44766		32.30452		36.75218	

Table 2.091 BiH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50153	4	3.45146	834	16.11208	63006	19.56354	63840
60	3.50157	11	3.45980	598	16.74214	53380	20.20194	53978
70	3.50168	14	3.46578	449	17.27594	46310	20.74172	46759
80	3.50182	16	3.47027	352	17.73904	40895	21.20931	41247
90	3.50198	18	3.47379	283	18.14799	36616	21.62178	36899
100	3.50216	18	3.47662	233	18.51415	33147	21.99077	33380
110	3.50234	19	3.47895	195	18.84562	30279	22.32457	30474
120	3.50253	19	3.48090	167	19.14841	27869	22.62931	28036
130	3.50272	20	3.48257	145	19.42710	25814	22.90967	25959
140	3.50292	22	3.48402	127	19.68524	24042	23.16926	24169
150	3.50314	25	3.48529	112	19.92566	22497	23.41095	22609
160	3.50339	30	3.48641	101	20.15063	21139	23.63704	21240
170	3.50369	37	3.48742	91	20.36202	19936	23.84944	20027
180	3.50406	49	3.48833	84	20.56138	18863	24.04971	18947
190	3.50455	65	3.48917	79	20.75001	17899	24.23918	17978
200	3.50520	85	3.48996	74	20.92900	17030	24.41896	17104
210	3.50605	111	3.49070	72	21.09930	16240	24.59000	16312
220	3.50716	141	3.49142	72	21.26170	15522	24.75312	15594
230	3.50857	179	3.49214	72	21.41692	14864	24.90906	14936
240	3.51036	219	3.49286	74	21.56556	14260	25.05842	14334
250	3.51255	265	3.49360	78	21.70816	13703	25.20176	13781
260	3.51520	314	3.49438	83	21.84519	13190	25.33957	13273
270	3.51834	366	3.49521	89	21.97709	12713	25.47230	12802
280	3.52200	421	3.49610	96	22.10422	12270	25.60032	12366
290	3.52621	477	3.49706	105	22.22692	11857	25.72398	11962
300	3.53098	534	3.49811	115	22.34549	11472	25.84360	11587
310	3.53632	591	3.49926	124	22.46021	11112	25.95947	11236
320	3.54223	647	3.50050	137	22.57133	10773	26.07183	10910
330	3.54870	702	3.50187	147	22.67906	10457	26.18093	10604
340	3.55572	756	3.50334	161	22.78363	10157	26.28697	10318
350	3.56328	807	3.50495	173	22.88520	9876	26.39015	10049
360	3.57135	855	3.50668	186	22.98396	9611	26.49064	9797
370	3.57990	901	3.50854	200	23.08007	9359	26.58861	9559
380	3.58891	944	3.51054	213	23.17366	9122	26.68420	9335
390	3.59835	986	3.51267	226	23.26488	8896	26.77755	9122
400	3.60821	5402	3.51493	1331	23.35384	41473	26.86877	42804
450	3.66223	5923	3.52824	1632	23.76857	37256	27.29681	38888
500	3.72146	6129	3.54456	1887	24.14113	33871	27.68569	35758
550	3.78275	6119	3.56343	2083	24.47984	31093	28.04327	33176
600	3.84394	5993	3.58426	2228	24.79077	28777	28.37503	31005
650	3.90387	5821	3.60654	2334	25.07854	26812	28.68508	29146
700	3.96208	5652	3.62988	2404	25.34666	25125	28.97654	27529
750	4.01860	5511	3.65392	2451	25.59791	23661	29.25183	26112
800	4.07371	5409	3.67843	2485	25.83452	22374	29.51295	24859
850	4.12780	5347	3.70328	2507	26.05826	21238	29.76154	23745
900	4.18127	5316	3.72835	2524	26.27064	20226	29.99899	22750
950	4.23443	5308	3.75359	2537	26.47290	19318	30.22649	21855
1000	4.28751	5313	3.77896	2548	26.66608	18499	30.44504	21047
1050	4.34064	5320	3.80444	2559	26.85107	17757	30.65551	20316
1100	4.39384	5323	3.83003	2566	27.02864	17082	30.85867	19648
1150	4.44707	5313	3.85569	2576	27.19946	16464	31.05515	19040

Table 2. 091. BiH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.50020	10528	3.88145	5165	27.36410	31273	31.24555	36438
1300	4.60548	10254	3.93310	5171	27.67683	29336	31.60993	34507
1400	4.70802	9807	3.98481	5151	27.97019	27668	31.95500	32819
1500	4.80609	9204	4.03632	5103	28.24687	26214	32.28319	31317
1600	4.89813	8479	4.08735	5022	28.50901	24930	32.59636	29952
1700	4.98292	7672	4.13757	4914	28.75831	23790	32.89588	28704
1800	5.05964	6823	4.18671	4777	28.99621	22764	33.18292	27541
1900	5.12787	5966	4.23448	4620	29.22385	21839	33.45833	26459
2000	5.18753	5127	4.28068	4443	29.44224	20993	33.72292	25436
2100	5.23880	4328	4.32511	4255	29.65217	20220	33.97728	24475
2200	5.28208	3583	4.36766	4056	29.85437	19505	34.22203	23561
2300	5.31791	2904	4.40822	3853	30.04942	18844	34.45764	22697
2400	5.34695	2292	4.44675	3649	30.23786	18227	34.68461	21876
2500	5.36987	1749	4.48324	3445	30.42013	17651	34.90337	21096
2600	5.38736	1274	4.51769	3247	30.59664	17112	35.11433	20359
2700	5.40010	863	4.55016	3051	30.76776	16603	35.31792	19654
2800	5.40873	512	4.58067	2865	30.93379	16125	35.51446	18990
2900	5.41385	215	4.60932	2687	31.09504	15672	35.70436	18359
3000	5.41600	- 269	4.63619	2489	31.25176	15080	35.88795	17749
3200	5.41331	- 936	4.68488	4260	31.55256	28532	36.23744	32792
3400	5.40395	- 1352	4.72748	3722	31.83788	27130	36.56536	30852
3600	5.39043	- 1584	4.76470	3252	32.10918	25851	36.87388	29103
3800	5.37459	- 1682	4.79722	2845	32.36769	24680	37.16491	27525
4000	5.35777	- 1688	4.82567	2494	32.61449	23607	37.44016	26101
4200	5.34089	- 1630	4.85061	2192	32.85056	22616	37.70117	24808
4400	5.32459	- 1533	4.87253	1930	33.07672	21703	37.94925	23633
4600	5.30926	- 1410	4.89183	1710	33.29375	20856	38.18558	22566
4800	5.29516	- 1274	4.90893	1520	33.50231	20071	38.41124	21591
5000	5.28242		4.92413		33.70302		38.62715	

Table 2.092. BiD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50114	17	3.47578	424	16.77504	63411	20.25082	63835
60	3.50131	18	3.48002	306	17.40915	53669	20.88917	53975
70	3.50149	18	3.48308	231	17.94584	46526	21.42892	46757
80	3.50167	20	3.48539	182	18.41110	41063	21.89649	41245
90	3.50187	21	3.48721	148	18.82173	36749	22.30894	36897
100	3.50208	23	3.48869	122	19.18922	33257	22.67791	33379
110	3.50231	31	3.48991	105	19.52179	30371	23.01170	30476
120	3.50262	44	3.49096	91	19.82550	27946	23.31646	28037
130	3.50306	66	3.49187	82	20.10496	25881	23.59683	25963
140	3.50372	102	3.49269	77	20.36377	24039	23.85646	24176
150	3.50474	150	3.49346	75	20.60476	22549	24.09822	22624
160	3.50624	214	3.49421	77	20.83025	21186	24.32446	21263
170	3.50838	289	3.49498	82	21.04211	19979	24.53709	20061
180	3.51127	378	3.49580	91	21.24190	18903	24.73770	18994
190	3.51505	476	3.49671	103	21.43093	17939	24.92764	18042
200	3.51981	580	3.49774	118	21.61032	17068	25.10806	17186
210	3.52561	689	3.49892	137	21.78100	16280	25.27992	16417
220	3.53250	799	3.50029	157	21.94380	15563	25.44409	15720
230	3.54049	907	3.50186	179	22.09943	14907	25.60129	15086
240	3.54956	1012	3.50365	204	22.24850	14307	25.75215	14511
250	3.55968	1111	3.50569	229	22.39157	13754	25.89726	13983
260	3.57079	1202	3.50798	254	22.52911	13244	26.03709	13498
270	3.58281	1287	3.51052	281	22.66155	12772	26.17207	13053
280	3.59568	1363	3.51333	307	22.78927	12334	26.30260	12641
290	3.60931	1430	3.51640	334	22.91261	11927	26.42901	12261
300	3.62361	1487	3.51974	359	23.03188	11547	26.55162	11906
310	3.63848	1536	3.52333	383	23.14735	11192	26.67068	11575
320	3.65384	1577	3.52716	408	23.25927	10860	26.78643	11268
330	3.66961	1609	3.53124	431	23.36787	10548	26.89911	10979
340	3.68570	1633	3.53555	452	23.47335	10255	27.00890	10707
350	3.70203	1651	3.54007	473	23.57590	9979	27.11597	10452
360	3.71854	1661	3.54480	492	23.67569	9719	27.22049	10211
370	3.73515	1667	3.54972	510	23.77288	9473	27.32260	9983
380	3.75182	1666	3.55482	526	23.86761	9241	27.42243	9767
390	3.76848	1664	3.56008	542	23.96002	9020	27.52010	9562
400	3.78512	8104	3.56550	2895	24.05022	42160	27.61572	45055
450	3.86616	7547	3.59445	3039	24.47182	38031	28.06627	41130
500	3.94163	6866	3.62544	3192	24.85213	34704	28.47757	37896
550	4.01029	6192	3.65736	3204	25.19917	31959	28.85653	35163
600	4.07221	5599	3.68940	3163	25.51876	29657	29.20816	32820
650	4.12820	5122	3.72103	3094	25.81533	27670	29.53636	30784
700	4.17942	4764	3.75197	3010	26.09223	25989	29.84420	28999
750	4.22706	4521	3.78207	2923	26.35212	24503	30.13419	27426
800	4.27227	4376	3.81130	2841	26.59715	23191	30.40845	26032
850	4.31603	4310	3.83971	2766	26.82906	22026	30.66877	24792
900	4.35913	4301	3.86737	2702	27.04932	20983	30.91669	23685
950	4.40214	4331	3.89439	2647	27.25915	20043	31.15354	22690
1000	4.44545	4382	3.92086	2602	27.45958	19193	31.38044	21795
1050	4.48927	4442	3.94688	2566	27.65151	18420	31.59839	20986
1100	4.53369	4498	3.97254	2537	27.83571	17714	31.80825	20251
1150	4.57867	4542	3.99791	2515	28.01285	17068	32.01076	19583

Table 2. 092. BiD (Cont.)

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.62409	9137	4.02306	4975	28.18353	32400	32.20659	37375
1300	4.71546	9049	4.07281	4914	28.50753	30362	32.58034	35276
1400	4.80595	8764	4.12195	4854	28.81115	28605	32.93310	33459
1500	4.89359	8300	4.17049	4782	29.09720	27069	33.26769	31851
1600	4.97659	7693	4.21831	4690	29.36789	25714	33.58620	30404
1700	5.05352	6987	4.26521	4577	29.62503	24510	33.89024	29087
1800	5.12339	6222	4.31098	4443	29.87013	23428	34.18111	27871
1900	5.18561	5438	4.35541	4290	30.10441	22450	34.45982	26740
2000	5.23999	4661	4.39831	4122	30.32891	21559	34.72722	25681
2100	5.28660	3914	4.43953	3942	30.54450	20746	34.98403	24688
2200	5.32574	3214	4.47895	3754	30.75196	19992	35.23091	23746
2300	5.35788	2574	4.51649	3562	30.95188	19299	35.46837	22861
2400	5.38362	1996	4.55211	3367	31.14487	18651	35.69698	22018
2500	5.40358	1483	4.58578	3176	31.33138	18048	35.91716	21224
2600	5.41841	1033	4.61754	2987	31.51186	17484	36.12940	20471
2700	5.42874	644	4.64741	2803	31.68670	16952	36.33411	19755
2800	5.43518	313	4.67544	2625	31.85622	16453	36.53166	19078
2900	5.43831	34	4.70169	2457	32.02075	15981	36.72244	18438
3000	5.43865	- 588	4.72626	4438	32.18056	30648	36.90682	35086
3200	5.43277	- 1206	4.77064	3862	32.48704	29040	37.25768	32902
3400	5.42071	- 1583	4.80926	3355	32.77744	27587	37.58670	30942
3600	5.40488	- 1784	4.84281	2911	33.05331	26263	37.89612	29174
3800	5.38704	- 1856	4.87192	2529	33.31594	25056	38.18786	27585
4000	5.36848	- 1840	4.89721	2201	33.56650	23948	38.46371	26149
4200	5.35008	- 1765	4.91922	1918	33.80598	22929	38.72520	24847
4400	5.33243	- 1653	4.93840	1676	34.03527	21991	38.97367	23667
4600	5.31590	- 1517	4.95516	1471	34.25518	21120	39.21034	22591
4800	5.30073	- 1370	4.96987	1296	34.46638	20315	39.43625	21611
5000	5.28703		4.98283		34.66953		39.65236	

Table 2. 093. BiT

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50107	19	3.48396	287	17.17420	63547	20.65816	63834
60	3.50126	19	3.48683	208	17.80967	53766	21.29650	53974
70	3.50145	21	3.48891	158	18.34733	46599	21.83624	46757
80	3.50166	23	3.49049	125	18.81332	41119	22.30381	41244
90	3.50189	34	3.49174	103	19.22451	36795	22.71625	36998
100	3.50223	55	3.49277	88	19.59246	33294	23.08523	33382
110	3.50278	95	3.49365	80	19.92540	30402	23.41905	30482
120	3.50373	158	3.49445	77	20.22942	27974	23.72387	28051
130	3.50531	247	3.49522	80	20.50916	25905	24.00438	25985
140	3.50778	359	3.49602	90	20.76821	24123	24.26423	24213
150	3.51137	492	3.49692	105	21.00944	22572	24.50636	22677
160	3.51629	641	3.49797	126	21.23516	21210	24.73313	21336
170	3.52270	800	3.49923	152	21.44726	20305	24.94649	20157
180	3.53070	960	3.50075	182	21.64731	18932	25.14806	19114
190	3.54030	1119	3.50257	216	21.83663	17972	25.33920	18188
200	3.55149	1271	3.50473	252	22.01635	17105	25.52108	17357
210	3.56420	1411	3.50725	291	22.18740	16323	25.69465	16614
220	3.57831	1538	3.51016	329	22.35063	15610	25.86079	15939
230	3.59369	1649	3.51345	368	22.50673	14961	26.02018	15329
240	3.61018	1745	3.51713	407	22.65634	14366	26.17347	14773
250	3.62763	1825	3.52120	444	22.80000	13818	26.32120	14262
260	3.64588	1889	3.52564	480	22.93818	13315	26.46382	13795
270	3.66477	1938	3.53044	515	23.07133	12849	26.60177	13364
280	3.68415	1974	3.53559	546	23.19982	12416	26.73541	12962
290	3.70389	1996	3.54105	576	23.32398	12015	26.86503	12591
300	3.72385	2008	3.54681	603	23.44413	11639	26.99094	12242
310	3.74393	2009	3.55284	629	23.56052	11290	27.11336	11919
320	3.76402	2002	3.55913	651	23.67342	10962	27.23255	11613
330	3.78404	1987	3.56564	672	23.78304	10654	27.34868	11326
340	3.80391	1966	3.57236	689	23.88958	10366	27.46194	11055
350	3.82357	1939	3.57925	706	23.99324	10093	27.57249	10799
360	3.84296	1908	3.58631	720	24.09417	9835	27.68048	10555
370	3.86204	1873	3.59351	731	24.19252	9593	27.78603	10324
380	3.88077	1835	3.60082	741	24.28845	9363	27.88927	10104
390	3.89912	1797	3.60823	750	24.38208	9145	27.99031	9895
400	3.91709	8335	3.61573	3822	24.47353	42807	28.08926	46629
450	4.00044	7254	3.65395	3836	24.90160	38697	28.55555	42533
500	4.07298	6270	3.69231	3753	25.28857	35369	28.98088	39122
550	4.13568	5443	3.72984	3614	25.64226	32609	29.37210	36223
600	4.19011	4794	3.76598	3450	25.96835	30282	29.73433	33732
650	4.23805	4316	3.80048	3283	26.27117	28286	30.07165	31569
700	4.28121	3988	3.83331	3120	26.55403	26554	30.38734	29674
750	4.32109	3792	3.86451	2972	26.81957	25037	30.68408	28009
800	4.35901	3702	3.89423	2844	27.06994	23694	30.96417	26538
850	4.39603	3691	3.92267	2731	27.30688	22499	31.22955	25230
900	4.43294	3736	3.94998	2641	27.53187	21429	31.48185	24070
950	4.47030	3817	3.97639	2564	27.74616	20461	31.72255	23025
1000	4.50847	3916	4.00203	2505	27.95077	19587	31.95280	22092
1050	4.54763	4018	4.02708	2457	28.14664	18790	32.17372	21247
1100	4.58781	4112	4.05165	2420	28.33454	18064	32.38619	20484
1150	4.62893	4191	4.07585	2392	28.51518	17397	32.59103	19789

Table 2. 093. BiT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.67084	8527	4.09977	4720	28.68915	33004	32.78892	37724
1300	4.75611	8539	4.14697	4656	29.01919	30903	33.16616	35559
1400	4.84150	8335	4.19353	4600	29.32822	29089	33.52175	33589
1500	4.92485	7936	4.23953	4534	29.61911	27507	33.85864	32041
1600	5.00421	7383	4.28487	4451	29.89418	26110	34.17905	30561
1700	5.07804	6720	4.32938	4350	30.15528	24870	34.48466	29220
1800	5.14524	5992	4.37288	4225	30.40398	23757	34.77686	27982
1900	5.20516	5237	4.41513	4084	30.64155	22751	35.05668	26835
2000	5.25753	4484	4.45597	3927	30.86906	21836	35.32503	25763
2100	5.30237	3758	4.49524	3757	31.08742	21000	35.58266	24757
2200	5.33995	3077	4.53281	3579	31.29742	20229	35.83023	23808
2300	5.37072	2451	4.56860	3395	31.49971	19516	36.06831	22911
2400	5.39523	1886	4.60255	3210	31.69487	18854	36.29742	22064
2500	5.41409	1384	4.63465	3026	31.88341	18237	36.51806	21263
2600	5.42793	943	4.66491	2845	32.06578	17660	36.73069	20505
2700	5.43736	563	4.69336	2668	32.24238	17117	36.93574	19785
2800	5.44299	239	4.72004	2498	32.41355	16607	37.13359	19105
2900	5.44538	- 34	4.74502	2335	32.57962	16126	37.32464	18461
3000	5.44504	- 707	4.76837	2211	32.74088	30912	37.50925	35123
3200	5.43797	- 1308	4.81048	3654	33.05000	29275	37.86048	32929
3400	5.42489	- 1670	4.84702	3166	33.34275	27798	38.18977	30964
3600	5.40819	- 1860	4.87868	2738	33.62073	26452	38.49941	29190
3800	5.38959	- 1924	4.90606	2370	33.88525	25227	38.79131	27597
4000	5.37035	- 1899	4.92976	2053	34.13752	24103	39.06728	26156
4200	5.35136	- 1819	4.95029	1781	34.37855	23071	39.32884	24852
4400	5.33317	- 1701	4.96810	1549	34.60926	22119	39.57736	23668
4600	5.31616	- 1560	4.98359	1353	34.83045	21239	39.81404	22592
4800	5.30056	- 1410	4.99712	1186	35.04284	20424	40.03996	21610
5000	5.28646		5.00898		35.24708		40.25606	

Table 2.094. OH

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50050	14503	2.87580	11717	12.59278	53492	15.46858	65209
60	3.64553	8692	2.99297	9999	13.12770	46910	16.12067	56909
70	3.73245	4717	3.09296	8323	13.59680	41863	16.68976	50186
80	3.77962	2085	3.17619	6839	14.01543	37818	17.19162	44657
90	3.80047	420	3.24458	5591	14.39361	34483	17.63819	40074
100	3.80467	- 588	3.30049	4562	14.73844	31679	18.03893	36241
110	3.79879	- 1166	3.34611	3727	15.05523	29280	18.40134	33007
120	3.78713	- 1464	3.38338	3051	15.34803	27207	18.73141	30258
130	3.77249	- 1589	3.41389	2504	15.62010	25394	19.03399	27898
140	3.75660	- 1609	3.43893	2065	15.87404	23798	19.31297	25863
150	3.74051	- 1567	3.45958	1706	16.11202	22384	19.57160	24090
160	3.72484	- 1491	3.47664	1416	16.33586	21120	19.81250	22536
170	3.70993	- 1398	3.49080	1178	16.54706	19988	20.03786	21166
180	3.69595	- 1300	3.50258	983	16.74694	18964	20.24952	19947
190	3.68295	- 1200	3.51241	822	16.93658	18039	20.44899	18861
200	3.67095	- 1102	3.52063	690	17.11697	17194	20.63760	17884
210	3.65993	- 1012	3.52753	578	17.28891	16424	20.81644	17002
220	3.64981	- 928	3.53331	486	17.45315	15718	20.98646	16204
230	3.64053	- 851	3.53817	409	17.61033	15065	21.14850	15474
240	3.63202	- 778	3.54226	342	17.76098	14469	21.30324	14811
250	3.62424	- 713	3.54568	289	17.90567	13912	21.45135	14201
260	3.61711	- 654	3.54857	242	18.04479	13396	21.59336	13638
270	3.61057	- 602	3.55099	201	18.17875	12919	21.72974	13120
280	3.60455	- 552	3.55300	168	18.30794	12471	21.86094	12639
290	3.59903	- 503	3.55468	140	18.43265	12053	21.98733	12193
300	3.59395	- 467	3.55608	115	18.55318	11661	22.10926	11776
310	3.58928	- 431	3.55723	92	18.66979	11297	22.22702	11389
320	3.58497	- 399	3.55815	76	18.78276	10950	22.34091	11026
330	3.58098	- 366	3.55891	60	18.89226	10625	22.45117	10685
340	3.57732	- 339	3.55951	46	18.99851	10319	22.55802	10365
350	3.57393	- 313	3.55997	33	19.10170	10029	22.66167	10062
360	3.57080	- 289	3.56030	24	19.20199	9756	22.76229	9780
370	3.56791	- 267	3.56054	17	19.29955	9495	22.86009	9512
380	3.56524	- 245	3.56071	8	19.39450	9250	22.95521	9258
390	3.56279	- 226	3.56079	2	19.48700	9014	23.04779	9016
400	3.56053	- 864	3.56081	- 54	19.57714	41939	23.13795	41885
450	3.55189	- 468	3.56027	- 111	19.99653	37505	23.55680	37394
500	3.54721	- 92	3.55916	- 116	20.37158	33917	23.93074	33801
550	3.54629	283	3.55800	- 88	20.71075	30954	24.26875	30866
600	3.54912	660	3.55712	- 39	21.02029	28471	24.57741	28432
650	3.55572	1030	3.55673	27	21.30500	26359	24.86173	26386
700	3.56602	1382	3.55700	105	21.56859	24544	25.12559	24649
750	3.57984	1699	3.55805	187	21.81403	22969	25.37208	23156
800	3.59683	1981	3.55992	275	22.04372	21589	25.60364	21864
850	3.61664	2216	3.56267	360	22.25961	20373	25.82228	20733
900	3.63880	2408	3.56627	445	22.46334	19294	26.02961	19739
950	3.66288	2556	3.57072	524	22.65628	18328	26.22700	18852
1000	3.68844	2665	3.57596	599	22.83956	17461	26.41552	18060
1050	3.71509	2736	3.58195	666	23.01417	16679	26.59612	17345
1100	3.74245	2776	3.58861	729	23.18096	15968	26.76957	16697
1150	3.77021	2790	3.59590	785	23.34064	15320	26.93654	16105

Table 2. 094. OH (Cont.)

$\%K$	$\frac{C_p^\circ}{R}$		$\frac{(H^\circ - E_0^\circ)}{RT}$		$\frac{-(F^\circ - E_0^\circ)}{RT}$		$\frac{S^\circ}{R}$	
1200	3.79811	5534	3.60375	1708	23.49384	28912	27.09759	30620
1300	3.85345	5366	3.62083	1855	23.78296	26901	27.40379	28756
1400	3.90711	5121	3.63938	1957	24.05197	25175	27.69135	27132
1500	3.95832	4828	3.65895	2023	24.30372	23678	27.96267	25701
1600	4.00660	4519	3.67918	2061	24.54050	22367	28.21968	24428
1700	4.05179	4207	3.69979	2073	24.76417	21206	28.46396	23279
1800	4.09386	3908	3.72052	2069	24.97623	20171	28.69675	22240
1900	4.13294	3622	3.74121	2051	25.17794	19243	28.91915	21294
2000	4.16916	3356	3.76172	2021	25.37037	18402	29.13209	20423
2100	4.20272	3110	3.78193	1984	25.55439	17640	29.33632	19624
2200	4.23382	2886	3.80177	1942	25.73079	16942	29.53256	18884
2300	4.26268	2681	3.82119	1896	25.90021	16303	29.72140	18199
2400	4.28949	2495	3.84015	1848	26.06324	15714	29.90339	17562
2500	4.31444	2325	3.85863	1798	26.22038	15169	30.07901	16967
2600	4.33769	2173	3.87661	1748	26.37207	14664	30.24868	16412
2700	4.35942	2032	3.89409	1699	26.51871	14192	30.41280	15891
2800	4.37974	1908	3.91108	1649	26.66063	13754	30.57171	15403
2900	4.39882	1792	3.92757	1602	26.79817	13342	30.72574	14944
3000	4.41674	3288	3.94359	3061	26.93159	25550	30.87518	28611
3200	4.44962	2943	3.97420	2885	27.18709	24181	31.16129	27066
3400	4.47905	2659	4.00305	2720	27.42890	22959	31.43195	25679
3600	4.50564	2421	4.03025	2567	27.65849	21859	31.68874	24426
3800	4.52985	2223	4.05592	2425	27.87708	20866	31.93300	23291
4000	4.55208	2054	4.08017	2297	28.08574	19964	32.16591	22261
4200	4.57262	1911	4.10314	2178	28.28538	19138	32.38852	21316
4400	4.59173	1789	4.12492	2069	28.47676	18382	32.60168	20451
4600	4.60962	1683	4.14561	1968	28.66058	17686	32.80619	19654
4800	4.62645	1593	4.16529	1877	28.83744	17042	33.00273	18919
5000	4.64238		4.18406		29.00786		33.19192	

Table 2.095. OD

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.68420	9943	3.13107	10108	12.94356	58008	16.07463	68116
60	3.78363	5877	3.23215	8343	13.52364	50472	16.75579	58815
70	3.84240	2740	3.31558	6782	14.02836	44733	17.34394	51515
80	3.86980	587	3.38340	5454	14.47569	40177	17.85909	45631
90	3.87567	-769	3.43794	4347	14.87746	36456	18.31540	40803
100	3.86798	-1554	3.48141	3448	15.24202	33351	18.72343	36799
110	3.85244	-1957	3.51589	2725	15.57553	30712	19.09142	33437
120	3.83287	-2116	3.54314	2148	15.88265	28448	19.42579	30596
130	3.81171	-2131	3.56462	1689	16.16713	26481	19.73175	28170
140	3.79040	-2062	3.58151	1323	16.43194	24757	20.01345	26080
150	3.76978	-1946	3.59474	1032	16.67951	23236	20.27425	24268
160	3.75032	-1811	3.60506	800	16.91187	21880	20.51693	22680
170	3.73221	-1668	3.61306	616	17.13067	20670	20.74373	21286
180	3.71553	-1529	3.61922	466	17.33737	19582	20.95659	20048
190	3.70024	-1393	3.62388	346	17.53319	18596	21.15707	18942
200	3.68631	-1271	3.62734	251	17.71915	17704	21.34649	17955
210	3.67360	-1156	3.62985	171	17.89619	16891	21.52604	17062
220	3.66204	-1051	3.63156	110	18.06510	16146	21.69666	16256
230	3.65153	-958	3.63266	58	18.22656	15462	21.85922	15520
240	3.64195	-870	3.63324	17	18.38118	14831	22.01442	14848
250	3.63325	-792	3.63341	-16	18.52949	14250	22.16290	14234
260	3.62533	-721	3.63325	-43	18.67139	13713	22.30524	13670
270	3.61812	-658	3.63282	-65	18.80912	13210	22.44194	13145
280	3.61154	-596	3.63217	-80	18.94122	12744	22.57339	12664
290	3.60558	-544	3.63137	-96	19.06866	12309	22.70003	12213
300	3.60014	-491	3.63041	-107	19.19175	11903	22.82216	11796
310	3.59523	-443	3.62934	-111	19.31078	11521	22.94012	11410
320	3.59080	-400	3.62823	-120	19.42599	11163	23.05422	11043
330	3.58680	-356	3.62703	-124	19.53762	10825	23.16465	10701
340	3.58324	-317	3.62579	-126	19.64587	10508	23.27166	10382
350	3.58007	-276	3.62453	-129	19.75095	10210	23.37548	10081
360	3.57731	-240	3.62324	-127	19.85305	9925	23.47629	9798
370	3.57491	-201	3.62197	-127	19.95230	9658	23.57427	9531
380	3.57290	-166	3.62070	-125	20.04888	9404	23.66958	9279
390	3.57124	-130	3.61945	-121	20.14292	9162	23.76237	9041
400	3.56994	-138	3.61824	-552	20.23454	42584	23.85278	42032
450	3.56856	680	3.61272	-414	20.66038	38041	24.27310	37627
500	3.57536	1424	3.60858	-243	21.04079	34380	24.64937	34137
550	3.58960	2076	3.60615	-55	21.38459	31373	24.99074	31318
600	3.61036	2608	3.60560	134	21.69832	28865	25.30392	28999
650	3.63644	3020	3.60694	317	21.98697	26741	25.59391	27058
700	3.66664	3316	3.61011	485	22.25438	24923	25.86449	25408
750	3.69980	3507	3.61496	639	22.50361	23350	26.11857	23989
800	3.73487	3608	3.62135	774	22.73711	21977	26.35846	22751
850	3.77095	3541	3.62909	889	22.95688	20768	26.58597	21657
900	3.80736	3615	3.63798	987	23.16456	19695	26.80254	20682
950	3.84351	3548	3.64785	1067	23.36151	18738	27.00936	19805
1000	3.87899	3453	3.65852	1133	23.54889	17878	27.20741	19011
1050	3.91352	3334	3.66985	1184	23.72767	17099	27.39752	18283
1100	3.94686	3204	3.68169	1223	23.89866	16392	27.58035	17615
1150	3.97890	3067	3.69392	1252	24.06258	15748	27.75650	17000

Table 2.095. OD (Cont.)

$^{\circ}K$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.00957	5706	3.70644	2555	24.22006	29768	27.92650	32323
1300	4.06663	5153	3.73199	2577	24.51774	27751	28.24973	30328
1400	4.11816	4635	3.75776	2560	24.79525	26014	28.55301	28574
1500	4.16451	4164	3.78336	2515	25.05539	24497	28.83875	27012
1600	4.20615	3745	3.80851	2451	25.30036	23163	29.10887	25614
1700	4.24360	3374	3.83302	2376	25.53199	21977	29.36501	24353
1800	4.27734	3050	3.85678	2295	25.75176	20914	29.60854	23209
1900	4.30784	2765	3.87973	2211	25.96090	19958	29.84063	22169
2000	4.33549	2517	3.90184	2126	26.16048	19089	30.06232	21215
2100	4.36066	2299	3.92310	2041	26.35137	18297	30.27447	20338
2200	4.38365	2110	3.94351	1961	26.53434	17573	30.47785	19534
2300	4.40475	1944	3.96312	1881	26.71007	16907	30.67319	18788
2400	4.42419	1796	3.98193	1806	26.87914	16292	30.86107	18098
2500	4.44215	1668	3.99999	1732	27.04206	15723	31.04205	17455
2600	4.45883	1556	4.01731	1665	27.19929	15193	31.21660	16858
2700	4.47439	1453	4.03396	1599	27.35122	14699	31.38518	16298
2800	4.48892	1364	4.04995	1538	27.49821	14239	31.54816	15777
2900	4.50256	1286	4.06533	1478	27.64060	13807	31.70593	15285
3000	4.51542	1265	4.08011	1426	27.77867	13403	31.85878	14819
3200	4.53907	2136	4.10807	2600	28.04290	24984	32.15097	27584
3400	4.56043	1951	4.13407	2423	28.29274	23698	32.42681	26121
3600	4.57994	1799	4.15830	2268	28.52972	22546	32.68802	24814
3800	4.59793	1673	4.18098	2127	28.75518	21499	32.93616	23626
4000	4.61466	1569	4.20225	2001	28.97017	20553	33.17242	22554
4200	4.63035	1481	4.22226	1889	29.17570	19684	33.39796	21573
4400	4.64516	1404	4.24115	1787	29.37254	18893	33.61369	20680
4600	4.65920	1341	4.25902	1695	29.56147	18163	33.82049	19858
4800	4.67261	1287	4.27597	1614	29.74310	17489	34.01907	19103
5000	4.68548		4.29211		29.91799		34.21010	

Table 2. 096. OT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.72686	9064	3.24159	8898	13.23305	59912	16.47464	68810
60	3.81750	5337	3.33057	7379	13.83217	51914	17.16274	59293
70	3.87087	2335	3.40436	6003	14.35131	45864	17.75567	51867
80	3.89422	250	3.46439	4805	14.80995	41094	18.27434	45899
90	3.89672	-1061	3.51244	3797	15.22089	37212	18.73333	41009
100	3.88611	-1802	3.55041	2974	15.59301	33985	19.14342	36959
110	3.86809	-2170	3.58015	2312	15.93286	31254	19.51301	33566
120	3.84639	-2299	3.60327	1781	16.24540	28915	19.84867	30696
130	3.82340	-2286	3.62108	1363	16.53455	26888	20.15563	28251
140	3.80054	-2193	3.63471	1032	16.80343	25113	20.43814	26145
150	3.77861	-2059	3.64503	770	17.05456	23551	20.69959	24321
160	3.75802	-1905	3.65273	562	17.29007	22163	20.94280	22725
170	3.73897	-1748	3.65835	399	17.51170	20923	21.17005	21322
180	3.72149	-1596	3.66234	269	17.72093	19809	21.38327	20078
190	3.70553	-1454	3.66503	165	17.91902	18803	21.58405	18968
200	3.69099	-1318	3.66668	85	18.10705	17892	21.77373	17977
210	3.67781	-1195	3.66753	18	18.28597	17063	21.95350	17081
220	3.66586	-1082	3.66771	- 32	18.45660	16303	22.12431	16271
230	3.65504	- 980	3.66739	- 72	18.61963	15607	22.28702	15535
240	3.64524	- 885	3.66667	- 103	18.77570	14965	22.44237	14862
250	3.63639	- 798	3.66564	- 129	18.92535	14375	22.59099	14246
260	3.62841	- 718	3.66435	- 146	19.06910	13826	22.73345	13680
270	3.62123	- 641	3.66289	- 162	19.20736	13319	22.87025	13157
280	3.61482	- 571	3.66127	- 168	19.34055	12844	23.00182	12676
290	3.60911	- 504	3.65959	- 178	19.46899	12404	23.12858	12226
300	3.60407	- 440	3.65781	- 181	19.59303	11991	23.25084	11810
310	3.59967	- 377	3.65600	- 182	19.71294	11606	23.36894	11424
320	3.59590	- 318	3.65418	- 181	19.82900	11240	23.48318	11059
330	3.59272	- 261	3.65237	- 179	19.94140	10900	23.59377	10721
340	3.59011	- 204	3.65058	- 176	20.05040	10581	23.70098	10405
350	3.58807	- 151	3.64882	- 172	20.15621	10277	23.80503	10105
360	3.58656	- 96	3.64710	- 164	20.25898	9991	23.90608	9827
370	3.58560	- 44	3.64546	- 158	20.35889	9718	24.00435	9560
380	3.58516	6	3.64388	- 151	20.45607	9464	24.09995	9313
390	3.58522	57	3.64237	- 142	20.55071	9219	24.19308	9077
400	3.58579	984	3.64095	- 569	20.64290	42850	24.28385	42281
450	3.59563	2016	3.63526	- 303	21.07140	38283	24.70666	37980
500	3.61579	2842	3.63223	- 26	21.45423	34615	25.08646	34589
550	3.64421	3448	3.63197	242	21.80038	31612	25.43235	31854
600	3.67869	3853	3.63439	488	22.11650	29107	25.75089	29595
650	3.71722	4086	3.63927	701	22.40757	26994	26.04684	27695
700	3.75808	4181	3.64628	885	22.67751	25186	26.32379	26071
750	3.79989	4173	3.65513	1036	22.92937	23623	26.58450	24659
800	3.84162	4091	3.66549	1156	23.16560	22256	26.83109	23412
850	3.88253	3956	3.67705	1252	23.38816	21053	27.06521	22305
900	3.92209	3789	3.68957	1324	23.59869	19983	27.28826	21307
950	3.95998	3603	3.70281	1377	23.79852	19028	27.50133	20405
1000	3.99601	3409	3.71658	1413	23.98880	18167	27.70538	19580
1050	4.03010	3214	3.73071	1435	24.17047	17388	27.90118	18823
1100	4.06224	3022	3.74506	1445	24.34435	16680	28.08941	18125
1150	4.09246	2836	3.75951	1447	24.51115	16031	28.27066	17478

Table 2.096. OT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.12082	5154	3.77398	2870	24.67146	30321	28.44544	33191
1300	4.17236	4531	3.80268	2806	24.97467	28285	28.77735	31091
1400	4.21767	3987	3.83074	2716	25.25752	26522	29.08826	29238
1500	4.25754	3523	3.85790	2609	25.52274	24982	29.38064	27591
1600	4.29277	3126	3.88399	2498	25.77256	23623	29.65655	26121
1700	4.32403	2788	3.90897	2386	26.00879	22410	29.91776	24796
1800	4.35191	2498	3.93283	2272	26.23289	21325	30.16572	23597
1900	4.37689	2253	3.95555	2164	26.44614	20346	30.40169	22510
2000	4.39942	2043	3.97719	2061	26.64960	19455	30.62679	21516
2100	4.41985	1861	3.99780	1960	26.84415	18644	30.84195	20604
2200	4.43846	1706	4.01740	1869	27.03059	17898	31.04799	19767
2300	4.45552	1569	4.03609	1780	27.20957	17216	31.24566	18996
2400	4.47121	1453	4.05389	1700	27.38173	16583	31.43562	18283
2500	4.48574	1351	4.07089	1620	27.54756	16000	31.61845	17620
2600	4.49925	1261	4.08709	1551	27.70756	15453	31.79465	17004
2700	4.51186	1183	4.10260	1482	27.86209	14948	31.96469	16430
2800	4.52369	1112	4.11742	1421	28.01157	14473	32.12899	15894
2900	4.53481	1052	4.13163	1362	28.15630	14030	32.28793	15392
3000	4.54533	1947	4.14525	2562	28.29660	26836	32.44185	29398
3200	4.56480	1773	4.17087	2370	28.56496	25358	32.73583	27728
3400	4.58253	1631	4.19457	2202	28.81854	24038	33.01311	26240
3600	4.59884	1519	4.21659	2051	29.05892	22854	33.27551	24905
3800	4.61403	1425	4.23710	1922	29.28746	21782	33.52456	23704
4000	4.62828	1346	4.25632	1803	29.50528	20812	33.76160	22615
4200	4.64174	1282	4.27435	1699	29.71340	19923	33.98775	21622
4400	4.65456	1225	4.29134	1606	29.91263	19111	34.20397	20717
4600	4.66681	1178	4.30740	1523	30.10374	18365	34.41114	19888
4800	4.67859	1137	4.32263	1446	30.28739	17676	34.61002	19122
5000	4.68996		4.33709		30.46415		34.80124	

Table 2.097. SH

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.42596	3607	3.07447	6176	13.84212	56625	16.91659	62801
60	3.46203	3022	3.13623	4872	14.40837	48724	17.54460	53596
70	3.49225	3362	3.18495	4044	14.89561	42800	18.08056	46844
80	3.52587	3881	3.22539	3551	15.32361	38199	18.54900	41750
90	3.56468	4303	3.26090	3248	15.70560	34529	18.96650	37777
100	3.60771	4496	3.29338	3064	16.05089	31532	19.34427	34596
110	3.65267	4460	3.32402	2925	16.36621	29049	19.69023	31974
120	3.69727	4228	3.35327	2810	16.65670	26950	20.00997	29760
130	3.73955	3859	3.38137	2698	16.92620	25162	20.30757	27860
140	3.77814	3402	3.40835	2582	17.17782	23603	20.58617	26185
150	3.81216	2906	3.43417	2456	17.41385	22243	20.84802	24699
160	3.84122	2402	3.45873	2324	17.63628	21039	21.09501	23363
170	3.86524	1919	3.48197	2185	17.84667	19964	21.32864	22149
180	3.88443	1472	3.50382	2043	18.04631	19000	21.55013	21043
190	3.89915	1062	3.52425	1902	18.23631	18126	21.76056	20028
200	3.90977	723	3.54327	1767	18.41757	17258	21.96084	19025
210	3.91700	434	3.56094	1630	18.59015	16544	22.15109	18174
220	3.92134	132	3.57724	1500	18.75559	15934	22.33283	17434
230	3.92266	- 100	3.59224	1376	18.91493	15318	22.50717	16694
240	3.92166	- 290	3.60600	1257	19.06811	14747	22.67411	16004
250	3.91876	- 441	3.61857	1147	19.21558	14215	22.83415	15362
260	3.91435	- 566	3.63004	1042	19.35773	13719	22.98777	14761
270	3.90869	- 660	3.64046	947	19.49492	13257	23.13538	14204
280	3.90209	- 737	3.64993	857	19.62749	12823	23.27742	13680
290	3.89472	- 787	3.65850	774	19.75572	12417	23.41422	13191
300	3.88685	- 823	3.66624	699	19.87989	12032	23.54613	12731
310	3.87862	- 848	3.67323	629	20.00021	11672	23.67344	12301
320	3.87014	- 855	3.67952	564	20.11693	11332	23.79645	11896
330	3.86159	- 856	3.68516	506	20.23025	11010	23.91541	11516
340	3.85303	- 846	3.69022	453	20.34035	10703	24.03057	11156
350	3.84457	- 828	3.69475	405	20.44738	10414	24.14213	10819
360	3.83629	- 804	3.69880	361	20.55152	10139	24.25032	10500
370	3.82825	- 776	3.70241	321	20.65291	9879	24.35532	10200
380	3.82049	- 743	3.70562	284	20.75170	9629	24.45732	9913
390	3.81306	- 707	3.70846	253	20.84799	9392	24.55645	9645
400	3.80599	-2909	3.71099	884	20.94191	43766	24.65290	44650
450	3.77690	-1779	3.71983	472	21.37957	39220	25.09940	39692
500	3.75911	- 672	3.72455	276	21.77177	35514	25.49632	35790
550	3.75239	312	3.72731	216	22.12691	32438	25.85422	32654
600	3.75551	1133	3.72947	238	22.45129	29862	26.18076	30100
650	3.76684	1781	3.73185	311	22.74991	27667	26.48176	27978
700	3.78465	2268	3.73496	404	23.02658	25782	26.76154	26186
750	3.80733	2613	3.73900	508	23.28440	24146	27.02340	24654
800	3.83346	2844	3.74408	608	23.52586	22716	27.26994	23324
850	3.86190	2978	3.75016	704	23.75302	21456	27.50318	22160
900	3.89168	3038	3.75720	787	23.96758	20334	27.72478	21121
950	3.92206	3044	3.76507	862	24.17092	19334	27.93599	20196
1000	3.95250	3007	3.77369	923	24.36426	18434	28.13795	19357
1050	3.98257	2941	3.78292	974	24.54860	17621	28.33152	18595
1100	4.01198	2854	3.79266	1016	24.72481	16881	28.51747	17897
1150	4.04052	2754	3.80282	1047	24.89362	16206	28.69644	17253

Table 2.097. SH (Cont.)

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.06806	5180	3.81329	2163	25.05568	30608	28.86897	32771
1300	4.11986	4728	3.83492	2207	25.36176	28501	29.19668	30708
1400	4.16714	4293	3.85699	2213	25.64677	26695	29.50376	28898
1500	4.21007	3886	3.87912	2192	25.91362	25106	29.79274	27298
1600	4.24893	3519	3.90104	2151	26.16468	23715	30.06572	25866
1700	4.28412	3191	3.92255	2099	26.40183	22480	30.32438	24579
1800	4.31603	2901	3.94354	2039	26.62663	21376	30.57017	23415
1900	4.34504	2647	3.96393	1972	26.84039	20384	30.80432	22356
2000	4.37151	2422	3.98365	1905	27.04423	19482	31.02788	21387
2100	4.39573	2225	4.00270	1839	27.23905	18663	31.24175	20502
2200	4.41798	2053	4.02109	1770	27.42568	17914	31.44677	19684
2300	4.43851	1900	4.03879	1706	27.60482	17225	31.64361	18931
2400	4.45751	1768	4.05585	1642	27.77707	16591	31.83292	18233
2500	4.47519	1647	4.07227	1582	27.94298	16003	32.01525	17585
2600	4.49166	1546	4.08809	1523	28.10301	15457	32.19110	16980
2700	4.50712	1451	4.10332	1468	28.25758	14950	32.36090	16418
2800	4.52163	1369	4.11800	1416	28.40708	14476	32.52508	15892
2900	4.53532	1296	4.13216	1366	28.55184	14032	32.68400	15398
3000	4.54828	2401	4.14582	2591	28.69216	26840	32.83798	29431
3200	4.57229	2189	4.17173	2422	28.96056	25364	33.13229	27786
3400	4.59418	2015	4.19595	2269	29.21420	24049	33.41015	26318
3600	4.61433	1873	4.21864	2132	29.45469	22867	33.67333	24999
3800	4.63306	1755	4.23996	2010	29.68336	21799	33.92332	23809
4000	4.65061	1655	4.26006	1899	29.90135	20832	34.16141	22731
4200	4.66716	1572	4.27905	1801	30.10967	19947	34.38872	21748
4400	4.68288	1501	4.29706	1710	30.30914	19140	34.60620	20850
4600	4.69789	1439	4.31416	1629	30.50054	18395	34.81470	20024
4800	4.71228	1385	4.33045	1556	30.68449	17710	35.01494	19266
5000	4.72613		4.34601		30.86159		35.20760	

Table 2.098. SD

$^{\circ}K$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.48664	1246	3.26071	3865	14.32377	59809	17.58448	63674
60	3.49910	1861	3.29936	2977	14.92186	51092	18.22122	54069
70	3.51771	2716	3.32913	2517	15.43278	44623	18.76191	47140
80	3.54487	3522	3.35430	2306	15.87901	39642	19.23331	41948
90	3.58009	4092	3.37736	2229	16.27543	35700	19.65279	37929
100	3.62101	4385	3.39965	2211	16.63243	32506	20.03208	34717
110	3.66486	4405	3.42176	2209	16.95749	29867	20.37925	32076
120	3.70891	4206	3.44385	2203	17.25616	27650	20.70001	29853
130	3.75097	3855	3.46588	2177	17.53266	25768	20.99854	27945
140	3.78952	3408	3.48765	2129	17.79034	24135	21.27799	26264
150	3.82360	2910	3.50894	2060	18.03169	22713	21.54063	24773
160	3.85270	2409	3.52954	1974	18.25882	21457	21.78836	23431
170	3.87679	1922	3.54928	1875	18.47339	20340	22.02267	22215
180	3.89601	1472	3.56803	1765	18.67679	19340	22.24482	21105
190	3.91073	1058	3.58568	1655	18.87019	18434	22.45587	20089
200	3.92131	713	3.60223	1565	19.05453	17602	22.65676	19167
210	3.92844	407	3.61788	1460	19.23055	16854	22.84843	18314
220	3.93251	126	3.63248	1318	19.39909	16174	23.03157	17492
230	3.93377	- 86	3.64566	1190	19.56083	15542	23.20649	16732
240	3.93291	- 257	3.65756	1097	19.71625	14953	23.37381	16050
250	3.93034	- 390	3.66853	1000	19.86578	14408	23.53431	15408
260	3.92644	- 490	3.67853	910	20.00986	13900	23.68839	14810
270	3.92154	- 557	3.68763	826	20.14886	13426	23.83649	14252
280	3.91597	- 605	3.69589	748	20.28312	12983	23.97901	13731
290	3.90992	- 626	3.70337	678	20.41295	12566	24.11632	13244
300	3.90366	- 629	3.71015	614	20.53861	12176	24.24876	12790
310	3.89737	- 620	3.71629	556	20.66037	11807	24.37666	12363
320	3.89117	- 595	3.72185	504	20.77844	11461	24.50029	11965
330	3.88522	- 560	3.72689	457	20.89305	11133	24.61994	11590
340	3.87962	- 516	3.73146	416	21.00438	10824	24.73584	11240
350	3.87446	- 470	3.73562	380	21.11262	10528	24.84824	10908
360	3.86976	- 414	3.73942	345	21.21790	10250	24.95732	10595
370	3.86562	- 359	3.74287	319	21.32040	9986	25.06327	10305
380	3.86203	- 300	3.74606	293	21.42026	9735	25.16632	10028
390	3.85903	- 238	3.74899	273	21.51761	9496	25.26660	9769
400	3.85665	- 306	3.75172	1135	21.61257	4257	25.36429	45392
450	3.85359	1025	3.76307	946	22.05514	39697	25.81821	40643
500	3.86384	2049	3.77253	917	22.45211	35999	26.22464	36916
550	3.88433	2752	3.78170	966	22.81210	32946	26.59380	33912
600	3.91185	3182	3.79136	1046	23.14156	30389	26.93292	31435
650	3.94367	3403	3.80182	1135	23.44545	28214	27.24727	29349
700	3.97770	3474	3.81317	1213	23.72759	26350	27.54076	27563
750	4.01244	3438	3.82530	1278	23.99109	24728	27.81639	26006
800	4.04682	3337	3.83808	1325	24.23837	23308	28.07645	24633
850	4.08019	3194	3.85133	1362	24.47145	22052	28.32278	23414
900	4.11213	3031	3.86495	1381	24.69197	20934	28.55692	22315
950	4.14244	2855	3.87876	1391	24.90131	19930	28.78007	21321
1000	4.17099	2680	3.89267	1390	25.10061	19025	28.99328	20415
1050	4.19779	2510	3.90657	1381	25.29086	18207	29.19743	19588
1100	4.22289	2344	3.92038	1367	25.47293	17456	29.39331	18823
1150	4.24633	2191	3.93405	1347	25.64749	16772	29.58154	18119

Table 2.098. SD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.26824	3958	3.94752	2622	25.81521	31702	29.76273	34324
1300	4.30782	3464	3.97374	2514	26.13223	29541	30.10597	32055
1400	4.34246	3045	3.99888	2394	26.42764	27673	30.42652	30067
1500	4.37291	2694	4.02282	2274	26.70437	26034	30.72719	28308
1600	4.39985	2398	4.04556	2155	26.96471	24593	31.01027	26748
1700	4.42383	2151	4.06711	2043	27.21064	23304	31.27775	25347
1800	4.44534	1943	4.08754	1935	27.44368	22152	31.53122	24087
1900	4.46477	1765	4.10689	1835	27.66520	21114	31.77209	22949
2000	4.48242	1618	4.12524	1739	27.87634	20171	32.00158	21910
2100	4.49860	1488	4.14263	1652	28.07805	19308	32.22068	20960
2200	4.51348	1379	4.15915	1571	28.27113	18524	32.43028	20095
2300	4.52727	1285	4.17486	1496	28.45637	17800	32.63123	19296
2400	4.54012	1203	4.18982	1426	28.63437	17133	32.82419	18559
2500	4.55215	1132	4.20408	1361	28.80570	16512	33.00978	17873
2600	4.56347	1071	4.21769	1300	28.97082	15945	33.18851	17245
2700	4.57418	1015	4.23069	1244	29.13027	15408	33.36096	16652
2800	4.58433	970	4.24313	1194	29.28435	14911	33.52748	16105
2900	4.59403	925	4.25507	1146	29.43346	14445	33.68853	15591
3000	4.60328	1744	4.26653	2159	29.57791	27607	33.84444	29766
3200	4.62072	1625	4.28812	2006	29.85398	26056	34.14210	28062
3400	4.63697	1528	4.30818	1870	30.11454	24678	34.42272	26548
3600	4.65225	1449	4.32688	1750	30.36132	23443	34.68820	25193
3800	4.66674	1382	4.34438	1646	30.59575	22326	34.94013	23972
4000	4.68056	1330	4.36084	1555	30.81901	21314	35.17985	22869
4200	4.69386	1281	4.37639	1472	31.03215	20394	35.40854	21866
4400	4.70667	1242	4.39111	1399	31.23609	19549	35.62720	20948
4600	4.71909	1208	4.40510	1333	31.43158	18777	35.83668	20110
4800	4.73117	1177	4.41843	1276	31.61935	18062	36.03778	19338
5000	4.74294		4.43119		31.79997		36.23116	

Table 2.099 ST

$^{\circ}\text{K}$	$\frac{\text{C}_p^{\circ}}{\text{R}}$		$\frac{(\text{H}^{\circ} - \text{E}_0^{\circ})}{\text{RT}}$		$\frac{-(\text{F}^{\circ} - \text{E}_0^{\circ})}{\text{RT}}$		$\frac{\text{S}^{\circ}}{\text{R}}$	
50	3.49544	962	3.32989	2832	14.65352	60975	17.98341	63807
60	3.50506	1718	3.35821	2210	15.26327	51938	18.62148	54148
70	3.52224	2646	3.38031	1929	15.78265	45267	19.16296	47196
80	3.54870	3489	3.39960	1844	16.23532	40149	19.63492	41993
90	3.58359	4091	3.41804	1856	16.63681	36110	20.05485	37966
100	3.62450	4390	3.43660	1907	16.99791	32846	20.43451	34753
110	3.66840	4417	3.45567	1957	17.32637	30155	20.78204	32112
120	3.71257	4216	3.47524	1988	17.62792	27899	21.10316	29887
130	3.75473	3865	3.49512	1996	17.90691	25980	21.40203	27976
140	3.79338	3414	3.51508	1970	18.16671	24323	21.68179	26293
150	3.82752	2918	3.53478	1922	18.40994	22882	21.94472	24804
160	3.85670	2416	3.55400	1854	18.63876	21607	22.19276	23461
170	3.88086	1933	3.57254	1768	18.85483	20478	22.42737	22246
180	3.90019	1494	3.59022	1670	19.05961	19465	22.64983	21135
190	3.91513	1099	3.60692	1569	19.25426	18548	22.86118	20117
200	3.92612	776	3.62261	1482	19.43974	17655	23.06235	19137
210	3.93388	483	3.63743	1379	19.61629	16871	23.25372	18250
220	3.93871	244	3.65122	1255	19.78500	16242	23.43622	17497
230	3.94115	61	3.66377	1158	19.94742	15657	23.61119	16815
240	3.94176	- 82	3.67535	1064	20.10399	15045	23.77934	16109
250	3.94094	- 186	3.68599	978	20.25444	14456	23.94043	15434
260	3.93908	- 253	3.69577	895	20.39900	13966	24.09477	14861
270	3.93655	- 293	3.70472	825	20.53866	13488	24.24338	14313
280	3.93362	- 311	3.71297	755	20.67354	13043	24.38651	13798
290	3.93051	- 306	3.72052	695	20.80397	12624	24.52449	13319
300	3.92745	- 286	3.72747	640	20.93021	12233	24.65768	12873
310	3.92459	- 255	3.73387	592	21.05254	11860	24.78641	12452
320	3.92204	- 213	3.73979	548	21.17114	11521	24.91093	12069
330	3.91991	- 163	3.74527	513	21.28635	11188	25.03162	11701
340	3.91828	- 110	3.75040	477	21.39823	10879	25.14863	11356
350	3.91718	- 53	3.75517	449	21.50702	10585	25.26219	11034
360	3.91665	6	3.75966	425	21.61287	10307	25.37253	10732
370	3.91671	64	3.76391	402	21.71594	10043	25.47985	10445
380	3.91735	122	3.76793	385	21.81637	9792	25.58430	10177
390	3.91857	178	3.77178	369	21.91429	9554	25.68607	9923
400	3.92035	1657	3.77547	1691	22.00983	44568	25.78530	46259
450	3.93692	2648	3.79238	1571	22.45551	40039	26.24789	41610
500	3.96340	3259	3.80809	1556	22.85590	36368	26.66399	37924
550	3.99599	3562	3.82365	1584	23.21958	33338	27.04323	34922
600	4.03161	3643	3.83949	1619	23.55296	30795	27.39245	32414
650	4.06804	3583	3.85568	1645	23.86091	28636	27.71659	30281
700	4.10387	3436	3.87213	1660	24.14727	26770	28.01940	28430
750	4.13823	3244	3.88873	1662	24.41497	25150	28.30370	26812
800	4.17067	3031	3.90535	1650	24.66647	23726	28.57182	25376
850	4.20098	2814	3.92185	1631	24.90373	22463	28.82558	24094
900	4.22912	2602	3.93816	1601	25.12836	21335	29.06652	22936
950	4.25514	2402	3.95417	1565	25.34171	20323	29.29588	21888
1000	4.27916	2217	3.96982	1527	25.54494	19405	29.51476	20932
1050	4.30133	2046	3.98509	1485	25.73899	18573	29.72408	20058
1100	4.32179	1889	3.99994	1440	25.92472	17813	29.92466	19253
1150	4.34068	1748	4.01434	1397	26.10285	17114	30.11719	18511

Table 2.099. ST (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.35816	3127	4.02831	2661	26.27399	32351	30.30230	35012
1300	4.38943	2707	4.05492	2488	26.59750	30143	30.65242	32631
1400	4.41650	2370	4.07980	2325	26.89893	28228	30.97873	30553
1500	4.44020	2092	4.10305	2174	27.18121	26550	31.28426	28724
1600	4.46112	1865	4.12479	2034	27.44671	25067	31.57150	27101
1700	4.47977	1679	4.14513	1906	27.69738	23749	31.84251	25655
1800	4.49656	1523	4.16419	1791	27.93487	22563	32.09906	24354
1900	4.51179	1393	4.18210	1683	28.16050	21495	32.34260	23178
2000	4.52572	1285	4.19893	1587	28.37545	20525	32.57438	22112
2100	4.53857	1193	4.21480	1500	28.58070	19642	32.79550	21142
2200	4.55050	1115	4.22980	1418	28.77712	18834	33.00692	20252
2300	4.56165	1048	4.24398	1346	28.96546	18090	33.20944	19436
2400	4.57213	991	4.25744	1279	29.14636	17407	33.40380	18686
2500	4.58204	940	4.27023	1217	29.32043	16772	33.59066	17989
2600	4.59144	897	4.28240	1161	29.48815	16184	33.77055	17345
2700	4.60041	859	4.29401	1110	29.64999	15636	33.94400	16746
2800	4.60900	826	4.30511	1063	29.80635	15126	34.11146	16189
2900	4.61726	798	4.31574	1018	29.95761	14649	34.27335	15667
3000	4.62524	1518	4.32592	1918	30.10410	27981	34.43002	29899
3200	4.64042	1435	4.34510	1780	30.38391	26397	34.72901	28177
3400	4.65477	1368	4.36290	1660	30.64788	24984	35.01078	26644
3600	4.66845	1312	4.37950	1555	30.89772	23721	35.27722	25276
3800	4.68157	1267	4.39505	1463	31.13493	22582	35.52998	24045
4000	4.69424	1229	4.40968	1387	31.36075	21548	35.77043	22935
4200	4.70653	1194	4.42355	1313	31.57623	20609	35.99978	21922
4400	4.71847	1167	4.43668	1250	31.78232	19750	36.21900	21000
4600	4.73014	1142	4.44918	1194	31.97982	18961	36.42900	20155
4800	4.74156	1119	4.46112	1145	32.16943	18233	36.63055	19378
5000	4.75275		4.47257		32.35176		36.82433	

Table 2.100. HF

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50941	-240	3.29454	3559	11.33668	60401	14.63122	63961
60	3.50701	-146	3.33013	2516	11.94069	51534	15.27083	54049
70	3.50555	-92	3.35529	1872	12.45603	44932	15.81132	46804
80	3.50463	-59	3.37401	1448	12.90535	39827	16.27936	41275
90	3.50404	-38	3.38849	1153	13.30362	35763	16.69211	36917
100	3.50366	-25	3.40002	941	13.66125	32451	17.06128	33392
110	3.50341	-15	3.40943	783	13.98576	29701	17.39520	30483
120	3.50326	-8	3.41726	661	14.28277	27379	17.70003	28040
130	3.50318	-4	3.42387	566	14.55656	25395	17.98043	25962
140	3.50314		3.42953	491	14.81051	23679	18.24005	24169
150	3.50314	3	3.43444	429	15.04730	22179	18.48174	22609
160	3.50317	4	3.43873	379	15.26909	20859	18.70783	21238
170	3.50321	7	3.44252	338	15.47768	19686	18.92021	20024
180	3.50328	7	3.44590	302	15.67454	18640	19.12045	18941
190	3.50335	9	3.44892	272	15.86094	17697	19.30986	17970
200	3.50344	9	3.45164	247	16.03791	16847	19.48956	17094
210	3.50353	10	3.45411	225	16.20638	16074	19.66050	16299
220	3.50363	11	3.45636	206	16.36712	15369	19.82349	15574
230	3.50374	11	3.45842	189	16.52081	14723	19.97923	14912
240	3.50385	12	3.46031	174	16.66804	14129	20.12835	14304
250	3.50397	12	3.46205	162	16.80933	13582	20.27139	13743
260	3.50409	12	3.46367	150	16.94515	13074	20.40882	13225
270	3.50421	13	3.46517	139	17.07589	12605	20.54107	12744
280	3.50434	12	3.46656	131	17.20194	12167	20.66851	12297
290	3.50446	13	3.46787	122	17.32361	11759	20.79148	11881
300	3.50459	13	3.46909	115	17.44120	11377	20.91029	11492
310	3.50472	14	3.47024	108	17.55497	11019	21.02521	11127
320	3.50486	13	3.47132	102	17.66516	10683	21.13648	10785
330	3.50499	14	3.47234	96	17.77199	10368	21.24433	10464
340	3.50513	15	3.47330	91	17.87567	10069	21.34897	10161
350	3.50528	14	3.47421	87	17.97636	9789	21.45058	9875
360	3.50542	16	3.47508	82	18.07425	9522	21.54933	9604
370	3.50558	15	3.47590	78	18.16947	9271	21.64537	9349
380	3.50573	17	3.47668	75	18.26218	9032	21.73886	9107
390	3.50590	17	3.47743	71	18.35250	8805	21.82993	8876
400	3.50607	109	3.47814	316	18.44055	40985	21.91869	41302
450	3.50716	169	3.48130	266	18.85040	36694	22.33171	36960
500	3.50885	271	3.48396	238	19.21734	33217	22.70131	33454
550	3.51156	421	3.48634	227	19.54951	30345	23.03585	30572
600	3.51577	612	3.48861	231	19.85296	27932	23.34157	28164
650	3.52189	833	3.49092	249	20.13228	25880	23.62321	26129
700	3.53022	1074	3.49341	280	20.39108	24111	23.88450	24391
750	3.54096	1317	3.49621	320	20.63219	22574	24.12841	22894
800	3.55413	1553	3.49941	366	20.85793	21226	24.35735	21592
850	3.56966	1772	3.50307	418	21.07019	20035	24.57327	20453
900	3.58738	1966	3.50725	473	21.27054	18975	24.77780	19448
950	3.60704	2134	3.51198	528	21.46029	18027	24.97228	18555
1000	3.62838	2271	3.51726	583	21.64056	17175	25.15783	17757
1050	3.65109	2380	3.52309	635	21.81231	16404	25.33540	17040
1100	3.67489	2462	3.52944	686	21.97635	15704	25.50580	16389
1150	3.69951	2517	3.53630	732	22.13339	15066	25.66969	15798

Table 2.100. HF (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.72468	5114	3.54362	1589	22.28405	28425	25.82767	30015
1300	3.77582	5102	3.55951	1728	22.56830	26442	26.12782	28169
1400	3.82684	4983	3.57679	1834	22.83272	24739	26.40951	26574
1500	3.87667	4794	3.59513	1911	23.08011	23263	26.67525	25173
1600	3.92461	4564	3.61424	1961	23.31274	21970	26.92698	23931
1700	3.97025	4310	3.63385	1990	23.53244	20827	27.16629	22817
1800	4.01335	4051	3.65375	2000	23.74071	19808	27.39446	21809
1900	4.05386	3793	3.67375	1997	23.93879	18895	27.61255	20891
2000	4.09179	3544	3.69372	1980	24.12774	18070	27.82146	20051
2100	4.12723	3307	3.71352	1957	24.30844	17320	28.02197	19277
2200	4.16030	3086	3.73309	1925	24.48164	16637	28.21474	18562
2300	4.19116	2880	3.75234	1889	24.64801	16010	28.40036	17899
2400	4.21996	2688	3.77123	1850	24.80811	15433	28.57935	17282
2500	4.24684	2513	3.78973	1807	24.96244	14899	28.75217	16706
2600	4.27197	2352	3.80780	1763	25.11143	14404	28.91923	16167
2700	4.29549	2204	3.82543	1718	25.25547	13943	29.08090	15662
2800	4.31753	2068	3.84261	1674	25.39490	13514	29.23752	15187
2900	4.33821	1945	3.85935	1629	25.53004	13111	29.38939	14740
3000	4.35766	3561	3.87564	3126	25.66115	25113	29.53679	28240
3200	4.39327	3181	3.90690	2956	25.91228	23776	29.81919	26731
3400	4.42508	2863	3.93646	2796	26.15004	22580	30.08650	25376
3600	4.45371	2596	3.96442	2644	26.37584	21506	30.34026	24151
3800	4.47967	2369	3.99086	2504	26.59090	20534	30.58177	23038
4000	4.50336	2176	4.01590	2374	26.79624	19652	30.81215	22026
4200	4.52512	2012	4.03964	2253	26.99276	18845	31.03241	21098
4400	4.54524	1872	4.06217	2142	27.18121	18105	31.24339	20246
4600	4.56396	1750	4.08359	2038	27.36226	17423	31.44585	19461
4800	4.58146	1644	4.10397	1943	27.53649	16793	31.64046	18736
5000	4.59790		4.12340		27.70442		31.82782	

Table 2.101. DF

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50319	- 62	3.39388	1816	11.95202	62049	15.34590	63865
60	3.50257	- 32	3.41204	1290	12.57251	52699	15.98455	53990
70	3.50225	- 15	3.42494	966	13.09950	45800	16.52445	46765
80	3.50210	- 6	3.43460	747	13.55750	40498	16.99210	41248
90	3.50204	1	3.44209	600	13.96248	36299	17.40458	36998
100	3.50205	4	3.44809	491	14.32547	32887	17.77356	33378
110	3.50209	6	3.45300	409	14.65434	30063	18.10734	30473
120	3.50215	9	3.45709	347	14.95497	27686	18.41207	28032
130	3.50224	9	3.46056	298	15.23183	25657	18.69239	25955
140	3.50233	11	3.46354	259	15.48840	23905	18.95194	24164
150	3.50244	11	3.46613	227	15.72745	22377	19.19358	22604
160	3.50255	12	3.46840	201	15.95122	21033	19.41962	21235
170	3.50267	12	3.47041	180	16.16155	19842	19.63197	20021
180	3.50279	13	3.47221	161	16.35997	18777	19.83218	18939
190	3.50292	13	3.47382	146	16.54774	17823	20.02157	17968
200	3.50305	13	3.47528	133	16.72597	16959	20.20125	17092
210	3.50318	14	3.47661	121	16.89556	16176	20.37217	16297
220	3.50332	14	3.47782	111	17.05732	15462	20.53514	15573
230	3.50346	14	3.47893	102	17.21194	14808	20.69087	14911
240	3.50360	14	3.47995	95	17.36002	14208	20.83998	14303
250	3.50374	15	3.48090	88	17.50210	13654	20.98301	13742
260	3.50389	16	3.48178	83	17.63864	13142	21.12043	13224
270	3.50405	17	3.48261	76	17.77006	12667	21.25267	12744
280	3.50422	18	3.48337	73	17.89673	12225	21.38011	12297
290	3.50440	20	3.48410	68	18.01898	11813	21.50308	11881
300	3.50460	22	3.48478	64	18.13711	11427	21.62189	11492
310	3.50482	26	3.48542	61	18.25138	11067	21.73681	11127
320	3.50508	28	3.48603	58	18.36205	10728	21.84808	10787
330	3.50536	34	3.48661	56	18.46933	10409	21.95595	10465
340	3.50570	38	3.48717	53	18.57342	10110	22.06060	10162
350	3.50608	44	3.48770	52	18.67452	9825	22.16222	9878
360	3.50652	52	3.48822	50	18.77277	9559	22.26100	9608
370	3.50704	59	3.48872	49	18.86836	9304	22.35708	9353
380	3.50763	67	3.48921	48	18.96140	9064	22.45061	9113
390	3.50830	78	3.48969	47	19.05204	8836	22.54174	8883
400	3.50908	565	3.49016	239	19.14040	41122	22.63057	41360
450	3.51473	931	3.49255	265	19.55162	36811	23.04417	37076
500	3.52404	1361	3.49520	321	19.91973	33327	23.41493	33648
550	3.53765	1807	3.49841	399	20.25300	30457	23.75141	30856
600	3.55572	2229	3.50240	493	20.55757	28053	24.05997	28547
650	3.57801	2599	3.50733	596	20.83810	26013	24.34544	26509
700	3.60400	2899	3.51329	700	21.09823	24263	24.61153	24962
750	3.63299	3127	3.52029	801	21.34086	22744	24.86115	23546
800	3.66426	3284	3.52830	896	21.56830	21417	25.09661	22312
850	3.69710	3376	3.53726	981	21.78247	20246	25.31973	21227
900	3.73086	3415	3.54707	1057	21.98493	19206	25.53200	20263
950	3.76501	3408	3.55764	1122	22.17699	18276	25.73463	19399
1000	3.79909	3365	3.56886	1177	22.35975	17441	25.92862	18618
1050	3.83274	3295	3.58063	1221	22.53416	16685	26.11480	17906
1100	3.86569	3205	3.59284	1257	22.70101	15999	26.29386	17255
1150	3.89774	3101	3.60541	1283	22.86100	15371	26.46641	16654

Table 2.101. DF (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.92875	5855	3.61824	2616	23.01471	29065	26.63295	31682
1300	3.98730	5371	3.64440	2644	23.30536	27104	26.94977	29748
1400	4.04101	4892	3.67084	2634	23.57640	25416	27.24725	28050
1500	4.08993	4439	3.69718	2595	23.83056	23945	27.52775	26540
1600	4.13432	4022	3.72313	2539	24.07001	22648	27.79315	25187
1700	4.17454	3644	3.74852	2470	24.29649	21496	28.04502	23965
1800	4.21098	3306	3.77322	2392	24.51145	20465	28.28467	22858
1900	4.24404	3006	3.79714	2311	24.71610	19536	28.51325	21847
2000	4.27410	2739	3.82025	2228	24.91146	18693	28.73172	20921
2100	4.30149	2504	3.84253	2144	25.09839	17926	28.94093	20069
2200	4.32653	2295	3.86397	2061	25.27765	17221	29.14162	19283
2300	4.34948	2111	3.88458	1982	25.44986	16575	29.33445	18557
2400	4.37059	1948	3.90440	1904	25.61561	15978	29.52002	17881
2500	4.39007	1804	3.92344	1830	25.77539	15424	29.69883	17254
2600	4.40811	1676	3.94174	1759	25.92963	14909	29.87137	16668
2700	4.42487	1561	3.95933	1691	26.07872	14430	30.03805	16121
2800	4.44048	1459	3.97624	1626	26.22302	13982	30.19926	15608
2900	4.45507	1369	3.99250	1565	26.36284	13561	30.35534	15127
3000	4.46876	2502	4.00815	2958	26.49845	25964	30.50661	28922
3200	4.49378	2238	4.03773	2750	26.75809	24562	30.79583	27312
3400	4.51616	2024	4.06523	2562	27.00371	23310	31.06895	25872
3600	4.53640	1847	4.09085	2395	27.23681	22183	31.32767	24577
3800	4.55487	1701	4.11480	2243	27.45864	21164	31.57344	23407
4000	4.57188	1579	4.13723	2108	27.67028	20237	31.80751	22345
4200	4.58767	1476	4.15831	1985	27.87265	19391	32.03096	21376
4400	4.60243	1389	4.17816	1876	28.06656	18614	32.24472	20490
4600	4.61632	1315	4.19692	1775	28.25270	17900	32.44962	19675
4800	4.62947	1251	4.21467	1684	28.43170	17239	32.64637	18924
5000	4.64198		4.23151		28.60409		32.83561	

Table 2.102. TF

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50191	- 22	3.42622	1260	12.34640	62586	15.77263	63845
60	3.50169	- 8	3.43882	897	12.97226	53080	16.41108	53978
70	3.50161		3.44779	673	13.50306	46085	16.95086	46757
80	3.50161	5	3.45452	523	13.96391	40720	17.41843	41244
90	3.50166	8	3.45975	420	14.37111	36475	17.83087	36894
100	3.50174	9	3.46395	344	14.73586	33031	18.19981	33375
110	3.50183	11	3.46739	287	15.06617	30183	18.53356	30471
120	3.50194	12	3.47026	244	15.36800	27787	18.83827	28031
130	3.50206	12	3.47270	210	15.64587	25743	19.11858	25953
140	3.50218	13	3.47480	183	15.90330	23980	19.37811	24163
150	3.50231	13	3.47663	161	16.14310	22443	19.61974	22604
160	3.50244	13	3.47824	143	16.36753	21092	19.84578	21234
170	3.50257	13	3.47967	128	16.57845	19892	20.05812	20021
180	3.50270	14	3.48095	114	16.77737	18824	20.25833	18938
190	3.50284	15	3.48209	105	16.96561	17864	20.44771	17968
200	3.50299	14	3.48314	94	17.14425	16996	20.62739	17091
210	3.50313	16	3.48408	87	17.31421	16210	20.79830	16297
220	3.50329	16	3.48495	80	17.47631	15493	20.96127	15573
230	3.50345	18	3.48575	75	17.63124	14837	21.11700	14911
240	3.50363	21	3.48650	68	17.77961	14234	21.26611	14303
250	3.50384	23	3.48718	65	17.92195	13678	21.40914	13743
260	3.50407	28	3.48783	61	18.05873	13165	21.54657	13225
270	3.50435	32	3.48844	57	18.19038	12688	21.67882	12745
280	3.50467	39	3.48901	55	18.31726	12244	21.80627	12299
290	3.50506	47	3.48956	52	18.43970	11831	21.92926	11884
300	3.50553	56	3.49008	51	18.55801	11445	22.04810	11495
310	3.50609	67	3.49059	49	18.67246	11083	22.16305	11132
320	3.50676	80	3.49108	49	18.78329	10743	22.27437	10793
330	3.50756	93	3.49157	48	18.89072	10424	22.38230	10472
340	3.50849	109	3.49205	49	18.99496	10123	22.48702	10172
350	3.50958	127	3.49254	49	19.09619	9840	22.58874	9888
360	3.51085	145	3.49303	50	19.19459	9571	22.68762	9622
370	3.51230	164	3.49353	52	19.29030	9318	22.78384	9369
380	3.51394	186	3.49405	53	19.38348	9076	22.87753	9130
390	3.51580	207	3.49458	56	19.47424	8848	22.96883	8903
400	3.51787	1396	3.49514	324	19.56272	41185	23.05786	41510
450	3.53183	2023	3.49838	430	19.97457	36880	23.47296	37310
500	3.55206	2621	3.50268	564	20.34337	33410	23.84606	33974
550	3.57827	3133	3.50832	711	20.67747	30556	24.18580	31266
600	3.60960	3528	3.51543	857	20.98303	28171	24.49846	29029
650	3.64488	3799	3.52400	998	21.26474	26152	24.78875	27149
700	3.68287	3960	3.53398	1124	21.52626	24419	25.06024	25544
750	3.72247	4023	3.54522	1234	21.77045	22919	25.31568	24153
800	3.76270	4010	3.55756	1325	21.99964	21607	25.55721	22931
850	3.80280	3939	3.57081	1398	22.21571	20450	25.78652	21848
900	3.84219	3826	3.58479	1456	22.42021	19421	26.00500	20877
950	3.88045	3685	3.59935	1498	22.61442	18500	26.21377	19999
1000	3.91730	3526	3.61433	1528	22.79942	17671	26.41376	19198
1050	3.95256	3357	3.62961	1545	22.97613	16921	26.60574	18466
1100	3.98613	3185	3.64506	1553	23.14534	16237	26.79040	17790
1150	4.01798	3012	3.66059	1552	23.30771	15612	26.96830	17164

Table 2.102. TF (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.04810	5527	3.67611	3078	23.46383	29546	27.13994	32625
1300	4.10337	4908	3.70689	3011	23.75929	27582	27.46619	30593
1400	4.15245	4355	3.73700	2918	24.03511	25883	27.77212	28800
1500	4.19600	3868	3.76618	2809	24.29394	24397	28.06012	27206
1600	4.23468	3446	3.79427	2694	24.53791	23084	28.33218	25778
1700	4.26914	3079	3.82121	2576	24.76875	21915	28.58996	24491
1800	4.29993	2764	3.84697	2458	24.98790	20866	28.83487	23324
1900	4.32757	2490	3.87155	2343	25.19656	19918	29.06811	22262
2000	4.35247	2255	3.89498	2233	25.39574	19058	29.29073	21291
2100	4.37502	2051	3.91731	2128	25.58632	18273	29.50364	20401
2200	4.39553	1874	3.93859	2028	25.76905	17553	29.70765	19581
2300	4.41427	1721	3.95887	1934	25.94458	16890	29.90346	18823
2400	4.43148	1585	3.97821	1845	26.11348	16278	30.09169	18123
2500	4.44733	1468	3.99666	1762	26.27626	15709	30.27292	17472
2600	4.46201	1365	4.01428	1684	26.43335	15182	30.44764	16866
2700	4.47566	1274	4.03112	1611	26.58517	14690	30.61630	16300
2800	4.48840	1193	4.04723	1542	26.73207	14229	30.77930	15771
2900	4.50033	1122	4.06265	1478	26.87436	13798	30.93701	15276
3000	4.51155	2061	4.07743	2778	27.01234	26405	31.08977	29184
3200	4.53216	1857	4.10521	2567	27.27639	24966	31.38161	27533
3400	4.55073	1693	4.13088	2381	27.52605	23680	31.65694	26060
3600	4.56766	1559	4.15469	2215	27.76285	22523	31.91754	24738
3800	4.58325	1449	4.17684	2068	27.98808	21478	32.16492	23547
4000	4.59774	1358	4.19752	1939	28.20286	20527	32.40039	22465
4200	4.61132	1281	4.21691	1822	28.40813	19659	32.62504	21482
4400	4.62413	1215	4.23513	1718	28.60472	18865	32.83986	20582
4600	4.63628	1161	4.25231	1624	28.79337	18132	33.04568	19757
4800	4.64789	1113	4.26855	1540	28.97469	17457	33.24325	18996
5000	4.65902		4.28395		29.14926		33.43321	

Table 2.103. C1H

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50294	- 57	3.39804	1743	12.81449	62118	16.21254	63861
60	3.50237	- 29	3.41547	1239	13.43567	52748	16.85115	53987
70	3.50208	- 14	3.42786	927	13.96315	45836	17.39102	46763
80	3.50194	- 5	3.43713	720	14.42151	40527	17.85865	41246
90	3.50189		3.44433	575	14.82678	36320	18.27111	36896
100	3.50189	4	3.45008	472	15.18998	32906	18.64007	33377
110	3.50193	6	3.45480	393	15.51904	30078	18.97384	30471
120	3.50199	8	3.45873	333	15.81982	27698	19.27855	28031
130	3.50207	9	3.46206	286	16.09680	25668	19.55886	25954
140	3.50216	10	3.46492	248	16.35348	23914	19.81840	24163
150	3.50226	10	3.46740	219	16.59262	22385	20.06003	22603
160	3.50236	11	3.46959	193	16.81647	21040	20.28606	21233
170	3.50247	12	3.47152	172	17.02687	19848	20.49839	20020
180	3.50259	12	3.47324	155	17.22535	18783	20.69859	18938
190	3.50271	12	3.47479	140	17.41318	17827	20.88797	17967
200	3.50283	12	3.47619	127	17.59145	16963	21.06764	17091
210	3.50295	12	3.47746	116	17.76108	16180	21.23855	16296
220	3.50307	13	3.47862	107	17.92288	15466	21.40151	15572
230	3.50320	13	3.47969	98	18.07754	14811	21.55723	14910
240	3.50333	14	3.48067	91	18.22565	14211	21.70633	14301
250	3.50347	14	3.48158	84	18.36776	13657	21.84934	13741
260	3.50361	15	3.48242	79	18.50433	13144	21.98675	13223
270	3.50376	16	3.48321	74	18.63577	12669	22.11898	12743
280	3.50392	17	3.48395	69	18.76246	12227	22.24641	12296
290	3.50409	20	3.48464	65	18.88473	11814	22.36937	11880
300	3.50429	22	3.48529	62	19.00287	11430	22.48817	11491
310	3.50451	25	3.48591	58	19.11717	11068	22.60308	11126
320	3.50476	29	3.48649	56	19.22785	10729	22.71434	10786
330	3.50505	33	3.48705	53	19.33514	10411	22.82220	10464
340	3.50538	39	3.48758	52	19.43925	10110	22.92684	10162
350	3.50577	46	3.48810	49	19.54035	9827	23.02846	9876
360	3.50623	52	3.48859	49	19.63862	9559	23.12722	9608
370	3.50675	61	3.48908	47	19.73421	9306	23.22330	9352
380	3.50736	70	3.48955	47	19.82727	9065	23.31682	9112
390	3.50806	80	3.49002	46	19.91792	8836	23.40794	8882
400	3.50886	585	3.49048	233	20.00628	41126	23.49676	41359
450	3.51471	963	3.49281	264	20.41754	36813	23.91035	37078
500	3.52434	1403	3.49545	323	20.78567	33330	24.28113	33653
550	3.53837	1856	3.49868	405	21.11897	30459	24.61766	30864
600	3.55693	2282	3.50273	502	21.42356	28056	24.92630	28558
650	3.57975	2653	3.50775	607	21.70412	26017	25.21188	26624
700	3.60628	2952	3.51382	713	21.96429	24267	25.47812	24980
750	3.63580	3176	3.52095	817	22.20696	22749	25.72792	23565
800	3.66756	3329	3.52912	911	22.43445	21422	25.96357	22334
850	3.70085	3417	3.53823	998	22.64867	20252	26.18691	21250
900	3.73502	3450	3.54821	1074	22.85119	19213	26.39941	20286
950	3.76952	3440	3.55895	1139	23.04332	18283	26.60227	19423
1000	3.80392	3392	3.57034	1193	23.22615	17449	26.79650	18642
1050	3.83784	3320	3.58227	1238	23.40064	16693	26.98292	17930
1100	3.87104	3226	3.59465	1272	23.56757	16007	27.16222	17279
1150	3.90330	3119	3.60737	1299	23.72764	15380	27.33501	16679

Table 2.103. ClH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	3.93449	5887	3.62036	2645	23.88144	29083	27.50180	31728
1300	3.99336	5396	3.64681	2671	24.17227	27123	27.81908	29795
1400	4.04732	4915	3.67352	2659	24.44350	25436	28.11703	28094
1500	4.09647	4459	3.70011	2619	24.69786	23963	28.39797	26583
1600	4.14106	4040	3.72630	2560	24.93749	22668	28.66380	25228
1700	4.18146	3663	3.75190	2490	25.16417	21516	28.91608	24006
1800	4.21809	3325	3.77680	2412	25.37933	20485	29.15614	22897
1900	4.25134	3025	3.80092	2329	25.58418	19556	29.38511	21884
2000	4.28159	2758	3.82421	2244	25.77974	18713	29.60395	20958
2100	4.30917	2523	3.84665	2161	25.96687	17945	29.81353	20105
2200	4.33440	2316	3.86826	2077	26.14632	17241	30.01458	19319
2300	4.35756	2131	3.88903	1998	26.31873	16594	30.20777	18592
2400	4.37887	1970	3.90901	1919	26.48467	15997	30.39369	17915
2500	4.39857	1825	3.92820	1845	26.64464	15443	30.57284	17288
2600	4.41682	1697	3.94665	1773	26.79907	14928	30.74572	16701
2700	4.43379	1584	3.96438	1705	26.94835	14449	30.91273	16154
2800	4.44963	1482	3.98143	1640	27.09284	14000	31.07427	15641
2900	4.46445	1392	3.99783	1579	27.23284	13580	31.23068	15158
3000	4.47837	2548	4.01362	2986	27.36864	26000	31.38226	28986
3200	4.50385	2285	4.04348	2776	27.62864	24597	31.67212	27374
3400	4.52670	2072	4.07124	2589	27.87461	23345	31.94586	25934
3600	4.54742	1895	4.09713	2421	28.10806	22218	32.20520	24638
3800	4.56637	1749	4.12134	2269	28.33024	21198	32.45158	23467
4000	4.58386	1628	4.14403	2134	28.54222	20271	32.68625	22405
4200	4.60014	1525	4.16537	2011	28.74493	19424	32.91030	21435
4400	4.61539	1437	4.18548	1901	28.93917	18648	33.12465	20549
4600	4.62976	1363	4.20449	1800	29.12565	17932	33.33014	19733
4800	4.64339	1299	4.22249	1710	29.30497	17272	33.52747	18982
5000	4.65638		4.23959		29.47769		33.71729	

Table 2.104. C1D

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50125	- 4	3.44808	886	13.46718	62949	16.91527	63834
60	3.50121	2	3.45694	632	14.09667	53339	17.55361	53972
70	3.50123	7	3.46326	475	14.63006	46278	18.09333	46753
80	3.50130	9	3.46801	370	15.09284	40870	18.56086	41240
90	3.50139	10	3.47171	298	15.50154	36594	18.97326	36891
100	3.50149	11	3.47469	244	15.86748	33129	19.34217	33373
110	3.50160	11	3.47713	204	16.19877	30264	19.67590	30469
120	3.50171	12	3.47917	174	16.50141	27855	19.98059	28029
130	3.50183	13	3.48091	150	16.77996	25802	20.26088	25952
140	3.50196	12	3.48241	131	17.03798	24031	20.52040	24161
150	3.50208	13	3.48372	115	17.27829	22487	20.76201	22603
160	3.50221	13	3.48487	102	17.50316	21130	20.98804	21232
170	3.50234	14	3.48589	92	17.71446	19928	21.20036	20019
180	3.50248	15	3.48681	83	17.91374	18854	21.40055	18938
190	3.50263	17	3.48764	75	18.10228	17892	21.58993	17966
200	3.50280	19	3.48839	69	18.28120	17021	21.76959	17091
210	3.50299	22	3.48908	64	18.45141	16233	21.94050	16296
220	3.50321	28	3.48972	59	18.61374	15514	22.10346	15573
230	3.50349	34	3.49031	56	18.76888	14856	22.25919	14912
240	3.50383	44	3.49087	53	18.91744	14251	22.40831	14304
250	3.50427	54	3.49140	50	19.05995	13695	22.55135	13745
260	3.50481	68	3.49190	49	19.19690	13179	22.68880	13229
270	3.50549	84	3.49239	48	19.32869	12702	22.82109	12750
280	3.50633	103	3.49287	48	19.45571	12258	22.94859	12306
290	3.50736	123	3.49335	49	19.57829	11844	23.07165	11892
300	3.50859	148	3.49384	50	19.69673	11457	23.19057	11507
310	3.51007	172	3.49434	52	19.81130	11095	23.30564	11147
320	3.51179	201	3.49486	54	19.92225	10755	23.41711	10809
330	3.51380	229	3.49540	58	20.02980	10435	23.52520	10493
340	3.51609	261	3.49598	61	20.13415	10135	23.63013	10196
350	3.51870	294	3.49659	65	20.23550	9851	23.73209	9917
360	3.52164	326	3.49724	70	20.33401	9583	23.83126	9653
370	3.52490	361	3.49794	76	20.42984	9330	23.92779	9405
380	3.52851	395	3.49870	81	20.52314	9089	24.02184	9171
390	3.53246	430	3.49951	88	20.61403	8861	24.11355	8948
400	3.53676	2655	3.50039	544	20.70264	41258	24.20303	41803
450	3.56331	3415	3.50583	740	21.11522	36974	24.62106	37714
500	3.59746	4005	3.51323	944	21.48496	33528	24.99820	34471
550	3.63751	4401	3.52267	1138	21.82024	30698	25.34291	31837
600	3.68152	4615	3.53405	1311	22.12722	28339	25.66128	29649
650	3.72767	4680	3.54716	1457	22.41061	26340	25.95777	27797
700	3.77447	4631	3.56173	1573	22.67401	24626	26.23574	26199
750	3.82078	4502	3.57746	1662	22.92027	23141	26.49773	24804
800	3.86580	4320	3.59408	1726	23.15168	21841	26.74577	23567
850	3.90900	4105	3.61134	1769	23.37009	20691	26.98144	22460
900	3.95005	3874	3.62903	1793	23.57700	19670	27.20604	21462
950	3.98879	3639	3.64696	1801	23.77370	18752	27.42066	20553
1000	4.02518	3406	3.66497	1797	23.96122	17925	27.62619	19722
1050	4.05924	3181	3.68294	1784	24.14047	17174	27.82341	18958
1100	4.09105	2966	3.70078	1762	24.31221	16490	28.01299	18252
1150	4.12071	2765	3.71840	1734	24.47711	15862	28.19551	17597

Table 2.104. C1D (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.14836	4978	3.73574	3370	24.63573	30036	28.37148	33406
1300	4.19814	4331	3.76944	3221	24.93609	28053	28.70554	31273
1400	4.24145	3784	3.80165	3061	25.21662	26334	29.01827	29395
1500	4.27929	3321	3.83226	2899	25.47996	24826	29.31222	27726
1600	4.31250	2931	3.86125	2743	25.72822	23492	29.58948	26235
1700	4.34181	2604	3.88868	2591	25.96314	22301	29.85183	24892
1800	4.36785	2327	3.91459	2448	26.18615	21232	30.10075	23679
1900	4.39112	2092	3.93907	2313	26.39847	20264	30.33754	22578
2000	4.41204	1893	3.96220	2188	26.60111	19385	30.56332	21573
2100	4.43097	1722	3.98408	2071	26.79496	18582	30.77905	20653
2200	4.44819	1576	4.00479	1963	26.98078	17846	30.98558	19808
2300	4.46395	1450	4.02442	1862	27.15924	17167	31.18366	19030
2400	4.47845	1341	4.04304	1769	27.33091	16541	31.37396	18309
2500	4.49186	1246	4.06073	1682	27.49632	15960	31.55705	17642
2600	4.50432	1163	4.07755	1603	27.65592	15419	31.73347	17022
2700	4.51595	1091	4.09358	1528	27.81011	14915	31.90369	16443
2800	4.52686	1027	4.10886	1459	27.95926	14444	32.06812	15904
2900	4.53713	971	4.12345	1395	28.10370	14003	32.22716	15398
3000	4.54684	1798	4.13740	2616	28.24373	26787	32.38114	29403
3200	4.56482	1639	4.16356	2410	28.51160	25315	32.67517	27724
3400	4.58121	1511	4.18766	2228	28.76475	24000	32.95241	26229
3600	4.59632	1408	4.20994	2071	29.00475	22818	33.21470	24889
3800	4.61040	1323	4.23065	1933	29.23293	21750	33.46359	23682
4000	4.62363	1252	4.24998	1809	29.45043	20780	33.70041	22589
4200	4.63615	1193	4.26807	1700	29.65823	19895	33.92630	21595
4400	4.64808	1142	4.28507	1604	29.85718	19083	34.14225	20687
4600	4.65950	1100	4.30111	1516	30.04801	18338	34.34912	19854
4800	4.67050	1062	4.31627	1438	30.23139	17649	34.54766	19088
5000	4.68112		4.33065		30.40788		34.73854	

Table 2.105. C1T

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50094	5	3.46457	607	13.86664	63224	17.33122	63830
60	3.50099	9	3.47064	434	14.49888	53534	17.96952	53969
70	3.50108	10	3.47498	327	15.03422	46424	18.50921	46751
80	3.50118	11	3.47825	255	15.49846	40984	18.97672	41238
90	3.50129	12	3.48080	206	15.90830	36685	19.38910	36891
100	3.50141	12	3.48286	169	16.27515	33203	19.75801	33372
110	3.50153	13	3.48455	142	16.60718	30326	20.09173	30468
120	3.50166	13	3.48597	121	16.91044	27907	20.39641	28029
130	3.50179	13	3.48718	105	17.18951	25847	20.67670	25952
140	3.50192	14	3.48823	92	17.44798	24070	20.93622	24161
150	3.50206	16	3.48915	81	17.68868	22521	21.17783	22602
160	3.50222	18	3.48996	73	17.91389	21160	21.40385	21233
170	3.50240	23	3.49069	65	18.12549	19954	21.61618	20020
180	3.50263	29	3.49134	60	18.32503	18878	21.81638	18938
190	3.50292	38	3.49194	56	18.51381	17913	22.00576	17969
200	3.50330	51	3.49250	53	18.69294	17041	22.18545	17094
210	3.50381	69	3.49303	50	18.86335	16251	22.35639	16301
220	3.50450	89	3.49353	50	19.02586	15531	22.51940	15580
230	3.50539	114	3.49403	49	19.18117	14871	22.67520	14921
240	3.50653	145	3.49452	51	19.32988	14267	22.82441	14317
250	3.50798	179	3.49503	53	19.47255	13708	22.96758	13762
260	3.50977	216	3.49556	57	19.60963	13194	23.10520	13250
270	3.51193	257	3.49613	61	19.74157	12716	23.23770	12777
280	3.51450	302	3.49674	66	19.86873	12271	23.36547	12338
290	3.51752	348	3.49740	73	19.99144	11858	23.48885	11930
300	3.52100	396	3.49813	80	20.11002	11472	23.60815	11552
310	3.52496	445	3.49893	88	20.22474	11110	23.72367	11198
320	3.52941	495	3.49981	97	20.33584	10771	23.83565	10868
330	3.53436	545	3.50078	107	20.44355	10452	23.94433	10559
340	3.53981	594	3.50185	117	20.54807	10153	24.04992	10270
350	3.54575	642	3.50302	127	20.64960	9870	24.15262	9998
360	3.55217	689	3.50429	139	20.74830	9603	24.25260	9741
370	3.55906	734	3.50568	150	20.84433	9351	24.35001	9501
380	3.56640	777	3.50718	161	20.93784	9112	24.44502	9274
390	3.57417	817	3.50879	174	21.02896	8886	24.53776	9060
400	3.58234	4606	3.51053	1047	21.11782	41406	24.62836	42452
450	3.62840	5223	3.52100	1331	21.53188	37164	25.05288	38495
500	3.68063	5525	3.53431	1580	21.90352	33758	25.43783	35338
550	3.73588	5575	3.55011	1781	22.24110	30965	25.79121	32746
600	3.79163	5448	3.56792	1932	22.55075	28634	26.11867	30566
650	3.84611	5208	3.58724	2036	22.83709	26658	26.42433	28695
700	3.89819	4901	3.60760	2103	23.10367	24961	26.71128	27064
750	3.94720	4567	3.62863	2135	23.35328	23487	26.98192	25622
800	3.99287	4226	3.64998	2143	23.58815	22192	27.23814	24335
850	4.03513	3893	3.67141	2131	23.81007	21046	27.48149	23176
900	4.07406	3577	3.69272	2102	24.02053	20022	27.71325	22125
950	4.10983	3282	3.71374	2064	24.22075	19102	27.93450	21165
1000	4.14265	3012	3.73438	2017	24.41177	18269	28.14615	20286
1050	4.17277	2763	3.75455	1964	24.59446	17512	28.34901	19477
1100	4.20040	2539	3.77419	1909	24.76958	16819	28.54378	18728
1150	4.22579	2336	3.79328	1852	24.93777	16183	28.73106	18035

Table 2. 105. C1T (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.24915	4138	3.81180	3528	25.09960	30652	28.91141	34179
1300	4.29053	3540	3.84708	3297	25.40612	28632	29.25320	31929
1400	4.32593	3054	3.88005	3076	25.69244	26876	29.57249	29953
1500	4.35647	2657	3.91081	2871	25.96120	25332	29.87202	28202
1600	4.38304	2332	3.93952	2679	26.21452	23965	30.15404	26644
1700	4.40636	2064	3.96631	2503	26.45417	22742	30.42048	25245
1800	4.42700	1842	3.99134	2342	26.68159	21644	30.67293	23986
1900	4.44542	1657	4.01476	2196	26.89803	20649	30.91279	22845
2000	4.46199	1501	4.03672	2061	27.10452	19746	31.14124	21807
2100	4.47700	1370	4.05733	1939	27.30198	18920	31.35931	20859
2200	4.49070	1259	4.07672	1828	27.49118	18162	31.56790	19991
2300	4.50329	1163	4.09500	1726	27.67280	17465	31.76781	19190
2400	4.51492	1031	4.11226	1632	27.84745	16821	31.95971	18453
2500	4.52573	1011	4.12858	1547	28.01566	16223	32.14424	17770
2600	4.53584	949	4.14405	1469	28.17789	15667	32.32194	17137
2700	4.54533	895	4.15874	1397	28.33456	15150	32.49331	16546
2800	4.55428	849	4.17271	1330	28.48606	14666	32.65877	15997
2900	4.56277	808	4.18601	1270	28.63272	14213	32.81874	15482
3000	4.57085	1509	4.19871	2374	28.77485	27175	32.97356	29549
3200	4.58594	1395	4.22245	2179	29.04660	25664	33.26905	27844
3400	4.59989	1302	4.24424	2013	29.30324	24318	33.54749	26330
3600	4.61291	1227	4.26437	1867	29.54642	23106	33.81079	24974
3800	4.62518	1165	4.28304	1740	29.77748	22014	34.06053	23754
4000	4.63683	1114	4.30044	1628	29.99762	21022	34.29807	22650
4200	4.64797	1072	4.31672	1530	30.20784	20117	34.52457	21647
4400	4.65869	1035	4.33202	1443	30.40901	19289	34.74104	20732
4600	4.66904	1004	4.34645	1366	30.60190	18527	34.94836	19892
4800	4.67908	977	4.36011	1295	30.78717	17826	35.14728	19121
5000	4.68885		4.37306		30.96543		35.33849	

Table 2.106. BrH

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50219	- 30	3.41894	1384	14.21309	62465	17.63203	63850
60	3.50189	- 11	3.43278	987	14.83774	52995	18.27053	53981
70	3.50178	- 2	3.44265	739	15.36769	46021	18.81034	46760
80	3.50176	3	3.45004	574	15.82790	40670	19.27794	41245
90	3.50179	7	3.45578	461	16.23460	36435	19.69039	36895
100	3.50186	9	3.46039	377	16.59895	32999	20.05934	33377
110	3.50195	10	3.46416	315	16.92894	30156	20.39311	30471
120	3.50205	12	3.46731	268	17.23050	27764	20.69782	28032
130	3.50217	12	3.46999	230	17.50814	25724	20.97814	25954
140	3.50229	13	3.47229	201	17.76538	23964	21.23768	24164
150	3.50242	13	3.47430	176	18.00502	22428	21.47932	22605
160	3.50255	14	3.47606	156	18.22930	21078	21.70537	21234
170	3.50269	14	3.47762	140	18.44008	19882	21.91771	20021
180	3.50283	14	3.47902	126	18.63890	18814	22.11792	18940
190	3.50297	15	3.48028	113	18.82704	17854	22.30732	17968
200	3.50312	14	3.48141	104	19.00558	16988	22.48700	17092
210	3.50326	15	3.48245	95	19.17546	16203	22.65792	16298
220	3.50341	16	3.48340	87	19.33749	15486	22.82090	15573
230	3.50357	17	3.48427	81	19.49235	14831	22.97663	14912
240	3.50374	19	3.48508	75	19.64066	14228	23.12575	14303
250	3.50393	20	3.48583	70	19.78294	13673	23.26878	13743
260	3.50413	23	3.48653	66	19.91967	13160	23.40621	13225
270	3.50436	27	3.48719	62	20.05127	12683	23.53846	12745
280	3.50463	30	3.48781	58	20.17810	12240	23.66591	12299
290	3.50493	37	3.48839	56	20.30050	11828	23.78890	11883
300	3.50530	43	3.48895	53	20.41878	11441	23.90773	11494
310	3.50573	51	3.48948	52	20.53319	11079	24.02267	11132
320	3.50624	61	3.49000	50	20.64398	10740	24.13399	10790
330	3.50685	71	3.49050	49	20.75138	10421	24.24189	10470
340	3.50756	83	3.49099	49	20.85559	10120	24.34659	10168
350	3.50839	96	3.49148	48	20.95679	9837	24.44827	9885
360	3.50935	112	3.49196	48	21.05516	9568	24.54712	9617
370	3.51047	128	3.49244	49	21.15084	9315	24.64329	9364
380	3.51175	145	3.49293	50	21.24399	9073	24.73693	9123
390	3.51320	163	3.49343	52	21.33472	8846	24.82816	8897
400	3.51483	1124	3.49395	289	21.42318	41169	24.91713	41458
450	3.52607	1688	3.49684	372	21.83487	36861	25.33171	37234
500	3.54295	2257	3.50056	484	22.20348	33386	25.70405	33869
550	3.56552	2772	3.50540	613	22.53734	30526	26.04274	31140
600	3.59324	3195	3.51153	749	22.84260	28136	26.35414	28885
650	3.62519	3512	3.51902	883	23.12396	26110	26.64299	26992
700	3.66031	3725	3.52785	1006	23.38506	24373	26.91291	25380
750	3.69756	3842	3.53791	1117	23.62879	22869	27.16671	23986
800	3.73598	3883	3.54908	1214	23.85748	21552	27.40657	22765
850	3.77481	3861	3.56122	1294	24.07300	20392	27.63422	21686
900	3.81342	3790	3.57416	1359	24.27692	19360	27.85108	20720
950	3.85132	3685	3.58775	1411	24.47052	18439	28.05828	19849
1000	3.88817	3556	3.60186	1448	24.65491	17608	28.25677	19057
1050	3.92373	3412	3.61634	1476	24.83099	16857	28.44734	18333
1100	3.95785	3260	3.63110	1492	24.99956	16174	28.63067	17666
1150	3.99045	3103	3.64602	1500	25.16130	15549	28.80733	17049

Table 2.106. BrH (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.02148	5742	3.66102	2998	25.31679	29423	28.97782	32420
1300	4.07890	5150	3.69100	2958	25.61102	27461	29.30202	30420
1400	4.13040	4608	3.72058	2888	25.88563	25769	29.60622	28657
1500	4.17648	4123	3.74946	2800	26.14332	24288	29.89279	27088
1600	4.21771	3696	3.77746	2701	26.38620	22982	30.16367	25683
1700	4.25467	3321	3.80447	2595	26.61602	21820	30.42050	24414
1800	4.28788	2996	3.83042	2488	26.83422	20777	30.66464	23265
1900	4.31784	2712	3.85530	2381	27.04199	19836	30.89729	22218
2000	4.34496	2466	3.87911	2278	27.24035	18982	31.11947	21260
2100	4.36962	2251	3.90189	2178	27.43017	18203	31.33207	20380
2200	4.39213	2064	3.92367	2082	27.61220	17487	31.53587	19570
2300	4.41277	1900	3.94449	1992	27.78707	16830	31.73157	18821
2400	4.43177	1756	3.96441	1905	27.95537	16223	31.91978	18128
2500	4.44933	1631	3.98346	1823	28.11760	15659	32.10106	17483
2600	4.46564	1519	4.00169	1747	28.27419	15135	32.27589	16882
2700	4.48083	1421	4.01916	1674	28.42554	14648	32.44471	16322
2800	4.49504	1335	4.03590	1607	28.57202	14190	32.60793	15797
2900	4.50839	1257	4.05197	1543	28.71392	13763	32.76590	15305
3000	4.52096	2315	4.06740	2908	28.85155	26345	32.91895	29253
3200	4.54411	2092	4.09648	2696	29.11500	24917	33.21118	27613
3400	4.56503	1914	4.12344	2507	29.36417	23640	33.48761	26148
3600	4.58417	1766	4.14851	2340	29.60057	22494	33.74909	24833
3800	4.60183	1645	4.17191	2191	29.82551	21455	33.99742	23646
4000	4.61828	1543	4.19382	2058	30.04006	20512	34.23388	22571
4200	4.63371	1459	4.21440	1940	30.24518	19651	34.45959	21590
4400	4.64830	1386	4.23380	1832	30.44169	18860	34.67549	20693
4600	4.66216	1324	4.25212	1737	30.63029	18134	34.88242	19870
4800	4.67540	1271	4.26949	1649	30.81163	17463	35.08112	19112
5000	4.68811		4.28598		30.98626		35.27224	

Table 2.107. BrD

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50109	4	3.45929	697	14.86715	63136	18.32644	63833
60	3.50113	8	3.46626	498	15.49851	53472	18.96477	53970
70	3.50121	10	3.47124	376	16.03323	46377	19.50447	46753
80	3.50131	12	3.47500	293	16.49700	40947	19.97200	41241
90	3.50143	13	3.47793	235	16.90647	36657	20.38441	36892
100	3.50156	13	3.48028	194	17.27304	33180	20.75333	33374
110	3.50169	14	3.48222	163	17.60484	30306	21.08707	30449
120	3.50183	14	3.48385	139	17.90790	27892	21.39176	28030
130	3.50197	14	3.48524	120	18.18682	25833	21.67206	25953
140	3.50211	15	3.48644	105	18.44515	24057	21.93159	24163
150	3.50226	15	3.48749	93	18.68572	22511	22.17322	22603
160	3.50241	17	3.48842	82	18.91083	21151	22.39925	21234
170	3.50258	19	3.48924	75	19.12234	19946	22.61159	20021
180	3.50277	23	3.48999	68	19.32180	18871	22.81180	18939
190	3.50300	29	3.49067	62	19.51051	17907	23.00119	17969
200	3.50329	37	3.49129	58	19.68958	17035	23.18088	17033
210	3.50366	48	3.49187	55	19.85993	16246	23.35181	16300
220	3.50414	62	3.49242	52	20.02239	15525	23.51481	15578
230	3.50476	80	3.49294	51	20.17764	14867	23.67059	14918
240	3.50556	101	3.49345	50	20.32631	14262	23.81977	14312
250	3.50657	127	3.49395	51	20.46893	13705	23.96289	13756
260	3.50784	156	3.49446	53	20.60598	13189	24.10045	13241
270	3.50940	188	3.49499	54	20.73787	12712	24.23286	12766
280	3.51128	222	3.49553	58	20.86499	12267	24.36052	12326
290	3.51350	261	3.49611	63	20.98766	11853	24.48378	11915
300	3.51611	301	3.49674	67	21.10619	11467	24.60293	11534
310	3.51912	343	3.49741	73	21.22086	11105	24.71827	11178
320	3.52255	386	3.49814	80	21.33191	10766	24.83005	10846
330	3.52641	431	3.49894	87	21.43957	10446	24.93851	10533
340	3.53072	475	3.49981	95	21.54403	10147	25.04384	10242
350	3.53547	519	3.50076	103	21.64550	9863	25.14626	9967
360	3.54066	563	3.50179	113	21.74413	9596	25.24593	9708
370	3.54629	607	3.50292	122	21.84009	9343	25.34301	9466
380	3.55236	648	3.50414	132	21.93352	9104	25.43767	9235
390	3.55884	690	3.50546	142	22.02456	8877	25.53002	9019
400	3.56574	3988	3.50688	867	22.11333	41353	25.62021	42221
450	3.60562	4691	3.51555	1131	22.52686	37096	26.04242	38227
500	3.65253	5113	3.52686	1373	22.89782	33677	26.42469	35049
550	3.70366	5289	3.54059	1578	23.23459	30874	26.77518	32453
600	3.75655	5276	3.55637	1744	23.54333	28534	27.09971	30277
650	3.80931	5129	3.57381	1866	23.82867	26552	27.40248	28419
700	3.86060	4900	3.59247	1953	24.09419	24852	27.68667	26804
750	3.90960	4622	3.61200	2006	24.34271	23375	27.95471	25381
800	3.95582	4323	3.63206	2033	24.57646	22080	28.20852	24114
850	3.99905	4019	3.65239	2039	24.79726	20935	28.44966	22973
900	4.03924	3722	3.67278	2028	25.00661	19912	28.67939	21940
950	4.07646	3439	3.69306	2004	25.20573	18934	28.89879	20998
1000	4.11085	3175	3.71310	1970	25.39567	18164	29.10877	20135
1050	4.14260	2930	3.73280	1931	25.57731	17410	29.31012	19340
1100	4.17190	2704	3.75211	1884	25.75141	16720	29.50352	18605
1150	4.19894	2498	3.77095	1836	25.91861	16088	29.68957	17924

Table 2.107. BrD (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.22392	4449	3.78931	3519	26.07949	30471	29.86881	33990
1300	4.26841	3829	3.82450	3311	26.38420	28465	30.20871	31776
1400	4.30670	3318	3.85761	3107	26.66885	26722	30.52647	29829
1500	4.33988	2898	3.88868	2913	26.93607	25191	30.82476	28103
1600	4.36886	2552	3.91781	2729	27.18798	23835	31.10579	26565
1700	4.39438	2263	3.94510	2560	27.42633	22622	31.37144	25182
1800	4.41701	2024	3.97070	2404	27.65255	21534	31.62326	23937
1900	4.43725	1823	3.99474	2259	27.86789	20548	31.86263	22807
2000	4.45548	1654	4.01733	2126	28.07337	19653	32.09070	21780
2100	4.47202	1510	4.03859	2005	28.26990	18834	32.30850	20839
2200	4.48712	1388	4.05864	1894	28.45824	18084	32.51689	19977
2300	4.50100	1283	4.07758	1791	28.63908	17392	32.71666	19183
2400	4.51383	1193	4.09549	1697	28.81300	16753	32.90849	18451
2500	4.52576	1115	4.11246	1612	28.98053	16161	33.09300	17773
2600	4.53691	1047	4.12858	1532	29.14214	15611	33.27073	17142
2700	4.54738	987	4.14390	1458	29.29825	15097	33.44215	16556
2800	4.55725	936	4.15848	1392	29.44922	14617	33.60771	16008
2900	4.56661	890	4.17240	1329	29.59539	14168	33.76779	15497
3000	4.57551	1663	4.18569	2489	29.73707	27094	33.92276	29583
3200	4.59214	1534	4.21058	2290	30.00801	25596	34.21859	27887
3400	4.60748	1431	4.23348	2118	30.26397	24259	34.49746	26376
3600	4.62179	1347	4.25466	1968	30.50656	23057	34.76122	25025
3800	4.63526	1279	4.27434	1837	30.73713	21972	35.01147	23809
4000	4.64805	1220	4.29271	1721	30.95685	20986	35.24956	22708
4200	4.66025	1173	4.30992	1619	31.16671	20088	35.47664	21706
4400	4.67198	1131	4.32611	1529	31.36759	19264	35.69370	20793
4600	4.68329	1097	4.34140	1447	31.56023	18508	35.90163	19956
4800	4.69426	1066	4.35587	1375	31.74531	17809	36.10119	19184
5000	4.70492		4.36962		31.92340		36.29303	

Table 2.108. BrT

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50089	10	3.47268	471	15.26475	63359	18.73744	63829
60	3.50099	12	3.47739	338	15.89834	53631	19.37573	53969
70	3.50111	13	3.48077	255	16.43465	46497	19.91542	46752
80	3.50124	13	3.48332	200	16.89962	41039	20.38294	41239
90	3.50137	14	3.48532	161	17.31001	36730	20.79533	36892
100	3.50151	14	3.48693	133	17.67731	33241	21.16425	33374
110	3.50165	15	3.48826	112	18.00972	30357	21.49799	30469
120	3.50180	15	3.48938	96	18.31329	27934	21.80268	28030
130	3.50195	17	3.49034	84	18.59263	25869	22.08298	25953
140	3.50212	21	3.49118	74	18.85132	24089	22.34251	24162
150	3.50233	26	3.49192	65	19.09221	22539	22.58413	22605
160	3.50259	37	3.49257	60	19.31760	21175	22.81018	21235
170	3.50296	50	3.49317	56	19.52935	19968	23.02253	20024
180	3.50346	71	3.49373	53	19.72903	18891	23.22277	18944
190	3.50417	96	3.49426	52	19.91794	17925	23.41221	17976
200	3.50513	129	3.49478	52	20.09719	17052	23.59197	17105
210	3.50642	168	3.49530	54	20.26771	16262	23.76302	16315
220	3.50810	214	3.49584	58	20.43033	15541	23.92617	15599
230	3.51024	264	3.49642	63	20.58574	14882	24.08216	14945
240	3.51288	319	3.49705	69	20.73456	14277	24.23161	14347
250	3.51607	380	3.49774	78	20.87733	13720	24.37508	13797
260	3.51987	441	3.49852	87	21.01453	13205	24.51305	13292
270	3.52428	506	3.49939	98	21.14658	12728	24.64597	12826
280	3.52934	571	3.50037	109	21.27386	12285	24.77423	12395
290	3.53505	636	3.50146	123	21.39671	11873	24.89818	11995
300	3.54141	699	3.50269	136	21.51544	11487	25.01813	11623
310	3.54840	762	3.50405	150	21.63031	11127	25.13436	11278
320	3.55602	821	3.50555	165	21.74158	10790	25.24714	10955
330	3.56423	879	3.50720	181	21.84948	10473	25.35669	10653
340	3.57302	931	3.50901	196	21.95421	10174	25.46322	10371
350	3.58233	982	3.51097	212	22.05595	9894	25.56693	10105
360	3.59215	1027	3.51309	227	22.15489	9628	25.66798	9856
370	3.60242	1069	3.51536	243	22.25117	9378	25.76654	9621
380	3.61311	1107	3.51779	259	22.34495	9141	25.86275	9400
390	3.62418	1140	3.52038	273	22.43636	8917	25.95675	9190
400	3.63558	6065	3.52311	1582	22.52553	41584	26.04865	43166
450	3.69623	6354	3.53893	1890	22.94137	37382	26.48031	39272
500	3.75977	6308	3.55783	2124	23.31519	34008	26.87303	36131
550	3.82285	6047	3.57907	2286	23.65527	31239	27.23434	33525
600	3.88332	5667	3.60193	2385	23.96766	28924	27.56959	31310
650	3.93999	5232	3.62578	2434	24.25690	26959	27.88269	29393
700	3.99231	4785	3.65012	2443	24.52649	25267	28.17662	27709
750	4.04016	4354	3.67455	2423	24.77916	23792	28.45371	26216
800	4.08370	3948	3.69878	2393	25.01708	22496	28.71587	24878
850	4.12318	3577	3.72261	2326	25.24204	21344	28.96465	23671
900	4.15895	3240	3.74587	2261	25.45548	20314	29.20136	22574
950	4.19135	2938	3.76848	2189	25.65862	19385	29.42710	21575
1000	4.22073	2669	3.79037	2114	25.85247	18545	29.64285	20658
1050	4.24742	2430	3.81151	2037	26.03792	17779	29.84943	19816
1100	4.27172	2216	3.83188	1961	26.21571	17077	30.04759	19039
1150	4.29388	2028	3.85149	1887	26.38648	16432	30.23798	18318

Table 2.108. BrT (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.31416	3571	3.87036	3555	26.55080	31121	30.42116	34676
1300	4.34987	3038	3.90591	3282	26.86201	29068	30.76792	32351
1400	4.38025	2614	3.93873	3033	27.15269	27279	31.09143	30312
1500	4.40639	2274	3.96906	2806	27.42548	25707	31.39455	28512
1600	4.42913	1999	3.99712	2601	27.68255	24311	31.67967	26913
1700	4.44912	1775	4.02313	2417	27.92566	23065	31.94880	25481
1800	4.46687	1592	4.04730	2251	28.15631	21944	32.20361	24195
1900	4.48279	1439	4.06981	2101	28.37575	20929	32.44556	23031
2000	4.49718	1312	4.09082	1967	28.58504	20007	32.67587	21974
2100	4.51030	1205	4.11049	1845	28.78511	19165	32.89561	21010
2200	4.52235	1116	4.12894	1735	28.97676	18393	33.10571	20128
2300	4.53351	1038	4.14629	1635	29.16069	17681	33.30699	19316
2400	4.54389	973	4.16264	1545	29.33750	17025	33.50015	18569
2500	4.55362	916	4.17809	1462	29.50775	16415	33.68584	17878
2600	4.56278	867	4.19271	1387	29.67190	15850	33.86462	17236
2700	4.57145	824	4.20658	1318	29.83040	15322	34.03698	16641
2800	4.57969	787	4.21976	1255	29.98362	14830	34.20339	16084
2900	4.58756	754	4.23231	1197	30.13192	14369	34.36423	15566
3000	4.59510	1425	4.24428	2237	30.27561	27464	34.51989	29702
3200	4.60935	1332	4.26665	2056	30.55025	25929	34.81691	27984
3400	4.62267	1259	4.28721	1899	30.80954	24560	35.09675	26459
3600	4.63526	1199	4.30620	1763	31.05514	23330	35.36134	25094
3800	4.64725	1150	4.32383	1646	31.28844	22221	35.61228	23866
4000	4.65875	1109	4.34029	1543	31.51065	21214	35.85094	22758
4200	4.66984	1074	4.35572	1453	31.72279	20296	36.07852	21749
4400	4.68058	1045	4.37025	1372	31.92575	19457	36.29601	20829
4600	4.69103	1019	4.38397	1301	32.12032	18686	36.50430	19986
4800	4.70122	997	4.39698	1237	32.30718	17975	36.70416	19212
5000	4.71119		4.40935		32.48693		36.89628	

Table 2.109. HI

$^{\circ}\text{K}$	$\frac{C_p}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50152	- 12	3.43857	1048	15.13731	62791	18.57588	63839
60	3.50140	- 1	3.44905	747	15.76522	53226	19.21427	53974
70	3.50139	4	3.45652	561	16.29748	46194	19.75401	46755
80	3.50143	7	3.46213	437	16.75942	40804	20.22156	41241
90	3.50150	9	3.46650	351	17.16746	36542	20.63397	36993
100	3.50159	11	3.47001	287	17.53288	33087	21.00290	33374
110	3.50170	11	3.47288	241	17.86375	30229	21.33664	30469
120	3.50181	12	3.47529	205	18.16604	27825	21.64133	28030
130	3.50193	13	3.47734	176	18.44429	25777	21.92163	25953
140	3.50206	12	3.47910	153	18.70206	24008	22.18116	24162
150	3.50218	13	3.48063	135	18.94214	22468	22.42278	22603
160	3.50231	14	3.48198	120	19.16682	21113	22.64881	21233
170	3.50245	13	3.48318	108	19.37795	19913	22.86114	20020
180	3.50258	14	3.48426	96	19.57708	18841	23.06134	18938
190	3.50272	15	3.48522	88	19.76549	17879	23.25072	17967
200	3.50287	17	3.48610	81	19.94428	17011	23.43039	17091
210	3.50304	18	3.48691	73	20.11439	16222	23.60130	16296
220	3.50322	21	3.48764	68	20.27661	15505	23.76426	15573
230	3.50343	25	3.48832	64	20.43166	14848	23.91999	14911
240	3.50368	30	3.48896	59	20.58014	14244	24.06910	14303
250	3.50398	37	3.48955	57	20.72258	13687	24.21213	13744
260	3.50435	45	3.49012	53	20.85945	13173	24.34957	13226
270	3.50480	56	3.49065	52	20.99118	12695	24.48183	12748
280	3.50536	69	3.49117	50	21.11813	12252	24.60931	12301
290	3.50605	83	3.49167	49	21.24065	11838	24.73232	11888
300	3.50688	100	3.49216	49	21.35903	11452	24.85120	11501
310	3.50788	118	3.49265	49	21.47355	11090	24.96621	11138
320	3.50906	140	3.49314	51	21.58445	10749	25.07759	10801
330	3.51046	162	3.49365	52	21.69194	10431	25.18560	10482
340	3.51208	186	3.49417	53	21.79625	10129	25.29042	10183
350	3.51394	212	3.49470	57	21.89754	9846	25.39225	9902
360	3.51606	239	3.49527	59	21.99600	9577	25.49127	9637
370	3.51845	268	3.49586	63	22.09177	9324	25.58764	9386
380	3.52113	297	3.49649	67	22.18501	9083	25.68150	9150
390	3.52410	326	3.49716	71	22.27584	8855	25.77300	8927
400	3.52736	2091	3.49787	437	22.36439	41223	25.86227	41659
450	3.54827	2823	3.50224	596	22.77662	36929	26.27886	37525
500	3.57650	3447	3.50820	773	23.14591	33472	26.65411	34245
550	3.61097	3919	3.51593	953	23.48063	30632	26.99656	31585
600	3.65016	4229	3.52546	1120	23.78695	28262	27.31241	29382
650	3.69245	4396	3.53666	1269	24.06957	26255	27.60623	27525
700	3.73641	4443	3.54935	1395	24.33212	24535	27.88148	25930
750	3.78084	4399	3.56330	1498	24.57747	23044	28.14078	24542
800	3.82483	4289	3.57828	1577	24.80791	21740	28.38620	23317
850	3.86772	4133	3.59405	1636	25.02531	20590	28.61937	22225
900	3.90905	3949	3.61041	1677	25.23121	19565	28.84162	21242
950	3.94854	3751	3.62718	1701	25.42686	18648	29.05404	20350
1000	3.98605	3545	3.64419	1713	25.61334	17822	29.25754	19534
1050	4.02150	3340	3.66132	1714	25.79156	17072	29.45288	18786
1100	4.05490	3139	3.67846	1706	25.96228	16389	29.64074	18095
1150	4.08629	2948	3.69552	1690	26.12617	15764	29.82169	17454

Table 2.109. HI (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.11577	5357	3.71242	3313	26.28381	29846	29.99623	33160
1300	4.16934	4713	3.74555	3199	26.58227	27876	30.32783	31074
1400	4.21647	4155	3.77754	3068	26.86103	26167	30.63857	29236
1500	4.25802	3676	3.80822	2928	27.12270	24672	30.93093	27600
1600	4.29478	3267	3.83750	2788	27.36942	23349	31.20693	26137
1700	4.32745	2920	3.86538	2650	27.60291	22170	31.46830	24819
1800	4.35665	2622	3.89188	2516	27.82461	21110	31.71649	23627
1900	4.38287	2370	3.91704	2389	28.03571	20153	31.95276	22542
2000	4.40657	2152	3.94093	2270	28.23724	19284	32.17818	21553
2100	4.42809	1966	3.96363	2156	28.43008	18489	32.39371	20645
2200	4.44775	1805	3.98519	2051	28.61497	17760	32.60016	19812
2300	4.46580	1666	4.00570	1952	28.79257	17090	32.79828	19042
2400	4.48246	1545	4.02522	1861	28.96347	16470	32.98870	18330
2500	4.49791	1439	4.04383	1774	29.12817	15895	33.17200	17669
2600	4.51230	1347	4.06157	1695	29.28712	15360	33.34869	17055
2700	4.52577	1265	4.07852	1620	29.44072	14862	33.51924	16483
2800	4.53842	1194	4.09472	1551	29.58934	14397	33.68407	15947
2900	4.55036	1131	4.11023	1486	29.73331	13959	33.84354	15445
3000	4.56167	2098	4.12509	2795	29.87290	26713	33.99799	29509
3200	4.58265	1917	4.15304	2584	30.14003	25257	34.29308	27840
3400	4.60182	1772	4.17888	2400	30.39260	23954	34.57148	26354
3600	4.61954	1653	4.20288	2237	30.63214	22785	34.83502	25022
3800	4.63607	1556	4.22525	2093	30.85999	21726	35.08524	23820
4000	4.65163	1473	4.24618	1966	31.07725	20765	35.32344	22731
4200	4.66636	1405	4.26584	1853	31.28490	19888	35.55075	21741
4400	4.68041	1346	4.28437	1751	31.48378	19084	35.76816	20835
4600	4.69387	1296	4.30188	1661	31.67462	18344	35.97651	20004
4800	4.70683	1252	4.31849	1578	31.85806	17661	36.17655	19240
5000	4.71935		4.33427		32.03467		36.36895	

Table 2.110. DI

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50091	7	3.46878	536	15.79979	63293	19.26857	63830
60	3.50098	10	3.47414	384	16.43272	53585	19.90687	53969
70	3.50108	12	3.47798	290	16.96857	46462	20.44656	46751
80	3.50120	12	3.48088	226	17.43319	41012	20.91407	41239
90	3.50132	13	3.48314	183	17.84331	36709	21.32646	36891
100	3.50145	13	3.48497	150	18.21040	33222	21.69537	33373
110	3.50158	13	3.48647	127	18.54262	30342	22.02910	30468
120	3.50171	14	3.48774	108	18.84604	27921	22.33378	28029
130	3.50185	15	3.48882	93	19.12525	25859	22.61407	25952
140	3.50200	17	3.48975	82	19.38384	24079	22.87359	24162
150	3.50217	21	3.49057	74	19.62463	22530	23.11521	22604
160	3.50238	26	3.49131	65	19.84993	21168	23.34125	21233
170	3.50264	36	3.49196	61	20.06161	19962	23.55358	20022
180	3.50300	49	3.49257	56	20.26123	18885	23.75380	18941
190	3.50349	68	3.49313	53	20.45008	17918	23.94321	17972
200	3.50417	91	3.49366	52	20.62926	17047	24.12293	17099
210	3.50508	120	3.49418	52	20.79973	16256	24.29392	16308
220	3.50628	155	3.49470	54	20.96229	15536	24.45700	15590
230	3.50783	195	3.49524	56	21.11765	14877	24.61290	14933
240	3.50978	240	3.49580	61	21.26642	14272	24.76223	14332
250	3.51218	290	3.49641	66	21.40914	13714	24.90555	13781
260	3.51508	342	3.49707	73	21.54628	13200	25.04336	13272
270	3.51850	398	3.49780	81	21.67828	12722	25.17608	12803
280	3.52248	456	3.49861	90	21.80550	12278	25.30411	12369
290	3.52704	514	3.49951	100	21.92828	11866	25.42780	11965
300	3.53218	573	3.50051	111	22.04694	11480	25.54745	11592
310	3.53791	632	3.50162	123	22.16174	11119	25.66337	11242
320	3.54423	689	3.50285	136	22.27293	10781	25.77579	10916
330	3.55112	745	3.50421	149	22.38074	10463	25.88495	10613
340	3.55857	798	3.50570	162	22.48537	10165	25.99108	10326
350	3.56655	850	3.50732	176	22.58702	9883	26.09434	10059
360	3.57505	896	3.50908	191	22.68585	9617	26.19493	9808
370	3.58401	942	3.51099	204	22.78202	9366	26.29301	9570
380	3.59343	983	3.51303	219	22.87568	9128	26.38871	9347
390	3.60326	1020	3.51522	233	22.96696	8902	26.48218	9135
400	3.61346	5546	3.51755	1368	23.05598	41507	26.57353	42875
450	3.66892	5985	3.53123	1674	23.47105	37289	27.00228	38963
500	3.72877	6083	3.54797	1920	23.84394	33904	27.39191	35825
550	3.78960	5946	3.56717	2103	24.18298	31128	27.75016	33230
600	3.84906	5661	3.58820	2227	24.49426	28808	28.08246	31035
650	3.90567	5297	3.61047	2300	24.78234	26840	28.39281	29141
700	3.95864	4900	3.63347	2333	25.05074	25148	28.68422	27481
750	4.00764	4500	3.65680	2335	25.30222	23675	28.95903	26010
800	4.05264	4114	3.68015	2314	25.53897	22381	29.21913	24695
850	4.09378	3752	3.70329	2276	25.76278	21232	29.46608	23507
900	4.13130	3421	3.72605	2224	25.97510	20205	29.70115	22430
950	4.16551	3118	3.74829	2165	26.17715	19282	29.92545	21447
1000	4.19669	2846	3.76994	2101	26.36997	18445	30.13992	20545
1050	4.22515	2600	3.79095	2034	26.55442	17683	30.34537	19717
1100	4.25115	2381	3.81129	1965	26.73125	16985	30.54254	18950
1150	4.27496	2186	3.83094	1896	26.90110	16345	30.73204	18241

Table 2.110. DI (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.29682	3863	3.84990	3590	27.06455	30959	30.91445	34550
1300	4.33545	3302	3.88580	3333	27.37414	28920	31.25995	32253
1400	4.36847	2852	3.91913	3093	27.66334	27146	31.58248	30239
1500	4.39699	2488	3.95006	2873	27.93480	25586	31.88487	28459
1600	4.42187	2192	3.97879	2672	28.19066	24203	32.16946	26874
1700	4.44379	1950	4.00551	2490	28.43269	22966	32.43820	25456
1800	4.46329	1751	4.03041	2325	28.66235	21854	32.69276	24180
1900	4.48080	1586	4.05366	2176	28.88089	20849	32.93456	23024
2000	4.49666	1447	4.07542	2041	29.08938	19934	33.16480	21975
2100	4.51113	1330	4.09583	1918	29.28872	19098	33.38455	21017
2200	4.52443	1231	4.11501	1807	29.47970	18333	33.59472	20139
2300	4.53674	1147	4.13308	1707	29.66303	17626	33.79611	19333
2400	4.54821	1075	4.15015	1614	29.83929	16975	33.98944	18589
2500	4.55896	1012	4.16629	1529	30.00904	16370	34.17533	17900
2600	4.56908	958	4.18158	1454	30.17274	15809	34.35433	17262
2700	4.57866	910	4.19612	1382	30.33083	15286	34.52695	16669
2800	4.58776	870	4.20994	1318	30.48369	14796	34.69364	16114
2900	4.59646	833	4.22312	1258	30.63165	14339	34.85478	15597
3000	4.60479	1573	4.23570	2357	30.77504	27413	35.01075	29769
3200	4.62052	1471	4.25927	2169	31.04917	25887	35.30844	28057
3400	4.63523	1388	4.28096	2007	31.30804	24527	35.58901	26533
3600	4.64911	1322	4.30103	1867	31.55331	23305	35.85434	25173
3800	4.66233	1267	4.31970	1745	31.78636	22202	36.10607	23947
4000	4.67500	1220	4.33715	1638	32.00838	21201	36.34554	22839
4200	4.68720	1182	4.35353	1544	32.22039	20289	36.57393	21832
4400	4.69902	1148	4.36897	1460	32.42328	19453	36.79225	20914
4600	4.71050	1119	4.38357	1385	32.61781	18686	37.00139	20071
4800	4.72169	1095	4.39742	1319	32.80467	17978	37.20210	19297
5000	4.73264		4.41061		32.98445		37.39507	

Table 2.111. TI

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
50	3.50079	11	3.47915	362	16.19747	63467	19.67663	63828
60	3.50090	12	3.48277	260	16.83214	53707	20.31491	53968
70	3.50102	13	3.48537	196	17.36921	46554	20.85459	46750
80	3.50115	14	3.48733	155	17.83475	41084	21.32209	41239
90	3.50129	13	3.48888	124	18.24559	36766	21.73448	36890
100	3.50142	15	3.49012	104	18.61325	33270	22.10338	33373
110	3.50157	16	3.49116	87	18.94595	30381	22.43711	30468
120	3.50173	20	3.49203	75	19.24976	27954	22.74179	28030
130	3.50193	28	3.49278	67	19.52930	25887	23.02209	25953
140	3.50221	42	3.49345	60	19.78817	24104	23.28162	24164
150	3.50263	63	3.49405	55	20.02921	22552	23.52326	22607
160	3.50326	93	3.49460	54	20.25473	21187	23.74933	21241
170	3.50419	133	3.49514	53	20.46660	19978	23.96174	20032
180	3.50552	183	3.49567	57	20.66638	18903	24.16206	18960
190	3.50735	242	3.49624	61	20.85541	17935	24.35166	17996
200	3.50977	309	3.49685	69	21.03476	17063	24.53162	17131
210	3.51286	385	3.49754	78	21.20539	16272	24.70293	16351
220	3.51671	466	3.49832	90	21.36811	15553	24.86644	15642
230	3.52137	549	3.49922	103	21.52364	14895	25.02286	14998
240	3.52686	636	3.50025	119	21.67259	14291	25.17284	14410
250	3.53322	722	3.50144	136	21.81550	13735	25.31694	13872
260	3.54044	808	3.50280	154	21.95285	13223	25.45566	13376
270	3.54852	889	3.50434	173	22.08508	12747	25.58942	12921
280	3.55741	968	3.50607	194	22.21255	12307	25.71863	12500
290	3.56709	1042	3.50801	214	22.33562	11896	25.84363	12111
300	3.57751	1109	3.51015	235	22.45458	11514	25.96474	11748
310	3.58860	1173	3.51250	256	22.56972	11155	26.08222	11412
320	3.60033	1228	3.51506	277	22.68127	10821	26.19634	11097
330	3.61261	1278	3.51783	297	22.78948	10506	26.30731	10804
340	3.62539	1321	3.52080	318	22.89454	10211	26.41535	10528
350	3.63860	1359	3.52398	337	22.99665	9932	26.52063	10269
360	3.65219	1390	3.52735	356	23.09597	9669	26.62332	10026
370	3.66609	1416	3.53091	374	23.19266	9421	26.72358	9795
380	3.68025	1436	3.53465	392	23.28687	9187	26.82153	9579
390	3.69461	1451	3.53857	408	23.37874	8964	26.91732	9372
400	3.70912	7327	3.54265	2257	23.46838	41853	27.01104	44110
450	3.78239	7147	3.56522	2532	23.88691	37693	27.45214	40224
500	3.85386	6706	3.59054	2702	24.26384	34347	27.85438	37050
550	3.92092	6145	3.61756	2789	24.60731	31596	28.22488	34384
600	3.98237	5554	3.64545	2809	24.92327	29290	28.56872	32100
650	4.03791	4979	3.67354	2783	25.21617	27326	28.88972	30109
700	4.08770	4446	3.70137	2727	25.48943	25631	29.19081	28357
750	4.13216	3967	3.72864	2648	25.74574	24149	29.47438	26798
800	4.17183	3539	3.75512	2558	25.98723	22842	29.74236	25399
850	4.20722	3165	3.78070	2459	26.21565	21680	29.99635	24140
900	4.23887	2837	3.80529	2358	26.43245	20638	30.23775	22995
950	4.26724	2550	3.82887	2256	26.63883	19698	30.46770	21954
1000	4.29274	2301	3.85143	2158	26.83581	18843	30.68724	21001
1050	4.31575	2083	3.87301	2060	27.02424	18066	30.89725	20126
1100	4.33658	1893	3.89361	1968	27.20490	17351	31.09851	19320
1150	4.35551	1727	3.91329	1879	27.37841	16695	31.29171	18574

Table 2.111. TI (Cont.)

$^{\circ}\text{K}$	$\frac{C_p^{\circ}}{R}$		$\frac{(H^{\circ} - E_0^{\circ})}{RT}$		$\frac{-(F^{\circ} - E_0^{\circ})}{RT}$		$\frac{S^{\circ}}{R}$	
1200	4.37278	3034	3.93208	3510	27.54536	31614	31.47745	35124
1300	4.40312	2580	3.96718	3208	27.86150	29519	31.82869	32727
1400	4.42892	2225	3.99926	2941	28.15669	27694	32.15596	30634
1500	4.45117	1943	4.02867	2702	28.43363	26088	32.46230	28791
1600	4.47060	1719	4.05569	2493	28.69451	24663	32.75021	27155
1700	4.48779	1537	4.08062	2305	28.94114	23391	33.02176	25696
1800	4.50316	1390	4.10367	2140	29.17505	22245	33.27872	24385
1900	4.51706	1267	4.12507	1992	29.39750	21210	33.52257	23203
2000	4.52973	1166	4.14499	1860	29.60960	20269	33.75460	22129
2100	4.54139	1081	4.16359	1742	29.81229	19410	33.97589	21152
2200	4.55220	1010	4.18101	1636	30.00639	18622	34.18741	20258
2300	4.56230	950	4.19737	1541	30.19261	17896	34.38999	19437
2400	4.57180	897	4.21278	1454	30.37157	17228	34.58436	18681
2500	4.58077	853	4.22732	1376	30.54385	16607	34.77117	17983
2600	4.58930	815	4.24108	1305	30.70992	16030	34.95100	17336
2700	4.59745	780	4.25413	1240	30.87022	15494	35.12436	16734
2800	4.60525	752	4.26653	1181	31.02516	14993	35.29170	16173
2900	4.61277	725	4.27834	1127	31.17509	14523	35.45343	15651
3000	4.62002	1385	4.28961	2109	31.32032	27753	35.60994	29861
3200	4.63387	1313	4.31070	1940	31.59785	26192	35.90855	28133
3400	4.64700	1254	4.33010	1795	31.85977	24802	36.18988	26597
3600	4.65954	1207	4.34805	1672	32.10779	23554	36.45585	25225
3800	4.67161	1167	4.36477	1563	32.34333	22429	36.70810	23992
4000	4.68328	1133	4.38040	1470	32.56762	21408	36.94802	22878
4200	4.69461	1106	4.39510	1386	32.78170	20478	37.17680	21865
4400	4.70567	1080	4.40896	1314	32.98648	19628	37.39545	20941
4600	4.71647	1060	4.42210	1249	33.18276	18847	37.60486	20096
4800	4.72707	1041	4.43459	1190	33.37123	18127	37.80582	19318
5000	4.73748		4.44649		33.55250		37.99900	

Table 3. 01

T°K	$F_{H_2}^\circ - F_{HD}^\circ$	$F_{H_2}^\circ - F_{HT}^\circ$	$F_{H_2}^\circ - F_{D_2}^\circ$	$H_{H_2}^\circ - H_{HD}^\circ$	$H_{H_2}^\circ - H_{HT}^\circ$	$H_{H_2}^\circ - H_{D_2}^\circ$
	RT	RT	RT	RT	RT	RT
100	5.79042	7.78968	10.77864	4.61516	6.06693	9.49540
200	3.59845	4.87156	6.15853	2.06881	2.79521	4.48956
300	2.91965	3.95061	4.67288	1.34104	1.82541	2.95474
400	2.58535	3.49521	3.93536	1.00130	1.36456	2.21160
500	2.38515	3.22237	3.49319	.80055	1.09097	1.76770
600	2.25142	3.04029	3.19851	.66611	.90750	1.46900
700	2.15638	2.91084	2.98916	.56914	.77484	1.25182
800	2.08542	2.81429	2.83337	.49492	.67305	1.08445
900	2.03068	2.73989	2.71366	.43561	.59155	.95017
1000	1.98739	2.68115	2.61946	.38673	.52433	.83941
1100	1.95252	2.63391	2.54395	.34558	.46771	.74631
1200	1.92399	2.59533	2.48249	.31038	.41931	.66703
1300	1.90038	2.56347	2.43187	.27998	.37755	.59890
1400	1.88061	2.53684	2.38969	.25349	.34122	.53994
1500	1.86395	2.51442	2.35423	.23030	.30946	.48861
2000	1.80999	2.44218	2.24056	.14892	.19842	.31144
2500	1.78222	2.40532	2.18270	.10228	.13515	.21233
3000	1.76628	2.38436	2.14969	.07367	.09643	.15253
4000	1.74995	2.36319	2.11582	.04241	.05414	.08828
5000	1.74234	2.35363	2.09986	.02682	.03294	.05688

T°K	$C_{HD}^\circ - C_{H_2}^\circ$	$C_{HT}^\circ - C_{H_2}^\circ$	$C_{D_2}^\circ - C_{H_2}^\circ$	$S_{HD}^\circ - S_{H_2}^\circ$	$S_{HT}^\circ - S_{H_2}^\circ$	$S_{D_2}^\circ - S_{H_2}^\circ$
	R	R	R	R	R	R
100	.79980	.79786	.90627	1.17527	1.72275	1.28324
200	.22975	.22924	.23279	1.52964	2.07636	1.66897
300	.04201	.04184	.04200	1.57862	2.12521	1.71814
400	.00500	.00527	.00681	1.58406	2.13065	1.72377
500	.00221	.00415	.01270	1.58461	2.13140	1.72550
600	.00778	.01361	.03537	1.58530	2.13278	1.72950
700	.01811	.02968	.06851	1.58723	2.13599	1.73734
800	.03159	.04983	.10586	1.59051	2.14125	1.74892
900	.04614	.07083	.14165	1.59507	2.14834	1.76350
1000	.05992	.09016	.17222	1.60066	2.15683	1.78006
1100	.07180	.10637	.19600	1.60695	2.16621	1.79765
1200	.08125	.11891	.21286	1.61361	2.17602	1.81547
1300	.08820	.12784	.22349	1.62041	2.18592	1.83297
1400	.09288	.13356	.22893	1.62713	2.19562	1.84976
1500	.09559	.13659	.23024	1.63364	2.20495	1.86561
2000	.09134	.12825	.20408	1.66108	2.24377	1.92913
2500	.07669	.10724	.16426	1.67993	2.27017	1.97037
3000	.06249	.08768	.12995	1.69262	2.28794	1.99717
4000	.04207	.06036	.08335	1.70755	2.30906	2.02754
5000	.02996	.04465	.05637	1.71552	2.32068	2.04298

Table 3.02

T°K	$F_{H_2}^\circ - F_{DT}^\circ$	$F_{H_2}^\circ - F_{T_2}^\circ$	$F_{HD}^\circ - F_{HT}^\circ$	$H_{H_2}^\circ - H_{DT}^\circ$	$H_{H_2}^\circ - H_{T_2}^\circ$	$H_{HD}^\circ - H_{HT}^\circ$
	RT	RT	RT	RT	RT	RT
100	13.83299	15.71828	1.99876	11.30817	13.38651	1.45127
200	8.29362	9.13666	1.27286	5.41710	6.46041	.72615
300	6.49864	6.99405	1.03079	3.57362	4.26921	.48420
400	5.60620	5.92778	.90974	2.67538	3.19639	.36314
500	5.07138	5.28898	.83712	2.13756	2.55197	.29032
600	4.71526	4.86418	.78879	1.77463	2.11544	.24131
700	4.46254	4.56323	.75439	1.50981	1.79568	.20563
800	4.27483	4.34026	.72881	1.30523	1.54819	.17807
900	4.13091	4.16978	.70915	1.14095	1.34946	.15588
1000	4.01793	4.03633	.69371	1.00551	1.18593	.13755
1100	3.92758	3.92991	.68134	.89187	1.04910	.12208
1200	3.85422	3.84372	.67130	.79533	.93326	.10889
1300	3.79391	3.77303	.66306	.71257	.83431	.09754
1400	3.74377	3.71439	.65619	.64114	.74922	.08769
1500	3.70171	3.66528	.65044	.57915	.67560	.07913
2000	3.56743	3.50910	.63217	.36645	.42491	.04948
2500	3.49953	3.43048	.62308	.24845	.28723	.03285
3000	3.46100	3.38596	.61806	.17758	.20507	.02274
4000	3.42175	3.34063	.61323	.10163	.11753	.01172
5000	3.40350	3.31948	.61128	.06449	.07499	.00611

T°K	$C_{DT}^\circ - C_{H_2}^\circ$	$C_{T_2}^\circ - C_{H_2}^\circ$	$C_{HT}^\circ - C_{HD}^\circ$	$S_{DT}^\circ - S_{H_2}^\circ$	$S_{T_2}^\circ - S_{H_2}^\circ$	$S_{HT}^\circ - S_{HD}^\circ$
	R	R	R	R	R	R
100	.79296	.74531	-.00194	2.52483	2.33177	.54748
200	.22793	.22781	-.00051	2.87653	2.67625	.54672
300	.04157	.04214	-.00017	2.92503	2.72485	.54659
400	.00939	.01552	.00027	2.93082	2.73139	.54659
500	.02265	.04164	.00194	2.93382	2.73701	.54679
600	.05689	.09255	.00583	2.94063	2.74874	.54748
700	.10254	.15376	.01157	2.95273	2.76755	.54876
800	.15081	.21377	.01824	2.96960	2.79207	.55074
900	.19475	.26511	.02469	2.98997	2.82032	.55327
1000	.23056	.30457	.03024	3.01242	2.85040	.55617
1100	.25709	.33191	.03457	3.03571	2.88081	.55926
1200	.27480	.34847	.03766	3.05890	2.91047	.56241
1300	.28490	.35615	.03964	3.08134	2.93872	.56551
1400	.28887	.35696	.04068	3.10263	2.96518	.56849
1500	.28811	.35265	.04100	3.12256	2.98968	.57131
2000	.24920	.29611	.03691	3.20099	3.08420	.58269
2500	.19863	.23238	.03055	3.25108	3.14325	.59024
3000	.15670	.18147	.02519	3.28343	3.18090	.59532
4000	.10118	.11536	.01829	3.32013	3.22310	.60151
5000	.06970	.07825	.01469	3.33900	3.24448	.60516

Table 3. 03

T°K	$F_{HD}^{\circ}-F_{D_2}^{\circ}$	$F_{HD}^{\circ}-F_{DT}^{\circ}$	$F_{HD}^{\circ}-F_{T_2}^{\circ}$	$H_{HD}^{\circ}-H_{D_2}^{\circ}$	$H_{HD}^{\circ}-H_{DT}^{\circ}$	$H_{HD}^{\circ}-H_{T_2}^{\circ}$
	RT	RT	RT	RT	RT	RT
100	4.98822	8.04207	9.92836	4.88024	6.69251	8.77185
200	2.56008	4.69492	5.53846	2.42075	3.34804	4.39185
300	1.75323	3.57882	4.07457	1.61370	2.23241	2.92834
400	1.35001	3.02073	3.34256	1.21030	1.67396	2.19522
500	1.10804	2.68613	2.90393	.96715	1.33691	1.75152
600	.94709	2.46376	2.61284	.80289	1.10844	1.44941
700	.83278	2.30609	2.40693	.68268	.94060	1.22662
800	.74796	2.18935	2.25490	.58954	.81025	1.05333
900	.68298	2.10017	2.13916	.51456	.70528	.91391
1000	.63207	2.03049	2.04899	.45268	.61873	.79925
1100	.59144	1.97502	1.97744	.40074	.54625	.70357
1200	.55851	1.93019	1.91978	.35666	.48491	.62293
1300	.53150	1.89349	1.87270	.31893	.43255	.55438
1400	.50907	1.86313	1.83381	.28644	.38762	.49576
1500	.49028	1.83773	1.80136	.25831	.34882	.44533
2000	.43057	1.75742	1.69914	.16252	.21751	.27602
2500	.40048	1.71729	1.64828	.11005	.14615	.18497
3000	.38341	1.69470	1.61970	.07886	.10389	.13142
4000	.36588	1.67179	1.59069	.04588	.05921	.07513
5000	.35752	1.66115	1.57715	.03006	.03766	.04818

T°K	$C_{D_2}^{\circ}-C_{HD}^{\circ}$	$C_{DT}^{\circ}-C_{HD}^{\circ}$	$C_{T_2}^{\circ}-C_{HD}^{\circ}$	$S_{D_2}^{\circ}-S_{HD}^{\circ}$	$S_{DT}^{\circ}-S_{HD}^{\circ}$	$S_{T_2}^{\circ}-S_{HD}^{\circ}$
	R	R	R	R	R	R
100	.10647	— .00684	— .05449	.10797	1.34956	1.15650
200	.00304	— .00182	— .00194	.13933	1.34689	1.14661
300	— .00001	— .00044	.00013	.13952	1.34641	1.14623
400	.00181	.00439	.01052	.13971	1.34676	1.14733
500	.01049	.02044	.03943	.14089	1.34921	1.15240
600	.02759	.04911	.08477	.14420	1.35533	1.16344
700	.05040	.08443	.13565	.15011	1.36550	1.18032
800	.07427	.11922	.18218	.15841	1.37909	1.20156
900	.09551	.14861	.21897	.16843	1.39490	1.22525
1000	.11230	.17064	.24465	.17940	1.41176	1.24974
1100	.12420	.18529	.26011	.19070	1.42876	1.27386
1200	.13161	.19355	.26722	.20186	1.44529	1.29686
1300	.13529	.19670	.26795	.21256	1.46093	1.31831
1400	.13605	.19599	.26408	.22263	1.47550	1.33805
1500	.13465	.19252	.25706	.23197	1.48892	1.35604
2000	.11274	.15786	.20477	.26805	1.53991	1.42312
2500	.08757	.12194	.15569	.29044	1.57115	1.46332
3000	.06746	.09421	.11898	.30455	1.59081	1.48828
4000	.04128	.05911	.07329	.31999	1.61258	1.51555
5000	.02641	.03974	.04829	.32746	1.62348	1.52896

Table 3. 04

T°K	$F_{HT}^{\circ} - F_{D_2}^{\circ}$	$F_{HT}^{\circ} - F_{DT}^{\circ}$	$F_{HT}^{\circ} - F_{T_2}^{\circ}$	$H_{HT}^{\circ} - H_{D_2}^{\circ}$	$H_{HT}^{\circ} - H_{DT}^{\circ}$	$H_{HT}^{\circ} - H_{T_2}^{\circ}$
	RT	RT	RT	RT	RT	RT
100	2.98926	6.04331	7.92860	3.42877	5.24124	7.31958
200	1.28712	3.42206	4.26510	1.69450	2.62189	3.66520
300	.72237	2.54802	3.04344	1.12943	1.74820	2.44380
400	.44022	2.11099	2.43257	.84711	1.31082	1.83183
500	.27088	1.84901	2.06661	.67679	1.04659	1.46100
600	.15827	1.67498	1.82389	.56155	.86714	1.20794
700	.07836	1.55170	1.65239	.47702	.73497	1.02084
800	.01913	1.46055	1.52597	.41145	.63219	.87514
900	-.02619	1.39102	1.42989	.35866	.54940	.75791
1000	-.06166	1.33678	1.35518	.31511	.48118	.66160
1100	-.08993	1.29367	1.29600	.27863	.42416	.58139
1200	-.11281	1.25888	1.24839	.24775	.37601	.51395
1300	-.13158	1.23044	1.20956	.22137	.33502	.45676
1400	-.14713	1.20694	1.17755	.19874	.29993	.40800
1500	-.16017	1.18730	1.15086	.17917	.26970	.36614
2000	-.20161	1.12525	1.06692	.11303	.16803	.22649
2500	-.22261	1.09421	1.02516	.07719	.11330	.15208
3000	-.23466	1.07663	1.00160	.05611	.08114	.10864
4000	-.24735	1.05857	.97744	.03416	.04750	.06339
5000	-.25376	1.04987	.96585	.02395	.03155	.04205

T°K	$C_{D_2}^{\circ} - C_{HT}^{\circ}$	$C_{DT}^{\circ} - C_{HT}^{\circ}$	$C_{T_2}^{\circ} - C_{HT}^{\circ}$	$S_{D_2}^{\circ} - S_{HT}^{\circ}$	$S_{DT}^{\circ} - S_{HT}^{\circ}$	$S_{T_2}^{\circ} - S_{HT}^{\circ}$
	R	R	R	R	R	R
100	.10841	-.00490	-.05255	-.43951	.80208	.60902
200	.00355	-.00131	-.00143	-.40739	.80017	.59989
300	.00016	-.00027	.00030	-.40707	.79982	.59964
400	.00154	.00412	.01025	-.40688	.80017	.60074
500	.00855	.01850	.03749	-.40590	.80242	.60561
600	.02176	.04328	.07894	-.40328	.80785	.61596
700	.03883	.07286	.12408	-.39865	.81674	.63156
800	.05603	.10098	.16394	-.39233	.82835	.65082
900	.07082	.12392	.19428	-.38484	.84163	.67198
1000	.08206	.14040	.21441	-.37677	.85559	.69357
1100	.08963	.15072	.22554	-.36856	.86950	.71460
1200	.09395	.15589	.22956	-.36055	.88288	.73445
1300	.09565	.15706	.22831	-.35295	.89542	.75280
1400	.09537	.15531	.22340	-.34586	.90701	.76956
1500	.09365	.15152	.21606	-.33934	.91761	.78473
2000	.07583	.12095	.16786	-.31464	.95722	.84043
2500	.05702	.09139	.12514	-.29980	.98091	.87308
3000	.04227	.06902	.09379	-.29077	.99549	.89296
4000	.02299	.04082	.05500	-.28152	1.01107	.91404
5000	.01172	.02505	.03360	-.27770	1.01832	.92380

Table 3.05

T°K	$F_{D_2}^\circ - F_{DT}^\circ$	$F_{D_2}^\circ - F_{T_2}^\circ$	$F_{DT}^\circ - F_{T_2}^\circ$	$H_{D_2}^\circ - H_{DT}^\circ$	$H_{D_2}^\circ - H_{T_2}^\circ$	$H_{DT}^\circ - H_{T_2}^\circ$
	RT	RT	RT	RT	RT	RT
100	3.05405	4.94034	1.88629	1.81247	3.89181	2.07934
200	2.13494	2.97848	.84354	.92739	1.97120	1.04381
300	1.82566	2.32141	.49575	.61878	1.31471	.69593
400	1.67077	1.99260	.32183	.46371	.98497	.52126
500	1.57813	1.79593	.21780	.36980	.78441	.41461
600	1.51670	1.66578	.14908	.30558	.64655	.34097
700	1.47334	1.57418	.10083	.25795	.54397	.28601
800	1.44142	1.50697	.06555	.22074	.46382	.24308
900	1.41721	1.45620	.03899	.19074	.39937	.20863
1000	1.39844	1.41694	.01850	.16607	.34659	.18052
1100	1.38360	1.38602	.00242	.14553	.30285	.15732
1200	1.37170	1.36129	-.01041	.12827	.26629	.13802
1300	1.36202	1.34122	-.02080	.11365	.23547	.12182
1400	1.35407	1.32475	-.02931	.10119	.20933	.10815
1500	1.34746	1.31109	-.03637	.09052	.18703	.09651
2000	1.32686	1.26858	-.05828	.05500	.11351	.05851
2500	1.31682	1.24781	-.06901	.03611	.07493	.03882
3000	1.31130	1.23630	-.07500	.02504	.05257	.02753
4000	1.30592	1.22482	-.08110	.01334	.02926	.01592
5000	1.30363	1.21963	-.08400	.00760	.01812	.01052

T°K	$C_{DT}^\circ - C_{D_2}^\circ$	$C_{T_2}^\circ - C_{D_2}^\circ$	$C_{T_2}^\circ - C_{DT}^\circ$	$S_{DT}^\circ - S_{D_2}^\circ$	$S_{T_2}^\circ - S_{D_2}^\circ$	$S_{T_2}^\circ - S_{DT}^\circ$
	R	R	R	R	R	R
100	-.11331	-.16096	-.04765	1.24159	1.04853	-.19306
200	-.00486	-.00498	-.00012	1.20756	1.00728	-.20028
300	-.00043	.00014	.00057	1.20689	1.00671	-.20018
400	.00258	.00871	.00613	1.20705	1.00762	-.19943
500	.00995	.02894	.01899	1.20832	1.01151	-.19681
600	.02152	.05718	.03566	1.21113	1.01924	-.19189
700	.03403	.08525	.05122	1.21539	1.03021	-.18518
800	.04495	.10791	.06296	1.22068	1.04315	-.17753
900	.05310	.12346	.07036	1.22647	1.05682	-.16965
1000	.05834	.13235	.07401	1.23236	1.07034	-.16202
1100	.06109	.13591	.07482	1.23806	1.08316	-.15490
1200	.06194	.13561	.07367	1.24343	1.09500	-.14843
1300	.06141	.13266	.07125	1.24837	1.10575	-.14262
1400	.05994	.12803	.06809	1.25287	1.11542	-.13745
1500	.05787	.12241	.06454	1.25695	1.12407	-.13288
2000	.04512	.09203	.04691	1.27186	1.15507	-.11679
2500	.03437	.06812	.03375	1.28071	1.17288	-.10783
3000	.02675	.05152	.02477	1.28626	1.18373	-.10253
4000	.01783	.03201	.01418	1.29259	1.19556	-.09703
5000	.01333	.02188	.00855	1.29602	1.20150	-.09452

Table 3. 06

T°K	$\frac{F^\circ_{\text{LiH}} - F^\circ_{\text{LiD}}}{\text{RT}}$	$\frac{F^\circ_{\text{LiH}} - F^\circ_{\text{LiT}}}{\text{RT}}$	$\frac{F^\circ_{\text{LiD}} - F^\circ_{\text{LiT}}}{\text{RT}}$	$\frac{H^\circ_{\text{LiH}} - H^\circ_{\text{LiD}}}{\text{RT}}$	$\frac{H^\circ_{\text{LiH}} - H^\circ_{\text{LiT}}}{\text{RT}}$	$\frac{H^\circ_{\text{LiD}} - H^\circ_{\text{LiT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.21888	4.69901	1.48013	2.46978	3.49375	1.02397
200	1.98453	2.95372	.96919	1.23089	1.73663	.50574
300	1.57819	2.38268	.80450	.79660	1.11243	.31584
400	1.38435	2.11343	.72908	.55944	.77217	.21273
500	1.27675	1.96559	.68884	.40992	.56050	.15058
600	1.21141	1.87655	.66513	.31016	.42117	.11100
700	1.16910	1.81924	.65014	.24112	.32576	.08464
800	1.14030	1.78040	.64010	.19185	.25821	.06636
900	1.11990	1.75297	.63308	.15573	.20899	.05327
1000	1.10495	1.73294	.62799	.12858	.17218	.04360
1100	1.09372	1.71791	.62419	.10776	.14404	.03628
1200	1.08506	1.70635	.62130	.09148	.12211	.03064
1300	1.07827	1.69729	.61902	.07852	.10471	.02619
1400	1.07285	1.69006	.61721	.06809	.09072	.02263
1500	1.06845	1.68422	.61576	.05955	.07930	.01974
2000	1.05536	1.66679	.61143	.03375	.04493	.01118
2500	1.04929	1.65869	.60941	.02159	.02883	.00725
3000	1.04600	1.65427	.60828	.01496	.02014	.00519
4000	1.04273	1.64983	.60710	.00846	.01171	.00325
5000	1.04119	1.64766	.60647	.00553	.00801	.00248

T°K	$\frac{C^\circ_{\text{LiD}} - C^\circ_{\text{LiH}}}{\text{R}}$	$\frac{C^\circ_{\text{LiT}} - C^\circ_{\text{LiH}}}{\text{R}}$	$\frac{C^\circ_{\text{LiT}} - C^\circ_{\text{LiD}}}{\text{R}}$	$\frac{S^\circ_{\text{LiD}} - S^\circ_{\text{LiH}}}{\text{R}}$	$\frac{S^\circ_{\text{LiT}} - S^\circ_{\text{LiH}}}{\text{R}}$	$\frac{S^\circ_{\text{LiT}} - S^\circ_{\text{LiD}}}{\text{R}}$
	R	R	R	R	R	R
100	-.00011	.00023	.00034	.74910	1.20525	.45615
200	.02862	.06416	.03554	.75364	1.21708	.46344
300	.11750	.20448	.08698	.78159	1.27024	.48865
400	.17788	.27866	.10078	.82491	1.34126	.51635
500	.19246	.28580	.09334	.86683	1.40508	.53825
600	.18231	.26249	.08018	.90126	1.45538	.55412
700	.16328	.23054	.06726	.92798	1.49348	.56550
800	.14290	.19911	.05621	.94845	1.52219	.57374
900	.12408	.17125	.04717	.96417	1.54399	.57982
1000	.10766	.14754	.03988	.97637	1.56077	.58440
1100	.09370	.12768	.03398	.98596	1.57387	.58791
1200	.08191	.11110	.02919	.99359	1.58424	.59065
1300	.07199	.09726	.02527	.99974	1.59257	.59283
1400	.06362	.08565	.02203	1.00476	1.59935	.59459
1500	.05651	.07584	.01933	1.00890	1.60491	.59601
2000	.03355	.04435	.01080	1.02162	1.62186	.60024
2500	.02180	.02832	.00652	1.02770	1.62985	.60215
3000	.01507	.01911	.00404	1.03103	1.63413	.60310
4000	.00804	.00939	.00135	1.03427	1.63812	.60385
5000	.00462	.00456	-.00006	1.03566	1.63964	.60398

Table 3. 07

T°K	$\frac{F^\circ_{\text{NaH}} - F^\circ_{\text{NaD}}}{\text{RT}}$	$\frac{F^\circ_{\text{NaH}} - F^\circ_{\text{NaT}}}{\text{RT}}$	$\frac{F^\circ_{\text{NaD}} - F^\circ_{\text{NaT}}}{\text{RT}}$	$\frac{H^\circ_{\text{NaH}} - H^\circ_{\text{NaD}}}{\text{RT}}$	$\frac{H^\circ_{\text{NaH}} - H^\circ_{\text{NaT}}}{\text{RT}}$	$\frac{H^\circ_{\text{NaD}} - H^\circ_{\text{NaT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.00463	4.42497	1.42034	2.29610	3.29459	.99849
200	1.85892	2.78415	.92523	1.13454	1.61466	.48012
300	1.48897	2.26143	.77246	.71118	.99515	.28397
400	1.31876	2.02479	.70603	.48167	.66478	.18311
500	1.22740	1.89927	.67187	.34277	.46874	.12597
600	1.17334	1.82556	.65222	.25384	.34504	.09120
700	1.13897	1.77894	.63997	.19429	.26304	.06875
800	1.11589	1.74774	.63185	.15286	.20639	.05353
900	1.09970	1.72589	.62619	.12307	.16586	.04279
1000	1.08792	1.71003	.62211	.10101	.13597	.03496
1100	1.07911	1.69818	.61907	.08429	.11338	.02909
1200	1.07235	1.68909	.61674	.07134	.09591	.02457
1300	1.06706	1.68198	.61491	.06112	.08218	.02105
1400	1.06285	1.67631	.61346	.05294	.07118	.01824
1500	1.05943	1.67171	.61228	.04629	.06226	.01597
2000	1.04924	1.65799	.60875	.02647	.03575	.00928
2500	1.04443	1.65147	.60703	.01733	.02360	.00626
3000	1.04174	1.64779	.60605	.01247	.01717	.00470
4000	1.03888	1.64381	.60493	.00790	.01120	.00330
5000	1.03736	1.64160	.60424	.00603	.00883	.00280

T°K	$\frac{C^\circ_{\text{NaD}} - C^\circ_{\text{NaH}}}{\text{R}}$	$\frac{C^\circ_{\text{NaT}} - C^\circ_{\text{NaH}}}{\text{R}}$	$\frac{C^\circ_{\text{NaT}} - C^\circ_{\text{NaD}}}{\text{R}}$	$\frac{S^\circ_{\text{NaD}} - S^\circ_{\text{NaH}}}{\text{R}}$	$\frac{S^\circ_{\text{NaT}} - S^\circ_{\text{NaH}}}{\text{R}}$	$\frac{S^\circ_{\text{NaT}} - S^\circ_{\text{NaD}}}{\text{R}}$
	R	R	R	R	R	R
100	.00088	.00470	.00382	.70853	1.13038	.42185
200	.07557	.15728	.08171	.72437	1.16948	.44511
300	.18487	.30708	.12221	.77779	1.26627	.48848
400	.21740	.33011	.11271	.83709	1.36002	.52293
500	.20396	.29625	.09229	.88463	1.43054	.54591
600	.17690	.25053	.07363	.91950	1.48052	.56102
700	.14945	.20833	.05888	.94467	1.51589	.57122
800	.12556	.17317	.04761	.96303	1.54134	.57831
900	.10579	.14479	.03900	.97663	1.56002	.58339
1000	.08970	.12205	.03235	.98692	1.57407	.58715
1100	.07663	.10378	.02715	.99483	1.58481	.58998
1200	.06596	.08898	.02302	1.00102	1.59318	.59216
1300	.05718	.07687	.01969	1.00595	1.59981	.59386
1400	.04991	.06688	.01697	1.00991	1.60513	.59522
1500	.04383	.05856	.01473	1.01313	1.60945	.59632
2000	.02459	.03232	.00773	1.02277	1.62223	.59946
2500	.01486	.01910	.00424	1.02709	1.62787	.60078
3000	.00923	.01141	.00218	1.02927	1.63062	.60135
4000	.00316	.00304	— .00012	1.03098	1.63260	.60162
5000	— .00001	— .00141	— .00140	1.03132	1.63276	.60144

Table 3.08

T°K	$\frac{F^\circ_{KH} - F^\circ_{KD}}{RT}$	$\frac{F^\circ_{KH} - F^\circ_{KT}}{RT}$	$\frac{F^\circ_{KD} - F^\circ_{KT}}{RT}$	$\frac{H^\circ_{KH} - H^\circ_{KD}}{RT}$	$\frac{H^\circ_{KH} - H^\circ_{KT}}{RT}$	$\frac{H^\circ_{KD} - H^\circ_{KT}}{RT}$
100	2.72408	4.00548	1.28140	1.97273	2.83802	.86529
200	1.74347	2.60060	.85713	.95843	1.35848	.40005
300	1.43592	2.16850	.73258	.57809	.80341	.22532
400	1.29973	1.98040	.68068	.37838	.51915	.14078
500	1.22883	1.88348	.65465	.26261	.35764	.09503
600	1.18777	1.82768	.63991	.19090	.25890	.06800
700	1.16210	1.79292	.63082	.14398	.19487	.05089
800	1.14511	1.76992	.62481	.11183	.15126	.03943
900	1.13334	1.75399	.62065	.08893	.12035	.03142
1000	1.12487	1.74254	.61767	.07208	.09769	.02561
1100	1.11863	1.73406	.61544	.05933	.08060	.02128
1200	1.11391	1.72765	.61373	.04945	.06742	.01796
1300	1.11027	1.72267	.61240	.04164	.05702	.01538
1400	1.10743	1.71876	.61133	.03537	.04870	.01333
1500	1.10516	1.71563	.61047	.03024	.04191	.01167
2000	1.09892	1.70680	.60789	.01456	.02138	.00683
2500	1.09658	1.70321	.60663	.00677	.01141	.00464
3000	1.09579	1.70168	.60589	.00214	.00567	.00353
4000	1.09601	1.70104	.60503	-.00326	-.00072	.00254
5000	1.09711	1.70162	.60451	-.00657	-.00436	.00221

T°K	$\frac{C^\circ_{KD} - C^\circ_{KH}}{R}$	$\frac{C^\circ_{KT} - C^\circ_{KH}}{R}$	$\frac{C^\circ_{KT} - C^\circ_{KD}}{R}$	$\frac{S^\circ_{KD} - S^\circ_{KH}}{R}$	$\frac{S^\circ_{KT} - S^\circ_{KH}}{R}$	$\frac{S^\circ_{KT} - S^\circ_{KD}}{R}$
100	.00461	.01779	.01318	.75135	1.16746	.41611
200	.12755	.23936	.11181	.78505	1.24213	.45708
300	.21725	.34133	.12408	.85782	1.36508	.50726
400	.21520	.31543	.10023	.92136	1.46126	.53990
500	.18418	.26074	.07656	.96622	1.52584	.55962
600	.15164	.21030	.05866	.99687	1.56878	.57191
700	.12441	.17013	.04572	1.01812	1.59805	.57993
800	.10297	.13929	.03632	1.03328	1.61866	.58538
900	.08634	.11572	.02938	1.04440	1.63364	.58924
1000	.07343	.09757	.02414	1.05280	1.64485	.59205
1100	.06331	.08341	.02010	1.05931	1.65346	.59415
1200	.05531	.07224	.01693	1.06446	1.66023	.59577
1300	.04892	.06333	.01441	1.06862	1.66564	.59702
1400	.04377	.05613	.01236	1.07205	1.67006	.59801
1500	.03957	.05025	.01068	1.07493	1.67373	.59880
2000	.02729	.03277	.00548	1.08437	1.68543	.60106
2500	.02220	.02509	.00289	1.08982	1.69180	.60198
3000	.02007	.02144	.00137	1.09365	1.69601	.60236
4000	.01935	.01901	-.00034	1.09926	1.70175	.60249
5000	.02040	.01909	-.00131	1.10367	1.70597	.60230

Table 3. 09

T°K	$\frac{F^\circ}{\text{RbH}} - \frac{F^\circ}{\text{RbD}}$	$\frac{F^\circ}{\text{RbH}} - \frac{F^\circ}{\text{RbT}}$	$\frac{F^\circ}{\text{RbD}} - \frac{F^\circ}{\text{RbT}}$	$\frac{H^\circ}{\text{RbH}} - \frac{H^\circ}{\text{RbD}}$	$\frac{H^\circ}{\text{RbH}} - \frac{H^\circ}{\text{RbT}}$	$\frac{H^\circ}{\text{RbD}} - \frac{H^\circ}{\text{RbT}}$
	RT	RT	RT	RT	RT	RT
100	2.60633	3.85872	1.25239	1.91106	2.75188	.84082
200	1.65823	2.50056	.84233	.92139	1.30358	.38219
300	1.36420	2.08843	.72422	.54867	.76049	.21181
400	1.23551	1.91114	.67563	.35592	.48708	.13116
500	1.16897	1.82042	.65145	.24586	.33401	.08815
600	1.13057	1.76836	.63780	.17850	.24148	.06299
700	1.10656	1.73592	.62936	.13482	.18198	.04716
800	1.09062	1.71441	.62379	.10512	.14175	.03663
900	1.07951	1.69944	.61993	.08411	.11341	.02930
1000	1.07149	1.68862	.61713	.06877	.09279	.02402
1100	1.06550	1.68053	.61503	.05726	.07735	.02009
1200	1.06092	1.67433	.61341	.04840	.06552	.01712
1300	1.05732	1.66946	.61214	.04148	.05629	.01481
1400	1.05446	1.66558	.61111	.03595	.04895	.01299
1500	1.05214	1.66239	.61026	.03150	.04303	.01154
2000	1.04516	1.65276	.60760	.01835	.02576	.00741
2500	1.04178	1.64794	.60616	.01243	.01813	.00570
3000	1.03980	1.64500	.60519	.00937	.01434	.00496
4000	1.03755	1.64140	.60385	.00665	.01124	.00459
5000	1.03619	1.63899	.60281	.00570	.01046	.00477

T°K	$\frac{C^\circ}{\text{RbD}} - \frac{C^\circ}{\text{RbH}}$	$\frac{C^\circ}{\text{RbT}} - \frac{C^\circ}{\text{RbH}}$	$\frac{C^\circ}{\text{RbT}} - \frac{C^\circ}{\text{RbD}}$	$\frac{S^\circ}{\text{RbD}} - \frac{S^\circ}{\text{RbH}}$	$\frac{S^\circ}{\text{RbT}} - \frac{S^\circ}{\text{RbH}}$	$\frac{S^\circ}{\text{RbT}} - \frac{S^\circ}{\text{RbD}}$
	R	R	R	R	R	R
100	.00714	.02604	.01890	.69528	1.10685	.41157
200	.14619	.26823	.12204	.73685	1.19699	.46014
300	.22487	.34922	.12435	.81552	1.32793	.51241
400	.21192	.30859	.09667	.87959	1.42407	.54448
500	.17595	.24818	.07223	.92311	1.48640	.56329
600	.14166	.19613	.05447	.95207	1.52687	.57480
700	.11398	.15585	.04187	.97174	1.55394	.58220
800	.09254	.12535	.03281	.98550	1.57266	.58716
900	.07601	.10215	.02614	.99541	1.58603	.59062
1000	.06318	.08429	.02111	1.00272	1.59583	.59311
1100	.05309	.07031	.01722	1.00825	1.60318	.59493
1200	.04505	.05920	.01415	1.01251	1.60880	.59629
1300	.03855	.05024	.01169	1.01585	1.61318	.59733
1400	.03323	.04291	.00968	1.01850	1.61662	.59812
1500	.02884	.03684	.00800	1.02064	1.61937	.59873
2000	.01507	.01772	.00265	1.02681	1.62701	.60020
2500	.00814	.00789	— .00025	1.02935	1.62980	.60045
3000	.00405	.00192	— .00213	1.03043	1.63067	.60024
4000	— .00053	— .00512	— .00459	1.03090	1.63015	.59925
5000	— .00309	— .00937	— .00628	1.03049	1.62853	.59804

Table 3.10

T°K	$\frac{F^\circ_{\text{CsH}} - F^\circ_{\text{CsD}}}{\text{RT}}$	$\frac{F^\circ_{\text{CsH}} - F^\circ_{\text{CsT}}}{\text{RT}}$	$\frac{F^\circ_{\text{CsD}} - F^\circ_{\text{CsT}}}{\text{RT}}$	$\frac{H^\circ_{\text{CsH}} - H^\circ_{\text{CsD}}}{\text{RT}}$	$\frac{H^\circ_{\text{CsH}} - H^\circ_{\text{CsT}}}{\text{RT}}$	$\frac{H^\circ_{\text{CsD}} - H^\circ_{\text{CsT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	2.52167	3.73666	1.39109	1.82796	2.63202	.98016
200	1.61680	2.44176	.91301	.87401	1.23359	.44763
300	1.33941	2.05398	.77326	.51398	.71047	.25518
400	1.21937	1.88903	.71369	.33050	.45118	.16471
500	1.15774	1.80520	.68268	.22712	.30781	.11591
600	1.12233	1.75730	.66433	.16441	.22184	.08679
700	1.10022	1.72753	.65246	.12400	.16686	.06801
800	1.08556	1.70781	.64427	.09666	.12982	.05518
900	1.07534	1.69411	.63833	.07740	.10382	.04598
1000	1.06796	1.68420	.63385	.06336	.08492	.03917
1100	1.06243	1.67680	.63038	.05285	.07080	.03396
1200	1.05820	1.67113	.62761	.04480	.05999	.02987
1300	1.05487	1.66667	.62535	.03851	.05156	.02660
1400	1.05221	1.66311	.62348	.03352	.04487	.02393
1500	1.05004	1.66020	.62191	.02948	.03948	.02175
2000	1.04342	1.65133	.61672	.01773	.02379	.01487
2500	1.04009	1.64685	.61381	.01253	.01688	.01140
3000	1.03806	1.64412	.61192	.00995	.01348	.00939
4000	1.03554	1.64069	.60956	.00788	.01076	.00729
5000	1.03385	1.63838	.60805	.00740	.01017	.00629

T°K	$\frac{C^\circ_{\text{CsD}} - C^\circ_{\text{CsH}}}{\text{R}}$	$\frac{C^\circ_{\text{CsT}} - C^\circ_{\text{CsH}}}{\text{R}}$	$\frac{C^\circ_{\text{CsT}} - C^\circ_{\text{CsD}}}{\text{R}}$	$\frac{S^\circ_{\text{CsD}} - S^\circ_{\text{CsH}}}{\text{R}}$	$\frac{S^\circ_{\text{CsT}} - S^\circ_{\text{CsH}}}{\text{R}}$	$\frac{S^\circ_{\text{CsT}} - S^\circ_{\text{CsD}}}{\text{R}}$
	R	R	R	R	R	R
100	.01020	.03482	.02462	.69371	1.10465	.41094
200	.16140	.28899	.12759	.74278	1.20817	.46539
300	.22747	.34906	.12159	.82543	1.34351	.51808
400	.20573	.29769	.09196	.88887	1.43786	.54899
500	.16696	.23482	.06786	.93063	1.49739	.56676
600	.13249	.18340	.05091	.95791	1.53546	.57755
700	.10550	.14461	.03911	.97621	1.56066	.58445
800	.08494	.11565	.03071	.98889	1.57799	.58910
900	.06926	.09386	.02460	.99795	1.59030	.59235
1000	.05715	.07717	.02002	1.00460	1.59929	.59469
1100	.04768	.06418	.01650	1.00959	1.60601	.59642
1200	.04013	.05389	.01376	1.01339	1.61113	.59774
1300	.03403	.04560	.01157	1.01636	1.61511	.59875
1400	.02905	.03884	.00979	1.01869	1.61823	.59954
1500	.02491	.03323	.00832	1.02055	1.62072	.60017
2000	.01187	.01563	.00376	1.02569	1.62755	.60186
2500	.00513	.00655	.00142	1.02755	1.62996	.60241
3000	.00103	.00101	— .00002	1.02810	1.63064	.60254
4000	— .00386	— .00560	— .00174	1.02765	1.62992	.60227
5000	— .00685	— .00966	— .00281	1.02645	1.62820	.60175

Table 3.11

T°K	$F_{\text{BeH}}^{\circ} - F_{\text{BeD}}^{\circ}$	$F_{\text{BeH}}^{\circ} - F_{\text{BeT}}^{\circ}$	$F_{\text{BeD}}^{\circ} - F_{\text{BeT}}^{\circ}$	$H_{\text{BeH}}^{\circ} - H_{\text{BeD}}^{\circ}$	$H_{\text{BeH}}^{\circ} - H_{\text{BeT}}^{\circ}$	$H_{\text{BeD}}^{\circ} - H_{\text{BeT}}^{\circ}$
	RT	RT	RT	RT	RT	RT
100	4.47560	6.50505	2.02945	3.73976	5.32280	1.58304
200	2.60571	3.84372	1.23801	1.86969	2.66051	.79082
300	1.98313	2.95863	.97550	1.24149	1.76121	.51972
400	1.67480	2.52252	.84772	.91463	1.28829	.37366
500	1.49461	2.26973	.77512	.70585	.98577	.27992
600	1.37961	2.10972	.73011	.55914	.77476	.21562
700	1.30192	2.00241	.70049	.45136	.62135	.16999
800	1.24721	1.92728	.68007	.37013	.50688	.13675
900	1.20736	1.87283	.66547	.30777	.41974	.11197
1000	1.17755	1.83224	.65469	.25912	.35225	.09313
1100	1.15473	1.80126	.64653	.22063	.29916	.07853
1200	1.13691	1.77711	.64020	.18976	.25678	.06702
1300	1.12275	1.75796	.63522	.16471	.22252	.05782
1400	1.11132	1.74254	.63122	.14415	.19449	.05034
1500	1.10196	1.72992	.62796	.12709	.17131	.04422
2000	1.07367	1.69183	.61816	.07412	.09967	.02555
2500	1.06021	1.67372	.61352	.04828	.06496	.01669
3000	1.05279	1.66373	.61094	.03394	.04580	.01186
4000	1.04528	1.65356	.60828	.01963	.02678	.00715
5000	1.04168	1.64862	.60694	.01313	.01821	.00508

T°K	$C_{\text{BeD}}^{\circ} - C_{\text{BeH}}^{\circ}$	$C_{\text{BeT}}^{\circ} - C_{\text{BeH}}^{\circ}$	$C_{\text{BeT}}^{\circ} - C_{\text{BeD}}^{\circ}$	$S_{\text{BeD}}^{\circ} - S_{\text{BeH}}^{\circ}$	$S_{\text{BeT}}^{\circ} - S_{\text{BeH}}^{\circ}$	$S_{\text{BeT}}^{\circ} - S_{\text{BeD}}^{\circ}$
	R	R	R	R	R	R
100	-.00031	-.00040	-.00009	.73584	1.18226	.44642
200	.00253	.00876	.00623	.73602	1.18320	.44718
300	.03484	.07794	.04310	.74164	1.19743	.45579
400	.09898	.18231	.08333	.76016	1.23423	.47407
500	.15605	.25934	.10329	.78877	1.28397	.49520
600	.18850	.29479	.10629	.82047	1.33495	.51448
700	.19919	.29965	.10046	.85056	1.38106	.53050
800	.19601	.28720	.09119	.87707	1.42040	.54333
900	.18544	.26668	.08124	.89959	1.45309	.55350
1000	.17164	.24346	.07182	.91843	1.47999	.56156
1100	.15697	.22033	.06336	.93410	1.50210	.56800
1200	.14268	.19864	.05596	.94714	1.52033	.57319
1300	.12936	.17890	.04954	.95803	1.53544	.57741
1400	.11722	.16124	.04402	.96717	1.54804	.58087
1500	.10631	.14556	.03925	.97487	1.55861	.58374
2000	.06718	.09056	.02338	.99956	1.59216	.59260
2500	.04495	.05992	.01497	1.01194	1.60876	.59682
3000	.03151	.04152	.01001	1.01885	1.61792	.59907
4000	.01692	.02160	.00468	1.02565	1.62678	.60113
5000	.00954	.01148	.00194	1.02855	1.63040	.60185

Table 3.12

T °K	$\frac{F^\circ}{\text{MgH}} - \frac{F^\circ}{\text{MgD}}$	$\frac{F^\circ}{\text{MgH}} - \frac{F^\circ}{\text{MgT}}$	$\frac{F^\circ}{\text{MgD}} - \frac{F^\circ}{\text{MgT}}$	$\frac{H^\circ}{\text{MgH}} - \frac{H^\circ}{\text{MgD}}$	$\frac{H^\circ}{\text{MgH}} - \frac{H^\circ}{\text{MgT}}$	$\frac{H^\circ}{\text{MgD}} - \frac{H^\circ}{\text{MgT}}$
	RT	RT	RT	RT	RT	RT
100	3.64353	5.34462	1.70109	2.93707	4.21601	1.27894
200	2.17550	3.23843	1.06293	1.46475	2.09651	.63176
300	1.69120	2.54832	.85712	.95207	1.34712	.39505
400	1.45884	2.22154	.76270	.67321	.93992	.26671
500	1.32896	2.04114	.71218	.49664	.68596	.18932
600	1.24958	1.93192	.68234	.37798	.51797	.13999
700	1.19789	1.86128	.66339	.29528	.40235	.10707
800	1.16254	1.81321	.65068	.23593	.32015	.08423
900	1.13741	1.77916	.64175	.19221	.26003	.06782
1000	1.11894	1.75420	.63526	.15925	.21495	.05570
1100	1.10500	1.73541	.63041	.13388	.18041	.04653
1200	1.09424	1.72092	.62668	.11401	.15343	.03942
1300	1.08577	1.70951	.62374	.09818	.13201	.03383
1400	1.07897	1.70038	.62141	.08541	.11475	.02934
1500	1.07345	1.69296	.61951	.07495	.10066	.02571
2000	1.05684	1.67067	.61383	.04336	.05825	.01489
2500	1.04894	1.66004	.61110	.02854	.03845	.00991
3000	1.04451	1.65405	.60954	.02056	.02785	.00729
4000	1.03982	1.64765	.60784	.01294	.01779	.00486
5000	1.03732	1.64418	.60687	.00973	.01364	.00392

T °K	$\frac{C^\circ}{\text{MgD}} - \frac{C^\circ}{\text{MgH}}$	$\frac{C^\circ}{\text{MgT}} - \frac{C^\circ}{\text{MgH}}$	$\frac{C^\circ}{\text{MgT}} - \frac{C^\circ}{\text{MgD}}$	$\frac{S^\circ}{\text{MgD}} - \frac{S^\circ}{\text{MgH}}$	$\frac{S^\circ}{\text{MgT}} - \frac{S^\circ}{\text{MgH}}$	$\frac{S^\circ}{\text{MgT}} - \frac{S^\circ}{\text{MgD}}$
	R	R	R	R	R	R
100	— .00005	.00041	.00046	.70646	1.12861	.42215
200	.02768	.07136	.04368	.71075	1.14193	.43118
300	.12293	.22942	.10649	.73913	1.20121	.46208
400	.19502	.31853	.12351	.78564	1.28163	.49599
500	.21739	.33194	.11455	.83233	1.35518	.52285
600	.21002	.30854	.09852	.87161	1.41396	.54235
700	.19065	.27335	.08270	.90261	1.45893	.55632
800	.16838	.23752	.06914	.92662	1.49307	.56645
900	.14711	.20514	.05803	.94520	1.51913	.57393
1000	.12817	.17719	.04902	.95970	1.53926	.57956
1100	.11179	.15354	.04175	.97112	1.55501	.58389
1200	.09782	.13364	.03582	.98023	1.56748	.58725
1300	.08595	.11691	.03096	.98758	1.57750	.58992
1400	.07583	.10277	.02694	.99357	1.58563	.59206
1500	.06720	.09078	.02358	.99850	1.59230	.59380
2000	.03888	.05182	.01294	1.01349	1.61242	.59893
2500	.02402	.03156	.00754	1.02041	1.62159	.60118
3000	.01529	.01966	.00437	1.02395	1.62621	.60226
4000	.00580	.00669	.00089	1.02688	1.62985	.60297
5000	.00087	— .00014	— .00101	1.02760	1.63055	.60295

Table 3.13

T°K	$\frac{F^\circ_{\text{CaH}} - F^\circ_{\text{CaD}}}{\text{RT}}$	$\frac{F^\circ_{\text{CaH}} - F^\circ_{\text{CaT}}}{\text{RT}}$	$\frac{F^\circ_{\text{CaD}} - F^\circ_{\text{CaT}}}{\text{RT}}$	$\frac{H^\circ_{\text{CaH}} - H^\circ_{\text{CaD}}}{\text{RT}}$	$\frac{H^\circ_{\text{CaH}} - H^\circ_{\text{CaT}}}{\text{RT}}$	$\frac{H^\circ_{\text{CaD}} - H^\circ_{\text{CaT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.30893	4.86844	1.55851	2.60907	3.75258	1.14251
200	2.00572	2.99635	.99013	1.29606	1.85324	.55668
300	1.58013	2.39167	.81121	.82713	1.16439	.33693
400	1.38039	2.11240	.73176	.57113	.79239	.22101
500	1.27128	1.96179	.69031	.41272	.56663	.15371
600	1.20581	1.87223	.66625	.30915	.42138	.11206
700	1.16378	1.81509	.65116	.23866	.32366	.08485
800	1.13535	1.77659	.64112	.18901	.25538	.06625
900	1.11527	1.74949	.63411	.15295	.20611	.05305
1000	1.10061	1.72976	.62905	.12609	.16957	.04338
1100	1.08960	1.71496	.62527	.10560	.14178	.03609
1200	1.08112	1.70359	.62239	.08966	.12022	.03048
1300	1.07446	1.69467	.62013	.07704	.10319	.02607
1400	1.06914	1.68754	.61833	.06691	.08954	.02256
1500	1.06481	1.68176	.61688	.05864	.07842	.01971
2000	1.05183	1.66441	.61253	.03389	.04519	.01125
2500	1.04564	1.65618	.61050	.02241	.02982	.00737
3000	1.04215	1.65153	.60935	.01628	.02162	.00531
4000	1.03840	1.64655	.60813	.01050	.01390	.00338
5000	1.03634	1.64383	.60747	.00816	.01076	.00258

T°K	$\frac{C^\circ_{\text{CaD}} - C^\circ_{\text{CaH}}}{\text{R}}$	$\frac{C^\circ_{\text{CaT}} - C^\circ_{\text{CaH}}}{\text{R}}$	$\frac{C^\circ_{\text{CaT}} - C^\circ_{\text{CaD}}}{\text{R}}$	$\frac{S^\circ_{\text{CaD}} - S^\circ_{\text{CaH}}}{\text{R}}$	$\frac{S^\circ_{\text{CaT}} - S^\circ_{\text{CaH}}}{\text{R}}$	$\frac{S^\circ_{\text{CaT}} - S^\circ_{\text{CaD}}}{\text{R}}$
	R	R	R	R	R	R
100	.00029	.00221	.00192	.69986	1.11587	.41601
200	.05303	.12255	.06952	.70966	1.14311	.43345
300	.16450	.28845	.12395	.75299	1.22728	.47429
400	.21769	.34162	.12393	.80927	1.32002	.51075
500	.21833	.32430	.10597	.85856	1.39515	.53659
600	.19727	.28405	.08678	.89667	1.45086	.55419
700	.17117	.24177	.07060	.92513	1.49143	.56630
800	.14645	.20424	.05779	.94634	1.52120	.57486
900	.12500	.17280	.04780	.96231	1.54338	.58107
1000	.10699	.14696	.03997	.97453	1.56020	.58567
1100	.09204	.12583	.03379	.98399	1.57318	.58919
1200	.07965	.10850	.02885	.99146	1.58336	.59190
1300	.06934	.09419	.02485	.99742	1.59147	.59405
1400	.06072	.08230	.02158	1.00223	1.59800	.59577
1500	.05344	.07232	.01888	1.00616	1.60333	.59717
2000	.03012	.04058	.01046	1.01793	1.61922	.60129
2500	.01814	.02443	.00629	1.02324	1.62636	.60312
3000	.01112	.01502	.00390	1.02588	1.62992	.60404
4000	.00343	.00476	.00133	1.02790	1.63266	.60476
5000	-.00070	-.00073	-.00003	1.02818	1.63308	.60490

Table 3.14

T°K	$\frac{F^\circ_{\text{SrH}} - F^\circ_{\text{SrD}}}{\text{RT}}$	$\frac{F^\circ_{\text{SrH}} - F^\circ_{\text{SrT}}}{\text{RT}}$	$\frac{F^\circ_{\text{SrD}} - F^\circ_{\text{SrT}}}{\text{RT}}$	$\frac{H^\circ_{\text{SrH}} - H^\circ_{\text{SrD}}}{\text{RT}}$	$\frac{H^\circ_{\text{SrH}} - H^\circ_{\text{SrT}}}{\text{RT}}$	$\frac{H^\circ_{\text{SrD}} - H^\circ_{\text{SrT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.15940	4.65647	1.49607	2.46532	3.55304	1.08672
200	1.92889	2.88639	.95700	1.22003	1.74391	.52338
300	1.53030	2.32089	.79026	.76855	1.07924	.31036
400	1.34591	2.06376	.71760	.52325	.72401	.20051
500	1.24647	1.92684	.68017	.37396	.51225	.13809
600	1.18739	1.84618	.65862	.27787	.37810	.10006
700	1.14972	1.79504	.64517	.21329	.28888	.07544
800	1.12436	1.76074	.63625	.16820	.22708	.05875
900	1.10652	1.73668	.63005	.13569	.18274	.04694
1000	1.09353	1.71921	.62558	.11160	.15002	.03832
1100	1.08379	1.70612	.62224	.09329	.12523	.03185
1200	1.07631	1.69608	.61969	.07911	.10605	.02686
1300	1.07044	1.68822	.61771	.06790	.09093	.02296
1400	1.06574	1.68193	.61612	.05891	.07882	.01984
1500	1.06193	1.67685	.61485	.05161	.06900	.01732
2000	1.05053	1.66162	.61104	.02978	.03965	.00982
2500	1.04509	1.65440	.60927	.01968	.02608	.00636
3000	1.04203	1.65034	.60828	.01430	.01885	.00452
4000	1.03872	1.64602	.60727	.00925	.01202	.00274
5000	1.03691	1.64368	.60675	.00721	.00921	.00198

T°K	$\frac{C^\circ_{\text{SrD}} - C^\circ_{\text{SrH}}}{\text{R}}$	$\frac{C^\circ_{\text{SrT}} - C^\circ_{\text{SrH}}}{\text{R}}$	$\frac{C^\circ_{\text{SrD}} - C^\circ_{\text{SrT}}}{\text{R}}$	$\frac{S^\circ_{\text{SrD}} - S^\circ_{\text{SrH}}}{\text{R}}$	$\frac{S^\circ_{\text{SrT}} - S^\circ_{\text{SrH}}}{\text{R}}$	$\frac{S^\circ_{\text{SrT}} - S^\circ_{\text{SrD}}}{\text{R}}$
	R	R	R	R	R	R
100	.00076	.00462	.00386	.69409	1.10344	.40935
200	.07242	.15875	.08633	.70886	1.14248	.43362
300	.18706	.31848	.13142	.76176	1.24165	.47989
400	.22614	.34834	.12220	.82266	1.33976	.51710
500	.21545	.31598	.10053	.87251	1.41458	.54207
600	.18860	.26908	.08048	.90952	1.46808	.55856
700	.16027	.22482	.06455	.93644	1.50617	.56973
800	.13516	.18752	.05236	.95615	1.53366	.57751
900	.11418	.15721	.04303	.97083	1.55394	.58311
1000	.09698	.13282	.03584	.98193	1.56919	.58726
1100	.08294	.11316	.03022	.99050	1.58090	.59040
1200	.07144	.09720	.02576	.99720	1.59004	.59284
1300	.06197	.08415	.02218	1.00253	1.59728	.59475
1400	.05410	.07336	.01926	1.00683	1.60311	.59628
1500	.04750	.06436	.01686	1.01033	1.60785	.59752
2000	.02656	.03601	.00945	1.02075	1.62198	.60123
2500	.01591	.02175	.00584	1.02541	1.62831	.60290
3000	.00971	.01350	.00379	1.02772	1.63149	.60377
4000	.00294	.00459	.00165	1.02947	1.63400	.60453
5000	-.00069	-.00012	.00057	1.02970	1.63447	.60477

Table 3. 15

T°K	$F_{\text{BaH}}^{\circ} - F_{\text{BaD}}^{\circ}$	$F_{\text{BaH}}^{\circ} - F_{\text{BaT}}^{\circ}$	$F_{\text{BaD}}^{\circ} - F_{\text{BaT}}^{\circ}$	$H_{\text{BaH}}^{\circ} - H_{\text{BaD}}^{\circ}$	$H_{\text{BaH}}^{\circ} - H_{\text{BaT}}^{\circ}$	$H_{\text{BaD}}^{\circ} - H_{\text{BaT}}^{\circ}$
	RT	RT	RT	RT	RT	RT
100	3.10204	4.57394	1.47290	2.40892	3.47373	1.06581
200	1.90011	2.84456	.94495	1.18994	1.69999	.51055
300	1.51220	2.29476	.78289	.74556	1.04546	.30023
400	1.33376	2.04632	.71281	.50489	.69744	.19280
500	1.23800	1.91468	.67688	.35941	.49150	.13229
600	1.18128	1.83738	.65627	.26634	.36177	.09560
700	1.14522	1.78850	.64342	.20406	.27588	.07196
800	1.12096	1.75576	.63493	.16074	.21658	.05597
900	1.10393	1.73283	.62902	.12958	.17414	.04468
1000	1.09152	1.71618	.62476	.10652	.14287	.03645
1100	1.08223	1.70373	.62159	.08904	.11922	.03027
1200	1.07509	1.69418	.61917	.07549	.10094	.02553
1300	1.06948	1.68668	.61727	.06481	.08655	.02181
1400	1.06500	1.68071	.61578	.05625	.07503	.01885
1500	1.06136	1.67585	.61456	.04929	.06568	.01646
2000	1.05044	1.66134	.61095	.02855	.03785	.00935
2500	1.04523	1.65443	.60924	.01900	.02504	.00608
3000	1.04226	1.65054	.60831	.01393	.01825	.00435
4000	1.03900	1.64630	.60733	.00922	.01189	.00270
5000	1.03718	1.64396	.60680	.00736	.00935	.00201

T°K	$C_{\text{BaD}}^{\circ} - C_{\text{BaH}}^{\circ}$	$C_{\text{BaT}}^{\circ} - C_{\text{BaH}}^{\circ}$	$C_{\text{BaT}}^{\circ} - C_{\text{BaD}}^{\circ}$	$S_{\text{BaD}}^{\circ} - S_{\text{BaH}}^{\circ}$	$S_{\text{BaT}}^{\circ} - S_{\text{BaH}}^{\circ}$	$S_{\text{BaT}}^{\circ} - S_{\text{BaD}}^{\circ}$
	R	R	R	R	R	R
100	.00106	.00599	.00493	.69312	1.10022	.40710
200	.08049	.17347	.09298	.71017	1.14458	.43441
300	.19455	.32827	.13372	.76665	1.24930	.48265
400	.22765	.34883	.12118	.82887	1.34887	.52000
500	.21296	.31128	.09832	.87858	1.42317	.54459
600	.18431	.26239	.07808	.91494	1.47560	.56066
700	.15545	.21775	.06230	.94115	1.51261	.57146
800	.13040	.18074	.05034	.96022	1.53918	.57896
900	.10971	.15097	.04126	.97434	1.55869	.58435
1000	.09289	.12719	.03430	.98501	1.57332	.58831
1100	.07923	.10810	.02887	.99319	1.58451	.59132
1200	.06809	.09265	.02456	.99959	1.59323	.59364
1300	.05893	.08005	.02112	1.00467	1.60014	.59547
1400	.05134	.06965	.01831	1.00875	1.60567	.59692
1500	.04499	.06099	.01600	1.01207	1.61017	.59810
2000	.02485	.03375	.00890	1.02189	1.62349	.60160
2500	.01461	.02003	.00542	1.02623	1.62940	.60317
3000	.00862	.01206	.00344	1.02832	1.63228	.60396
4000	.00202	.00335	.00133	1.02978	1.63441	.60463
5000	-.00158	-.00133	.00025	1.02981	1.63461	.60480

Table 3. 16

T°K	$F^{\circ}_{CuH} - F^{\circ}_{CuD}$	$F^{\circ}_{CuH} - F^{\circ}_{CuT}$	$F^{\circ}_{CuD} - F^{\circ}_{CuT}$	$H^{\circ}_{CuH} - H^{\circ}_{CuD}$	$H^{\circ}_{CuH} - H^{\circ}_{CuT}$	$H^{\circ}_{CuD} - H^{\circ}_{CuT}$
	RT	RT	RT	RT	RT	RT
100	4.61101	6.75604	2.14503	3.91636	5.65117	1.73481
200	2.65287	3.93077	1.27790	1.95760	2.82293	.86533
300	2.00156	2.99332	.99176	1.29627	1.85873	.56246
400	1.68058	2.53512	.85454	.94804	1.34532	.39728
500	1.49463	2.27259	.77796	.72474	1.01730	.29256
600	1.37706	2.10830	.73124	.56881	.79110	.22229
700	1.29833	1.99919	.70085	.45548	.62889	.17340
800	1.24329	1.92341	.68012	.37102	.50942	.13840
900	1.20347	1.86884	.66537	.30681	.41946	.11265
1000	1.17381	1.82836	.65455	.25716	.35044	.09328
1100	1.15121	1.79760	.64639	.21814	.29652	.07838
1200	1.13361	1.77370	.64009	.18704	.25377	.06673
1300	1.11967	1.75480	.63513	.16192	.21938	.05746
1400	1.10845	1.73960	.63116	.14137	.19135	.04999
1500	1.09929	1.72721	.62792	.12440	.16827	.04387
2000	1.07168	1.68987	.61819	.07200	.09739	.02539
2500	1.05863	1.67220	.61357	.04665	.06337	.01672
3000	1.05148	1.66246	.61098	.03265	.04469	.01204
4000	1.04429	1.65252	.60823	.01870	.02626	.00756
5000	1.04088	1.64765	.60677	.01236	.01803	.00567

T°K	$C^{\circ}_{CuD} - C^{\circ}_{CuH}$	$C^{\circ}_{CuT} - C^{\circ}_{CuH}$	$C^{\circ}_{CuT} - C^{\circ}_{CuD}$	$S^{\circ}_{CuD} - S^{\circ}_{CuH}$	$S^{\circ}_{CuT} - S^{\circ}_{CuH}$	$S^{\circ}_{CuT} - S^{\circ}_{CuD}$
	R	R	R	R	R	R
100	-.00002	-.00004	-.00002	.69464	1.10486	.41022
200	.00568	.02138	.01570	.69528	1.10785	.41257
300	.05656	.13010	.07354	.70530	1.13460	.42930
400	.13634	.25391	.11757	.73254	1.18981	.45727
500	.19514	.32583	.13069	.76988	1.25528	.48540
600	.22155	.34721	.12566	.80824	1.31719	.50895
700	.22452	.33804	.11352	.84285	1.37030	.52745
800	.21449	.31433	.09984	.87228	1.41399	.54171
900	.19858	.28551	.08693	.89665	1.44937	.55272
1000	.18085	.25638	.07553	.91666	1.47793	.56127
1100	.16337	.22910	.06573	.93307	1.50107	.56800
1200	.14707	.20447	.05740	.94658	1.51993	.57335
1300	.13232	.18268	.05036	.95775	1.53542	.57767
1400	.11917	.16356	.04439	.96707	1.54824	.58117
1500	.10753	.14684	.03931	.97488	1.55894	.58406
2000	.06699	.08971	.02272	.99967	1.59248	.59281
2500	.04459	.05866	.01407	1.01198	1.60884	.59686
3000	.03123	.04023	.00900	1.01883	1.61777	.59894
4000	.01691	.02039	.00348	1.02560	1.62627	.60067
5000	.00977	.01033	.00056	1.02852	1.62963	.60111

Table 3.17

T°K	$\frac{F^\circ}{\text{AgH}} - \frac{F^\circ}{\text{AgD}}$ RT	$\frac{F^\circ}{\text{AgH}} - \frac{F^\circ}{\text{AgT}}$ RT	$\frac{F^\circ}{\text{AgD}} - \frac{F^\circ}{\text{AgT}}$ RT	$\frac{H^\circ}{\text{AgH}} - \frac{H^\circ}{\text{AgD}}$ RT	$\frac{H^\circ}{\text{AgH}} - \frac{H^\circ}{\text{AgT}}$ RT	$\frac{H^\circ}{\text{AgD}} - \frac{H^\circ}{\text{AgT}}$ RT
100	4.26928	6.26470	1.99542	3.58771	5.17271	1.58500
200	2.47557	3.67906	1.20349	1.79254	2.58109	.78855
300	1.88013	2.82418	.94404	1.18091	1.68664	.50572
400	1.58906	2.41071	.82166	.85431	1.20517	.35087
500	1.42243	2.17694	.75451	.64519	.89960	.25441
600	1.31829	2.03240	.71412	.50132	.69231	.19100
700	1.24914	1.93727	.68813	.39871	.54637	.14766
800	1.20105	1.87157	.67051	.32370	.44074	.11703
900	1.16631	1.82440	.65809	.26770	.36244	.09474
1000	1.14041	1.78942	.64901	.22511	.30320	.07809
1100	1.12056	1.76275	.64219	.19216	.25753	.06537
1200	1.10500	1.74195	.63695	.16632	.22178	.05546
1300	1.09253	1.72535	.63283	.14576	.19335	.04760
1400	1.08234	1.71189	.62955	.12922	.17048	.04126
1500	1.07391	1.70078	.62688	.11577	.15186	.03610
2000	1.04685	1.66578	.61894	.07639	.09690	.02052
2500	1.03184	1.64708	.61524	.05975	.07291	.01316
3000	1.02168	1.63491	.61322	.05245	.06161	.00915
4000	1.00729	1.61852	.61122	.04901	.05421	.00519
5000	.99617	1.60645	.61028	.05125	.05463	.00338

T°K	$\frac{C^\circ}{\text{AgD}} - \frac{C^\circ}{\text{AgH}}$ R	$\frac{C^\circ}{\text{AgT}} - \frac{C^\circ}{\text{AgH}}$ R	$\frac{C^\circ}{\text{AgT}} - \frac{C^\circ}{\text{AgD}}$ R	$\frac{S^\circ}{\text{AgD}} - \frac{S^\circ}{\text{AgH}}$ R	$\frac{S^\circ}{\text{AgT}} - \frac{S^\circ}{\text{AgH}}$ R	$\frac{S^\circ}{\text{AgT}} - \frac{S^\circ}{\text{AgD}}$ R
100	— .00013	— .00005	.00008	.68157	1.09199	.41042
200	.01162	.03807	.02645	.68304	1.09798	.41494
300	.08204	.17456	.09252	.69921	1.13754	.43833
400	.16491	.29291	.12800	.73475	1.20554	.47079
500	.21062	.34170	.13108	.77724	1.27734	.50010
600	.22086	.34069	.11983	.81697	1.34008	.52311
700	.21062	.31540	.10478	.85042	1.39089	.54047
800	.19130	.28146	.09016	.87735	1.43084	.55349
900	.16923	.24655	.07732	.89861	1.46195	.56334
1000	.14746	.21395	.06649	.91531	1.48622	.57091
1100	.12730	.18476	.05746	.92840	1.50521	.57681
1200	.10916	.15913	.04997	.93868	1.52016	.58148
1300	.09307	.13680	.04373	.94677	1.53200	.58523
1400	.07885	.11736	.03851	.95313	1.54141	.58828
1500	.06628	.10040	.03412	.95814	1.54892	.59078
2000	.02141	.04153	.02012	.97046	1.56889	.59843
2500	— .00599	.00708	.01307	.97208	1.57416	.60208
3000	— .02487	— .01580	.00907	.96923	1.57331	.60408
4000	— .05066	— .04575	.00491	.95828	1.56432	.60604
5000	— .06887	— .06596	.00291	.94492	1.55181	.60689

Table 3.18

T°K	$\frac{F_{\text{AuH}}^{\circ} - F_{\text{AuD}}^{\circ}}{\text{RT}}$	$\frac{F_{\text{AuH}}^{\circ} - F_{\text{AuT}}^{\circ}}{\text{RT}}$	$\frac{F_{\text{AuD}}^{\circ} - F_{\text{AuT}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{AuH}}^{\circ} - H_{\text{AuD}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{AuH}}^{\circ} - H_{\text{AuT}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{AuD}}^{\circ} - H_{\text{AuT}}^{\circ}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	5.41549	7.96811	2.55272	4.72499	6.82170	2.09681
200	3.05297	4.55731	1.50439	2.36242	3.41013	1.04776
300	2.26592	3.42214	1.15625	1.57152	2.26223	.69074
400	1.87469	2.86063	.98597	1.16492	1.66471	.49982
500	1.64424	2.53274	.88852	.90755	1.28462	.37709
600	1.49566	2.32335	.82771	.72639	1.01869	.29232
700	1.39426	2.18170	.78745	.59210	.82373	.23164
800	1.32217	2.08173	.75957	.48971	.67681	.18711
900	1.26927	2.00882	.73956	.41018	.56389	.15372
1000	1.22943	1.95416	.72474	.34747	.47567	.12821
1100	1.19875	1.91223	.71349	.29738	.40574	.10837
1200	1.17466	1.87941	.70476	.25689	.34955	.09267
1300	1.15546	1.85331	.69786	.22383	.30389	.08007
1400	1.13990	1.83220	.69231	.19651	.26635	.06985
1500	1.12715	1.81492	.68778	.17376	.23519	.06144
2000	1.08826	1.76238	.67413	.10238	.13813	.03576
2500	1.06960	1.73722	.66762	.06718	.09070	.02352
3000	1.05924	1.72321	.66397	.04757	.06443	.01686
4000	1.04865	1.70880	.66015	.02793	.03832	.01039
5000	1.04349	1.70166	.65817	.01903	.02663	.00760

T°K	$\frac{C_{\text{AuD}}^{\circ} - C_{\text{AuH}}^{\circ}}{\text{R}}$	$\frac{C_{\text{AuT}}^{\circ} - C_{\text{AuH}}^{\circ}}{\text{R}}$	$\frac{C_{\text{AuT}}^{\circ} - C_{\text{AuD}}^{\circ}}{\text{R}}$	$\frac{S_{\text{AuD}}^{\circ} - S_{\text{AuH}}^{\circ}}{\text{R}}$	$\frac{S_{\text{AuT}}^{\circ} - S_{\text{AuH}}^{\circ}}{\text{R}}$	$\frac{S_{\text{AuT}}^{\circ} - S_{\text{AuD}}^{\circ}}{\text{R}}$
	R	R	R	R	R	R
100	-.00019	-.00022	-.00003	.69049	1.14641	.45592
200	.00135	.00722	.00587	.69056	1.14718	.45662
300	.02607	.07261	.04654	.69440	1.15991	.46551
400	.08774	.18493	.09719	.70976	1.19591	.48615
500	.15412	.28042	.12630	.73670	1.24813	.51143
600	.20044	.33450	.13406	.76927	1.30466	.53539
700	.22329	.35268	.12939	.80215	1.35797	.55582
800	.22841	.34761	.11920	.83246	1.40493	.57247
900	.22251	.32985	.10734	.85910	1.44493	.58583
1000	.21062	.30626	.09564	.88196	1.47848	.59652
1100	.19604	.28092	.08488	.90137	1.50650	.60513
1200	.18070	.25599	.07529	.91777	1.52986	.61209
1300	.16567	.23255	.06688	.93163	1.54941	.61778
1400	.15149	.21106	.05957	.94339	1.56585	.62246
1500	.13841	.19162	.05321	.95338	1.57973	.62635
2000	.08937	.12111	.03174	.98588	1.62425	.63837
2500	.06022	.08037	.02015	1.00242	1.64651	.64409
3000	.04218	.05545	.01327	1.01168	1.65879	.64711
4000	.02221	.02793	.00572	1.02073	1.67048	.64975
5000	.01191	.01365	.00174	1.02447	1.67503	.65056

Table 3.19

T°K	$\frac{F_{\text{ZnH}}^{\circ}-F_{\text{ZnD}}^{\circ}}{\text{RT}}$	$\frac{F_{\text{ZnH}}^{\circ}-F_{\text{ZnT}}^{\circ}}{\text{RT}}$	$\frac{F_{\text{ZnD}}^{\circ}-F_{\text{ZnT}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{ZnH}}^{\circ}-H_{\text{ZnD}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{ZnH}}^{\circ}-H_{\text{ZnT}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{ZnD}}^{\circ}-H_{\text{ZnT}}^{\circ}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.90948	5.69694	1.78746	3.21701	4.63752	1.42051
200	2.30134	3.37963	1.07829	1.60561	2.30920	.70359
300	1.76952	2.61778	.84826	1.04900	1.49290	.44390
400	1.51258	2.25427	.74170	.74799	1.05057	.30259
500	1.36770	2.05187	.68417	.55655	.77301	.21646
600	1.27842	1.92838	.64996	.42676	.58775	.16099
700	1.21988	1.84800	.62812	.33552	.45920	.12368
800	1.17961	1.79302	.61340	.26953	.36719	.09765
900	1.15083	1.75387	.60304	.22065	.29954	.07889
1000	1.12958	1.72507	.59549	.18363	.24864	.06501
1100	1.11347	1.70328	.58981	.15508	.20956	.05448
1200	1.10097	1.68640	.58543	.13267	.17900	.04633
1300	1.09108	1.67307	.58199	.11482	.15474	.03992
1400	1.08313	1.66235	.57922	.10042	.13522	.03480
1500	1.07661	1.65358	.57697	.08865	.11929	.03064
2000	1.05666	1.62674	.57009	.05341	.07180	.01840
2500	1.04667	1.61332	.56665	.03734	.05028	.01294
3000	1.04067	1.60522	.56455	.02910	.03928	.01018
4000	1.03346	1.59546	.56199	.02202	.02994	.00791
5000	1.02884	1.58915	.56031	.01982	.02709	.00727

T°K	$\frac{C_{\text{ZnD}}^{\circ}-C_{\text{ZnH}}^{\circ}}{\text{R}}$	$\frac{C_{\text{ZnT}}^{\circ}-C_{\text{ZnH}}^{\circ}}{\text{R}}$	$\frac{C_{\text{ZnT}}^{\circ}-C_{\text{ZnD}}^{\circ}}{\text{R}}$	$\frac{S_{\text{ZnD}}^{\circ}-S_{\text{ZnH}}^{\circ}}{\text{R}}$	$\frac{S_{\text{ZnT}}^{\circ}-S_{\text{ZnH}}^{\circ}}{\text{R}}$	$\frac{S_{\text{ZnT}}^{\circ}-S_{\text{ZnD}}^{\circ}}{\text{R}}$
	R	R	R	R	R	R
100	-.00012	.00019	.00031	.69248	1.05942	.36694
200	.02230	.06186	.03956	.69573	1.07043	.37470
300	.11221	.21840	.10619	.72053	1.12488	.40435
400	.19025	.31977	.12952	.76459	1.20370	.43911
500	.22105	.34480	.12375	.81115	1.27886	.46771
600	.21951	.32792	.10841	.85165	1.34063	.48898
700	.20296	.29501	.09205	.88436	1.38880	.50444
800	.18144	.25891	.07747	.91008	1.42584	.51576
900	.15966	.22486	.06520	.93018	1.45434	.52416
1000	.13958	.19467	.05509	.94594	1.47642	.53048
1100	.12176	.16855	.04679	.95839	1.49372	.53533
1200	.10623	.14619	.03996	.96830	1.50740	.53910
1300	.09280	.12709	.03429	.97626	1.51833	.54207
1400	.08121	.11076	.02955	.98271	1.52714	.54443
1500	.07117	.09674	.02557	.98796	1.53429	.54633
2000	.03717	.04980	.01263	1.00325	1.55494	.55169
2500	.01835	.02413	.00578	1.00933	1.56304	.55371
3000	.00670	.00831	.00161	1.01157	1.56593	.55436
4000	-.00685	-.01007	-.00322	1.01144	1.56553	.55409
5000	-.01452	-.02053	-.00601	1.00901	1.56206	.55305

Table 3.20

$T^{\circ}\text{K}$	$\frac{F_{\text{CdH}}^{\circ}-F_{\text{CdD}}^{\circ}}{\text{RT}}$	$\frac{F_{\text{CdH}}^{\circ}-F_{\text{CdT}}^{\circ}}{\text{RT}}$	$\frac{F_{\text{CdD}}^{\circ}-F_{\text{CdT}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{CdH}}^{\circ}-H_{\text{CdD}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{CdH}}^{\circ}-H_{\text{CdT}}^{\circ}}{\text{RT}}$	$\frac{H_{\text{CdD}}^{\circ}-H_{\text{CdT}}^{\circ}}{\text{RT}}$
100	3.57098	5.25250	1.68142	2.88403	4.16292	1.27879
200	2.12988	3.17416	1.04423	1.43579	2.06333	.62749
300	1.65673	2.49801	.84124	.92482	1.31059	.38573
400	1.43229	2.18202	.74971	.64567	.90214	.25645
500	1.30843	2.00982	.70137	.47055	.65070	.18013
600	1.23360	1.90669	.67308	.35427	.48659	.13231
700	1.18537	1.84058	.65520	.27405	.37492	.10086
800	1.15272	1.79597	.64324	.21693	.29622	.07928
900	1.12970	1.76454	.63483	.17507	.23902	.06394
1000	1.11296	1.74167	.62870	.14365	.19638	.05272
1100	1.10045	1.72455	.62410	.11954	.16384	.04430
1200	1.09088	1.71142	.62052	.10067	.13854	.03785
1300	1.08345	1.70115	.61770	.08567	.11849	.03282
1400	1.07756	1.69299	.61542	.07355	.10240	.02884
1500	1.07284	1.68638	.61354	.06363	.08928	.02565
2000	1.05924	1.66687	.60763	.03348	.05001	.01653
2500	1.05349	1.65789	.60439	.01906	.03181	.01274
3000	1.05079	1.65304	.60224	.01102	.02210	.01107
4000	1.04892	1.64816	.59924	.00277	.01288	.01011
5000	1.04877	1.64575	.59697	-.00126	.00903	.01028

$T^{\circ}\text{K}$	$\frac{C_{\text{CdD}}^{\circ}-C_{\text{CdH}}^{\circ}}{\text{R}}$	$\frac{C_{\text{CdT}}^{\circ}-C_{\text{CdH}}^{\circ}}{\text{R}}$	$\frac{C_{\text{CdT}}^{\circ}-C_{\text{CdD}}^{\circ}}{\text{R}}$	$\frac{S_{\text{CdD}}^{\circ}-S_{\text{CdH}}^{\circ}}{\text{R}}$	$\frac{S_{\text{CdT}}^{\circ}-S_{\text{CdH}}^{\circ}}{\text{R}}$	$\frac{S_{\text{CdT}}^{\circ}-S_{\text{CdD}}^{\circ}}{\text{R}}$
100	.00007	.00122	.00115	.68696	1.08958	.40262
200	.04183	.10299	.06116	.69408	1.11082	.41674
300	.15260	.27677	.12417	.73191	1.18741	.45550
400	.22009	.35213	.13204	.78662	1.27988	.49326
500	.23300	.34956	.11656	.83787	1.35912	.52125
600	.21864	.31562	.09698	.87932	1.42009	.54077
700	.19523	.27456	.07933	.91132	1.46567	.55435
800	.17098	.23577	.06479	.93579	1.49975	.56396
900	.14893	.20205	.05312	.95463	1.52552	.57089
1000	.12989	.17366	.04377	.96930	1.54529	.57599
1100	.11378	.15002	.03624	.98091	1.56070	.57979
1200	.10026	.13037	.03011	.99021	1.57289	.58268
1300	.08893	.11399	.02506	.99778	1.58265	.58487
1400	.07940	.10025	.02085	1.00401	1.59058	.58657
1500	.07136	.08867	.01731	1.00920	1.59709	.58789
2000	.04569	.05146	.00577	1.02576	1.61685	.59109
2500	.03297	.03243	-.00054	1.03444	1.62608	.59164
3000	.02594	.02141	-.00453	1.03977	1.63094	.59117
4000	.01909	.00967	-.00942	1.04614	1.63527	.58913
5000	.01607	.00371	-.01236	1.05004	1.63673	.58669

Table 3. 21

$T^{\circ}\text{K}$	$\frac{F^{\circ}_{\text{HgH}} - F^{\circ}_{\text{HgD}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{HgH}} - F^{\circ}_{\text{HgT}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{HgD}} - F^{\circ}_{\text{HgT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{HgH}} - H^{\circ}_{\text{HgD}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{HgH}} - H^{\circ}_{\text{HgT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{HgD}} - H^{\circ}_{\text{HgT}}}{\text{RT}}$
100	3.36119	4.94389	1.58108	2.67918	3.85976	1.17896
200	2.02313	3.01850	.99456	1.33022	1.90565	.57462
300	1.58636	2.39660	.80971	.84928	1.19849	.34868
400	1.38097	2.10874	.72736	.58881	.81872	.22950
500	1.26810	1.95267	.68424	.42891	.58944	.16020
600	1.19971	1.85910	.65911	.32527	.44295	.11740
700	1.15513	1.79862	.64325	.25566	.34554	.08964
800	1.12434	1.75711	.63258	.20759	.27868	.07090
900	1.10196	1.72716	.62503	.17360	.23162	.05784
1000	1.08499	1.70460	.61945	.14917	.19782	.04849
1100	1.07166	1.68697	.61516	.13135	.17316	.04166
1200	1.06083	1.67272	.61177	.11824	.15495	.03659
1300	1.05175	1.66088	.60899	.10852	.14141	.03275
1400	1.04400	1.65078	.60667	.10133	.13129	.02985
1500	1.03719	1.64200	.60469	.09601	.12375	.02762
2000	1.01151	1.60925	.59765	.08528	.10762	.02225
2500	.99250	1.58543	.59286	.08600	.10719	.02112
3000	.97649	1.56553	.58899	.09018	.11163	.02140
4000	.94916	1.53182	.58262	.10021	.12334	.02309
5000	.92583	1.50314	.57727	.10884	.13373	.02485

$T^{\circ}\text{K}$	$\frac{C^{\circ}_{\text{HgD}} - C^{\circ}_{\text{HgH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{HgT}} - C^{\circ}_{\text{HgH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{HgT}} - C^{\circ}_{\text{HgD}}}{\text{R}}$	$\frac{S^{\circ}_{\text{HgD}} - S^{\circ}_{\text{HgH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{HgT}} - S^{\circ}_{\text{HgH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{HgT}} - S^{\circ}_{\text{HgD}}}{\text{R}}$
100	.00064	.00269	.00205	.68201	1.08413	.40212
200	.05632	.12652	.07020	.69292	1.11286	.41994
300	.16359	.28840	.12481	.73707	1.19810	.46103
400	.21026	.33581	.12555	.79215	1.29001	.49786
500	.20540	.31253	.10713	.83920	1.36323	.52403
600	.17836	.26473	.08637	.87443	1.41614	.54171
700	.14535	.21342	.06807	.89947	1.45308	.55361
800	.11309	.16609	.05300	.91674	1.47842	.56168
900	.08389	.12467	.04078	.92834	1.49553	.56719
1000	.05824	.08910	.03086	.93583	1.50678	.57095
1100	.03594	.05868	.02274	.94030	1.51381	.57351
1200	.01660	.03260	.01600	.94258	1.51777	.57519
1300	-.00025	.01012	.01037	.94323	1.51947	.57624
1400	-.01497	-.00937	.00560	.94266	1.51949	.57683
1500	-.02791	-.02640	.00151	.94117	1.51825	.57708
2000	-.07401	-.08634	-.01233	.92622	1.50162	.57540
2500	-.10161	-.12178	-.02017	.90650	1.47824	.57174
3000	-.11930	-.14438	-.02508	.88630	1.45389	.56759
4000	-.13869	-.16919	-.03050	.84894	1.40847	.55953
5000	-.14670	-.17959	-.03289	.81699	1.36942	.55243

Table 3.22

T°K	$\frac{F_{BH}^{\circ}-F_{BD}^{\circ}}{RT}$	$\frac{F_{BH}^{\circ}-F_{BT}^{\circ}}{RT}$	$\frac{F_{BD}^{\circ}-F_{BT}^{\circ}}{RT}$	$\frac{H_{BH}^{\circ}-H_{BD}^{\circ}}{RT}$	$\frac{H_{BH}^{\circ}-H_{BT}^{\circ}}{RT}$	$\frac{H_{BD}^{\circ}-H_{BT}^{\circ}}{RT}$
	RT	RT	RT	RT	RT	RT
100	4.83870	7.40468	2.56598	4.10939	6.23680	2.12741
200	2.78393	4.28622	1.50229	2.05480	3.11823	1.06343
300	2.09920	3.24766	1.14845	1.36801	2.07226	.70424
400	1.75824	2.73235	.97411	1.01707	1.53184	.51477
500	1.55663	2.42983	.87320	.79613	1.18906	.39293
600	1.42598	2.23548	.80951	.64062	.94842	.30781
700	1.33632	2.10327	.76695	.52484	.77083	.24599
800	1.27229	2.00953	.73724	.43604	.63604	.20000
900	1.22510	1.94091	.71580	.36665	.53177	.16511
1000	1.18942	1.88928	.69986	.31166	.44982	.13816
1100	1.16186	1.84958	.68772	.26751	.38454	.11703
1200	1.14017	1.81846	.67829	.23171	.33191	.10020
1300	1.12282	1.79364	.67082	.20236	.28899	.08663
1400	1.10874	1.77356	.66482	.17807	.25360	.07553
1500	1.09718	1.75710	.65993	.15778	.22414	.06637
2000	1.06169	1.70695	.64526	.09397	.13207	.03810
2500	1.04448	1.68287	.63838	.06252	.08689	.02436
3000	1.03476	1.66944	.63467	.04508	.06182	.01673
4000	1.02450	1.65558	.63108	.02794	.03695	.00901
5000	1.01918	1.64867	.62949	.02049	.02588	.00539

T°K	$\frac{C_{BD}^{\circ}-C_{BH}^{\circ}}{R}$	$\frac{C_{BT}^{\circ}-C_{BH}^{\circ}}{R}$	$\frac{C_{BT}^{\circ}-C_{BD}^{\circ}}{R}$	$\frac{S_{BD}^{\circ}-S_{BH}^{\circ}}{R}$	$\frac{S_{BT}^{\circ}-S_{BH}^{\circ}}{R}$	$\frac{S_{BT}^{\circ}-S_{BD}^{\circ}}{R}$
	R	R	R	R	R	R
100	-.00054	-.00062	-.00008	.72931	1.16788	.43857
200	.00042	.00325	.00283	.72914	1.16800	.43886
300	.01542	.04638	.03096	.73119	1.17541	.44422
400	.06012	.13634	.07622	.74118	1.20052	.45934
500	.11444	.22370	.10926	.76050	1.24076	.48026
600	.15647	.28004	.12357	.78535	1.28705	.50170
700	.18023	.30484	.12461	.81148	1.33244	.52096
800	.18869	.30720	.11851	.83625	1.37349	.53724
900	.18691	.29622	.10931	.85844	1.40913	.55069
1000	.17909	.27837	.09928	.87777	1.43946	.56169
1100	.16820	.25769	.08949	.89435	1.46503	.57068
1200	.15606	.23651	.08045	.90846	1.48655	.57809
1300	.14374	.21608	.07234	.92046	1.50466	.58420
1400	.13186	.19700	.06514	.93068	1.51997	.58929
1500	.12070	.17951	.05881	.93939	1.53295	.59356
2000	.07760	.11461	.03701	.96772	1.57488	.60716
2500	.05109	.07625	.02516	.98196	1.59597	.61401
3000	.03426	.05250	.01824	.98967	1.60761	.61794
4000	.01498	.02601	.01103	.99657	1.61863	.62206
5000	.00451	.01213	.00762	.99869	1.62280	.62411

Table 3.23

T°K	$\frac{F^\circ_{\text{AlH}} - F^\circ_{\text{AlD}}}{\text{RT}}$	$\frac{F^\circ_{\text{AlH}} - F^\circ_{\text{AlT}}}{\text{RT}}$	$\frac{F^\circ_{\text{AlD}} - F^\circ_{\text{AlT}}}{\text{RT}}$	$\frac{H^\circ_{\text{AlH}} - H^\circ_{\text{AlD}}}{\text{RT}}$	$\frac{H^\circ_{\text{AlH}} - H^\circ_{\text{AlT}}}{\text{RT}}$	$\frac{H^\circ_{\text{AlD}} - H^\circ_{\text{AlT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	4.02623	5.89831	1.87208	3.32053	4.77351	1.45298
200	2.36612	3.51236	1.14624	1.65871	2.38092	.72221
300	1.81556	2.72453	.90897	1.09022	1.55161	.46139
400	1.54739	2.34493	.79755	.78487	1.10344	.31858
500	1.39471	2.13141	.73670	.58924	.81929	.23005
600	1.29987	2.00010	.70023	.45498	.62713	.17215
700	1.23730	1.91413	.67683	.35948	.49225	.13277
800	1.19409	1.85511	.66102	.28975	.39479	.10504
900	1.16312	1.81299	.64987	.23768	.32260	.08492
1000	1.14021	1.78194	.64173	.19801	.26793	.06992
1100	1.12285	1.75848	.63563	.16721	.22571	.05850
1200	1.10938	1.74032	.63093	.14292	.19252	.04959
1300	1.09875	1.72599	.62725	.12348	.16603	.04256
1400	1.09018	1.71450	.62432	.10770	.14460	.03690
1500	1.08321	1.70514	.62193	.09476	.12703	.03227
2000	1.06212	1.67694	.61483	.05540	.07379	.01840
2500	1.05198	1.66348	.61150	.03681	.04871	.01190
3000	1.04624	1.65591	.60967	.02682	.03520	.00838
4000	1.04004	1.64784	.60780	.01732	.02228	.00496
5000	1.03665	1.64353	.60688	.01344	.01690	.00346

T°K	$\frac{C^\circ_{\text{AlD}} - C^\circ_{\text{AlH}}}{\text{R}}$	$\frac{C^\circ_{\text{AlT}} - C^\circ_{\text{AlH}}}{\text{R}}$	$\frac{C^\circ_{\text{AlT}} - C^\circ_{\text{AlD}}}{\text{R}}$	$\frac{S^\circ_{\text{AlD}} - S^\circ_{\text{AlH}}}{\text{R}}$	$\frac{S^\circ_{\text{AlT}} - S^\circ_{\text{AlH}}}{\text{R}}$	$\frac{S^\circ_{\text{AlT}} - S^\circ_{\text{AlD}}}{\text{R}}$
	R	R	R	R	R	R
100	— .00023	— .00004	.00019	.70570	1.12481	.41911
200	.01360	.04132	.02772	.70741	1.13144	.42403
300	.08825	.17928	.09103	.72534	1.17292	.44758
400	.16910	.29115	.12205	.76252	1.24149	.47897
500	.21045	.33316	.12271	.80546	1.31211	.50665
600	.21793	.32880	.11087	.84489	1.37296	.52807
700	.20716	.30330	.09614	.87782	1.42188	.54406
800	.18892	.27116	.08224	.90434	1.46031	.55597
900	.16886	.23907	.07021	.92543	1.49038	.56495
1000	.14961	.20974	.06013	.94221	1.51402	.57181
1100	.13214	.18394	.05180	.95564	1.53278	.57714
1200	.11673	.16164	.04491	.96646	1.54779	.58133
1300	.10330	.14249	.03919	.97526	1.55995	.58469
1400	.09166	.12608	.03442	.98248	1.56990	.58742
1500	.08157	.11198	.03041	.98846	1.57811	.58965
2000	.04755	.06520	.01765	1.00672	1.60315	.59643
2500	.02914	.04034	.01120	1.01516	1.61476	.59960
3000	.01808	.02559	.00751	1.01943	1.62071	.60128
4000	.00572	.00934	.00362	1.02272	1.62556	.60284
5000	.00105	.00064	.00169	1.02321	1.62663	.60342

Table 3.24

T°K	$\frac{F^{\circ}_{\text{InH}} - F^{\circ}_{\text{InD}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{InH}} - F^{\circ}_{\text{InT}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{InD}} - F^{\circ}_{\text{InT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{InH}} - H^{\circ}_{\text{InD}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{InH}} - H^{\circ}_{\text{InT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{InD}} - H^{\circ}_{\text{InT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.71162	5.44932	1.73770	3.01437	4.34701	1.33264
200	2.20503	3.27810	1.07307	1.50279	2.15954	.65675
300	1.70850	2.56818	.85968	.97497	1.38292	.40795
400	1.47084	2.23332	.76248	.68751	.96114	.27363
500	1.33836	2.04912	.71076	.50585	.69912	.19327
600	1.25759	1.93795	.68036	.38415	.52652	.14237
700	1.20510	1.86622	.66112	.29959	.40817	.10858
800	1.16927	1.81751	.64824	.23904	.32426	.08522
900	1.14381	1.78302	.63921	.19454	.26302	.06848
1000	1.12513	1.75780	.63267	.16104	.21719	.05615
1100	1.11104	1.73882	.62778	.13529	.18212	.04683
1200	1.10016	1.72419	.62402	.11513	.15475	.03961
1300	1.09160	1.71269	.62110	.09911	.13304	.03394
1400	1.08474	1.70349	.61875	.08617	.11556	.02939
1500	1.07918	1.69603	.61685	.07559	.10129	.02570
2000	1.06245	1.67363	.61118	.04365	.05837	.01472
2500	1.05450	1.66301	.60850	.02865	.03832	.00966
3000	1.05006	1.65706	.60700	.02059	.02756	.00697
4000	1.04536	1.65077	.60541	.01285	.01728	.00443
5000	1.04289	1.64743	.60454	.00959	.01298	.00339

T°K	$\frac{C^{\circ}_{\text{InD}} - C^{\circ}_{\text{InH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{InT}} - C^{\circ}_{\text{InH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{InT}} - C^{\circ}_{\text{InD}}}{\text{R}}$	$\frac{S^{\circ}_{\text{InD}} - S^{\circ}_{\text{InH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{InT}} - S^{\circ}_{\text{InH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{InT}} - S^{\circ}_{\text{InD}}}{\text{R}}$
	R	R	R	R	R	R
100	.00003	.00073	.00070	.69724	1.10231	.40507
200	.03144	.08366	.05222	.70224	1.11856	.41632
300	.13330	.25197	.11867	.73353	1.18526	.45173
400	.20684	.33990	.13306	.78334	1.27218	.48884
500	.22755	.34866	.12111	.83251	1.35001	.51750
600	.21795	.32090	.10295	.87344	1.41143	.53799
700	.19663	.28243	.08580	.90551	1.45805	.55254
800	.17290	.24428	.07138	.93022	1.49324	.56302
900	.15056	.21028	.05972	.94927	1.52001	.57074
1000	.13084	.18121	.05037	.96409	1.54061	.57652
1100	.11391	.15676	.04285	.97574	1.55670	.58096
1200	.09953	.13629	.03676	.98502	1.56943	.58441
1300	.08735	.11914	.03179	.99249	1.57964	.58715
1400	.07703	.10471	.02768	.99858	1.58794	.58936
1500	.06824	.09251	.02427	1.00359	1.59473	.59114
2000	.03951	.05305	.01354	1.01880	1.61526	.59646
2500	.02452	.03269	.00817	1.02584	1.62468	.59884
3000	.01574	.02080	.00506	1.02947	1.62951	.60004
4000	.00617	.00789	.00172	1.03252	1.63349	.60097
5000	.00114	.00111	— .00003	1.03331	1.63446	.60115

Table 3.25

T °K	$\frac{F^{\circ}_{TiH} - F^{\circ}_{TiD}}{RT}$	$\frac{F^{\circ}_{TiH} - F^{\circ}_{TiT}}{RT}$	$\frac{F^{\circ}_{TiD} - F^{\circ}_{TiT}}{RT}$	$\frac{H^{\circ}_{TiH} - H^{\circ}_{TiD}}{RT}$	$\frac{H^{\circ}_{TiH} - H^{\circ}_{TiT}}{RT}$	$\frac{H^{\circ}_{TiD} - H^{\circ}_{TiT}}{RT}$
	RT	RT	RT	RT	RT	RT
100	3.54854	5.21798	1.66954	2.85819	4.12310	1.26501
200	2.12037	3.15971	1.03939	1.42279	2.04273	.61999
300	1.65158	2.49061	.83907	.91609	1.29606	.38001
400	1.42929	2.17827	.74901	.63940	.89136	.25199
500	1.30662	2.00815	.70155	.46615	.64282	.17669
600	1.23245	1.90625	.67381	.35141	.48106	.12966
700	1.18457	1.84086	.65630	.27249	.37125	.09877
800	1.15205	1.79661	.64457	.21643	.29402	.07760
900	1.12903	1.76538	.63636	.17545	.23800	.06256
1000	1.11222	1.74257	.63036	.14477	.19631	.05155
1100	1.09956	1.72541	.62585	.12126	.16453	.04327
1200	1.08983	1.71220	.62237	.10291	.13984	.03693
1300	1.08219	1.70181	.61963	.08835	.12031	.03197
1400	1.07608	1.69348	.61741	.07660	.10463	.02804
1500	1.07115	1.68673	.61558	.06702	.09188	.02486
2000	1.05641	1.66628	.60988	.03811	.05383	.01573
2500	1.04953	1.65637	.60685	.02449	.03635	.01187
3000	1.04578	1.65063	.60486	.01710	.02720	.01011
4000	1.04201	1.64415	.60214	.00987	.01891	.00904
5000	1.04019	1.64030	.60011	.00666	.01591	.00925

T °K	$\frac{C^{\circ}_{TiD} - C^{\circ}_{TiH}}{R}$	$\frac{C^{\circ}_{TiT} - C^{\circ}_{TiH}}{R}$	$\frac{C^{\circ}_{TiT} - C^{\circ}_{TiD}}{R}$	$\frac{S^{\circ}_{TiD} - S^{\circ}_{TiH}}{R}$	$\frac{S^{\circ}_{TiT} - S^{\circ}_{TiH}}{R}$	$\frac{S^{\circ}_{TiT} - S^{\circ}_{TiD}}{R}$
	R	R	R	R	R	R
100	.00011	.00139	.00128	.69035	1.09489	.40454
200	.04218	.10563	.06345	.69758	1.11697	.41939
300	.15236	.27811	.12575	.73548	1.19454	.45906
400	.21803	.34995	.13192	.78990	1.28692	.49702
500	.22894	.34443	.11549	.84047	1.36534	.52487
600	.21301	.30862	.09561	.88104	1.42519	.54415
700	.18858	.26660	.07802	.91207	1.46960	.55753
800	.16372	.22742	.06370	.93561	1.50259	.56698
900	.14133	.19362	.05229	.95358	1.52738	.57380
1000	.12210	.16532	.04322	.96745	1.54627	.57882
1100	.10589	.14183	.03594	.97830	1.56089	.58259
1200	.09231	.12236	.03005	.98691	1.57236	.58545
1300	.08094	.10615	.02521	.99384	1.58150	.58766
1400	.07136	.09255	.02119	.99949	1.58886	.58937
1500	.06328	.08109	.01781	1.00412	1.59484	.59072
2000	.03724	.04407	.00683	1.01830	1.61246	.59416
2500	.02397	.02476	.00079	1.02504	1.62001	.59497
3000	.01635	.01322	— .00313	1.02868	1.62343	.59475
4000	.00837	.00013	— .00824	1.03214	1.62523	.59309
5000	.00442	— .00730	— .01172	1.03353	1.62439	.59086

Table 3.26

T°K	$F_{CH}^{\circ} - F_{CD}^{\circ}$	$F_{CH}^{\circ} - F_{CT}^{\circ}$	$F_{CD}^{\circ} - F_{CT}^{\circ}$	$H_{CH}^{\circ} - H_{CD}^{\circ}$	$H_{CH}^{\circ} - H_{CT}^{\circ}$	$H_{CD}^{\circ} - H_{CT}^{\circ}$
	RT	RT	RT	RT	RT	RT
100	6.06121	8.82611	2.76480	5.34464	7.67257	2.32783
200	3.39059	4.99189	1.60125	2.66901	3.83221	1.16315
300	2.50117	3.71492	1.21374	1.77818	2.55196	.77377
400	2.05708	3.07820	1.02109	1.32933	1.90310	.57374
500	1.79227	2.69987	.90758	1.05264	1.49968	.44702
600	1.61831	2.45273	.83441	.86003	1.21777	.35773
700	1.49705	2.28156	.78450	.71606	1.00759	.29152
800	1.40903	2.15804	.74899	.60410	.84517	.24105
900	1.34320	2.06618	.72297	.51495	.71685	.20189
1000	1.29281	1.99617	.70334	.44290	.61394	.17102
1100	1.25344	1.94171	.68826	.38403	.53042	.14638
1200	1.22219	1.89859	.67639	.33543	.46191	.12647
1300	1.19698	1.86392	.66693	.29496	.40518	.11021
1400	1.17639	1.83568	.65928	.26105	.35784	.09678
1500	1.15941	1.81238	.65297	.23236	.31795	.08559
2000	1.10685	1.74069	.63384	.13983	.19019	.05036
2500	1.08125	1.70594	.62469	.09259	.12541	.03282
3000	1.06695	1.68661	.61965	.06571	.08863	.02291
4000	1.05236	1.66703	.61466	.03833	.05104	.01270
5000	1.04533	1.65775	.61241	.02567	.03347	.00779

T°K	$C_{CD}^{\circ} - C_{CH}^{\circ}$	$C_{CT}^{\circ} - C_{CH}^{\circ}$	$C_{CT}^{\circ} - C_{CD}^{\circ}$	$S_{CD}^{\circ} - S_{CH}^{\circ}$	$S_{CT}^{\circ} - S_{CH}^{\circ}$	$S_{CT}^{\circ} - S_{CD}^{\circ}$
	R	R	R	R	R	R
100	.01439	.01759	.00320	.71657	1.15354	.43697
200	.00307	.00425	.00118	.72158	1.15968	.43810
300	.00660	.01882	.01222	.72299	1.16296	.43997
400	.03215	.07482	.04267	.72775	1.17510	.44735
500	.07810	.15416	.07606	.73963	1.20019	.46056
600	.12708	.22633	.09925	.75828	1.23496	.47668
700	.16605	.27650	.11045	.78099	1.27397	.49298
800	.19101	.30378	.11277	.80493	1.31287	.50794
900	.20339	.31299	.10960	.82825	1.34933	.52108
1000	.20625	.30981	.10356	.84991	1.38223	.53232
1100	.20270	.29898	.09628	.86941	1.41129	.54188
1200	.19520	.28389	.08869	.88676	1.43668	.54992
1300	.18547	.26678	.08131	.90202	1.45874	.55672
1400	.17466	.24909	.07443	.91534	1.47784	.56250
1500	.16358	.23167	.06809	.92705	1.49443	.56738
2000	.11443	.15911	.04468	.96702	1.55050	.58348
2500	.08061	.11169	.03108	.98866	1.58053	.59187
3000	.05825	.08111	.02286	1.00124	1.59798	.59674
4000	.03242	.04657	.01415	1.01403	1.61599	.60196
5000	.01879	.02881	.01002	1.01966	1.62428	.60462

Table 3.27

T°K	F°_{SiH}	F°_{SiD}	F°_{SiH}	F°_{SiT}	F°_{SiD}	F°_{SiT}	H°_{SiH}	H°_{SiD}	H°_{SiH}	H°_{SiT}	H°_{SiD}	H°_{SiT}
	RT		RT		RT		RT		RT		RT	
100	4.75492		6.91888		2.16396		4.05990		5.80743		1.74753	
200	2.72745		4.01868		1.29122		2.02458		2.89515		.87056	
300	2.05373		3.05668		1.00295		1.34218		1.91036		.56818	
400	1.72078		2.58476		.86398		.98600		1.38952		.40352	
500	1.52687		2.31294		.78607		.75802		1.05612		.29810	
600	1.40360		2.14206		.73845		.59803		.82455		.22651	
700	1.32066		2.02819		.70753		.48083		.65710		.17627	
800	1.26247		1.94895		.68648		.39282		.53285		.14003	
900	1.22027		1.89188		.67160		.32550		.43874		.11323	
1000	1.18881		1.84955		.66074		.27313		.36616		.09303	
1100	1.16481		1.81746		.65265		.23181		.30928		.07747	
1200	1.14608		1.79255		.64648		.19875		.26401		.06527	
1300	1.13127		1.77290		.64163		.17199		.22753		.05554	
1400	1.11934		1.75715		.63781		.15007		.19777		.04770	
1500	1.10962		1.74437		.63475		.13194		.17320		.04126	
2000	1.08041		1.70633		.62592		.07586		.09770		.02184	
2500	1.06673		1.68888		.62214		.04876		.06138		.01261	
3000	1.05927		1.67963		.62036		.03385		.04141		.00756	
4000	1.05187		1.67085		.61899		.01916		.02157		.00242	
5000	1.04840		1.66713		.61874		.01263		.01251	-	.00011	

T°K	$C^{\circ}_{SiD}-C^{\circ}_{SiH}$	$C^{\circ}_{SiT}-C^{\circ}_{SiH}$	$C^{\circ}_{SiT}-C^{\circ}_{SiD}$	$S^{\circ}_{SiD}-S^{\circ}_{SiH}$	$S^{\circ}_{SiT}-S^{\circ}_{SiH}$	$S^{\circ}_{SiT}-S^{\circ}_{SiD}$
	R	R	R	R	R	R
100	.01791	.02388	.00597	.69502	1.11145	.41643
200	.00851	.02176	.01325	.70288	1.12353	.42065
300	.04633	.11034	.06451	.71155	1.14633	.43478
400	.12037	.23232	.11195	.73478	1.19525	.46047
500	.18287	.31365	.13078	.76885	1.25682	.48797
600	.21615	.34599	.12984	.80557	1.31751	.51194
700	.22525	.34517	.11992	.83982	1.37108	.53126
800	.21950	.32679	.10729	.86965	1.41610	.54645
900	.20624	.30094	.09470	.89478	1.45314	.55836
1000	.18989	.27317	.08328	.91568	1.48339	.56771
1100	.17299	.24631	.07332	.93300	1.50819	.57519
1200	.15675	.22154	.06479	.94733	1.52854	.58121
1300	.14176	.19928	.05752	.95928	1.54537	.58609
1400	.12820	.17951	.05131	.96926	1.55938	.59012
1500	.11605	.16210	.04605	.97768	1.57117	.59349
2000	.07291	.10189	.02898	1.00455	1.60863	.60408
2500	.04858	.06896	.02038	1.01797	1.62750	.60953
3000	.03388	.04957	.01569	1.02542	1.63821	.61279
4000	.01798	.02916	.01118	1.03272	1.64929	.61657
5000	.00992	.01937	.00945	1.03576	1.65462	.61886

Table 3. 28

T°K	$\frac{F^{\circ}_{\text{SnD}} - F^{\circ}_{\text{SnT}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{SnH}} - F^{\circ}_{\text{SnT}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{SnD}} - F^{\circ}_{\text{SnT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{SnH}} - H^{\circ}_{\text{SnD}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{SnH}} - H^{\circ}_{\text{SnT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{SnD}} - H^{\circ}_{\text{SnT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.97413	5.82864	1.84741	3.28147	4.73005	1.44148
200	2.33368	3.46492	1.12769	1.63832	2.35624	.71437
300	1.79064	2.68708	.89407	1.07238	1.52566	.45091
400	1.52775	2.31541	.78589	.76594	1.07445	.30674
500	1.37938	2.10848	.72768	.56965	.78956	.21849
600	1.28810	1.98251	.69323	.43561	.59833	.16154
700	1.22847	1.90088	.67140	.34087	.46513	.12325
800	1.18768	1.84534	.65677	.27212	.36955	.09654
900	1.15871	1.80608	.64658	.22107	.29918	.07732
1000	1.13752	1.77743	.63920	.18237	.24619	.06311
1100	1.12159	1.75596	.63372	.15247	.20546	.05234
1200	1.10938	1.73950	.62953	.12899	.17358	.04400
1300	1.09981	1.72665	.62629	.11026	.14826	.03745
1400	1.09222	1.71643	.62370	.09512	.12783	.03220
1500	1.08609	1.70820	.62164	.08274	.11116	.02795
2000	1.06816	1.68409	.61558	.04537	.06108	.01536
2500	1.06013	1.67326	.61284	.02789	.03780	.00962
3000	1.05594	1.66757	.61139	.01854	.02539	.00661
4000	1.05204	1.66214	.60992	.00958	.01359	.00383
5000	1.05037	1.65972	.60920	.00574	.00864	.00275

T°K	$\frac{C^{\circ}_{\text{SnD}} - C^{\circ}_{\text{SnH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{SnT}} - C^{\circ}_{\text{SnH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{SnT}} - C^{\circ}_{\text{SnD}}}{\text{R}}$	$\frac{S^{\circ}_{\text{SnD}} - S^{\circ}_{\text{SnH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{SnT}} - S^{\circ}_{\text{SnH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{SnT}} - S^{\circ}_{\text{SnD}}}{\text{R}}$
	R	R	R	R	R	R
100	-.00008	.00019	.00027	.69266	1.09859	.40593
200	.01925	.05789	.03864	.69536	1.10868	.41332
300	.10744	.21622	.10878	.71826	1.16142	.44316
400	.19253	.32789	.13536	.76181	1.24096	.47915
500	.23094	.36152	.13058	.80973	1.31892	.50919
600	.23396	.34901	.11505	.85249	1.38418	.53169
700	.21939	.31754	.09815	.88760	1.43575	.54815
800	.19837	.28136	.08299	.91556	1.47579	.56023
900	.17640	.24667	.07027	.93764	1.50690	.56926
1000	.15585	.21565	.05980	.95515	1.53124	.57609
1100	.13752	.18876	.05124	.96912	1.55050	.58138
1200	.12154	.16577	.04423	.98039	1.56592	.58553
1300	.10775	.14619	.03844	.98955	1.57839	.58884
1400	.09588	.12952	.03364	.99710	1.58860	.59150
1500	.08566	.11528	.02962	1.00335	1.59704	.59369
2000	.05174	.06860	.01686	1.02279	1.62301	.60022
2500	.03389	.04432	.01043	1.03224	1.63546	.60322
3000	.02349	.03021	.00672	1.03740	1.64218	.60478
4000	.01255	.01529	.00274	1.04246	1.64855	.60609
5000	.00716	.00784	.00068	1.04463	1.65108	.60645

Table 3.29

T °K	$\frac{F^{\circ}_{\text{PbH}} - F^{\circ}_{\text{PbD}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{PbH}} - F^{\circ}_{\text{PbT}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{PbD}} - F^{\circ}_{\text{PbT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{PbH}} - H^{\circ}_{\text{PbD}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{PbH}} - H^{\circ}_{\text{PbT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{PbD}} - H^{\circ}_{\text{PbT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	3.89842	5.72313	1.82461	3.20758	4.62815	1.42047
200	2.29504	3.41072	1.11563	1.60066	2.30338	.70267
300	1.76506	2.65141	.88632	1.04455	1.48588	.44130
400	1.50946	2.29011	.78063	.74308	1.04229	.29919
500	1.36571	2.08961	.72388	.55128	.76433	.21303
600	1.27741	1.96769	.69026	.42144	.57930	.15784
700	1.21968	1.88859	.66890	.33034	.45122	.12087
800	1.18009	1.83464	.65453	.26458	.35975	.09515
900	1.15187	1.79633	.64445	.21591	.29258	.07666
1000	1.13111	1.76824	.63712	.17909	.24206	.06296
1100	1.11543	1.74706	.63162	.15067	.20326	.05258
1200	1.10331	1.73073	.62741	.12834	.17289	.04454
1300	1.09378	1.71789	.62410	.11053	.14875	.03821
1400	1.08613	1.70760	.62146	.09612	.12925	.03312
1500	1.07991	1.69925	.61933	.08431	.11331	.02899
2000	1.06128	1.67420	.61292	.04848	.06515	.01667
2500	1.05249	1.66238	.60989	.03151	.04250	.01099
3000	1.04764	1.65581	.60817	.02231	.03027	.00796
4000	1.04264	1.64899	.60634	.01334	.01846	.00511
5000	1.04015	1.64549	.60534	.00942	.01339	.00397

T °K	$\frac{C^{\circ}_{\text{PbD}} - C^{\circ}_{\text{PbH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{PbT}} - C^{\circ}_{\text{PbH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{PbT}} - C^{\circ}_{\text{PbD}}}{\text{R}}$	$\frac{S^{\circ}_{\text{PbD}} - S^{\circ}_{\text{PbH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{PbT}} - S^{\circ}_{\text{PbH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{PbT}} - S^{\circ}_{\text{PbD}}}{\text{R}}$
	R	R	R	R	R	R
100	— .00005	.00036	.00041	.69084	1.09498	.40414
200	.02382	.06771	.04389	.69438	1.10734	.41296
300	.11747	.23025	.11278	.72051	1.16553	.44502
400	.19715	.33136	.13421	.76638	1.24782	.48144
500	.22730	.35359	.12629	.81443	1.32528	.51085
600	.22441	.33397	.10956	.85597	1.38839	.53242
700	.20673	.29924	.09251	.88934	1.43737	.54803
800	.18454	.26221	.07767	.91551	1.47489	.55938
900	.16252	.22792	.06540	.93596	1.50375	.56779
1000	.14251	.19791	.05540	.95202	1.52618	.57416
1100	.12497	.17227	.04730	.96476	1.54380	.57904
1200	.10986	.15055	.04069	.97497	1.55784	.58287
1300	.09695	.13221	.03526	.98325	1.56914	.58589
1400	.08590	.11666	.03076	.99001	1.57835	.58834
1500	.07645	.10344	.02699	.99560	1.58594	.59034
2000	.04527	.06035	.01508	1.01280	1.60905	.59625
2500	.02891	.03797	.00906	1.02098	1.61988	.59890
3000	.01935	.02490	.00555	1.02533	1.62554	.60021
4000	.00912	.01086	.00174	1.02930	1.63053	.60123
5000	.00391	.00360	— .00031	1.03073	1.63210	.60137

Table 3.30

T°K	$\frac{F^\circ_{\text{NH}} - F^\circ_{\text{ND}}}{\text{RT}}$	$\frac{F^\circ_{\text{NH}} - F^\circ_{\text{NT}}}{\text{RT}}$	$\frac{F^\circ_{\text{ND}} - F^\circ_{\text{NT}}}{\text{RT}}$	$\frac{H^\circ_{\text{NH}} - H^\circ_{\text{ND}}}{\text{RT}}$	$\frac{H^\circ_{\text{NH}} - H^\circ_{\text{NT}}}{\text{RT}}$	$\frac{H^\circ_{\text{ND}} - H^\circ_{\text{NT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	6.88074	9.96228	3.08144	6.16000	8.80803	2.64793
200	3.80060	5.55810	1.75745	3.08027	4.40432	1.32400
300	2.77385	4.09006	1.31618	2.05339	2.93547	.88205
400	2.26068	3.35681	1.09610	1.53820	2.19596	.65773
500	1.95363	2.91906	.96541	1.22431	1.74194	.51761
600	1.75057	2.63080	.88021	1.00842	1.42759	.41915
700	1.60772	2.42912	.82139	.84790	1.19342	.34551
800	1.50299	2.28212	.77912	.72268	1.01131	.28862
900	1.42388	2.17170	.74781	.62218	.86600	.24381
1000	1.36273	2.08679	.72405	.54004	.74805	.20800
1100	1.31454	2.02017	.70562	.47209	.65117	.17907
1200	1.27597	1.96706	.69109	.41534	.57080	.15546
1300	1.24466	1.92411	.67945	.36757	.50357	.13600
1400	1.21895	1.88893	.66998	.32711	.44692	.11981
1500	1.19758	1.85977	.66218	.29258	.39882	.10623
2000	1.13087	1.76919	.63831	.17900	.24212	.06311
2500	1.09796	1.72475	.62679	.11954	.16106	.04152
3000	1.07947	1.69987	.62040	.08518	.11453	.02935
4000	1.06053	1.67442	.61389	.04967	.06672	.01705
5000	1.05144	1.66221	.61077	.03303	.04441	.01138

T°K	$\frac{C^\circ_{\text{ND}} - C^\circ_{\text{NH}}}{\text{R}}$	$\frac{C^\circ_{\text{NT}} - C^\circ_{\text{NH}}}{\text{R}}$	$\frac{C^\circ_{\text{NT}} - C^\circ_{\text{ND}}}{\text{R}}$	$\frac{S^\circ_{\text{ND}} - S^\circ_{\text{NH}}}{\text{R}}$	$\frac{S^\circ_{\text{NT}} - S^\circ_{\text{NH}}}{\text{R}}$	$\frac{S^\circ_{\text{NT}} - S^\circ_{\text{ND}}}{\text{R}}$
	R	R	R	R	R	R
100	-.00108	-.00130	-.00022	.72074	1.15426	.43352
200	-.00024	-.00015	.00009	.72034	1.15379	.43345
300	.00182	.00754	.00572	.72046	1.15460	.43414
400	.01603	.04345	.02742	.72249	1.16085	.43836
500	.04930	.10798	.05868	.72932	1.17712	.44780
600	.09341	.17977	.08636	.74215	1.20321	.46106
700	.13604	.24056	.10452	.75983	1.23570	.47587
800	.16968	.28302	.11334	.78031	1.27081	.49050
900	.19223	.30744	.11521	.80170	1.30571	.50401
1000	.20467	.31730	.11263	.82268	1.33873	.51605
1100	.20915	.31662	.10747	.84245	1.36901	.52656
1200	.20787	.30890	.10103	.86063	1.39627	.53564
1300	.20270	.29681	.09411	.87708	1.42053	.54345
1400	.19509	.28227	.08718	.89184	1.44201	.55017
1500	.18607	.26659	.08052	.90500	1.46096	.55596
2000	.13816	.19206	.05390	.95186	1.52706	.57520
2500	.10057	.13772	.03715	.97842	1.56370	.58528
3000	.07430	.10084	.02654	.99429	1.58533	.59104
4000	.04283	.05749	.01466	1.01085	1.60770	.59685
5000	.02584	.03438	.00854	1.01840	1.61780	.59940

Table 3.31

$T^{\circ}\text{K}$	$\frac{F^{\circ}_{\text{PH}} - F^{\circ}_{\text{PD}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{PH}} - F^{\circ}_{\text{PT}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{PD}} - F^{\circ}_{\text{PT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{PH}} - H^{\circ}_{\text{PD}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{PH}} - H^{\circ}_{\text{PT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{PD}} - H^{\circ}_{\text{PT}}}{\text{RT}}$
100	5.50287	8.00503	2.50226	4.79971	6.87904	2.07943
200	3.10298	4.56551	1.46258	2.39986	3.43912	1.03931
300	2.30333	3.42026	1.11697	1.59731	2.28423	.68696
400	1.90535	2.85255	.94723	1.18649	1.68624	.49978
500	1.67030	2.51980	.84952	.92739	1.30666	.37929
600	1.51822	2.30641	.78820	.74491	1.04037	.29547
700	1.41407	2.16150	.74744	.60911	.84410	.23500
800	1.33983	2.05894	.71912	.50502	.69534	.19033
900	1.28523	1.98396	.69874	.42374	.58036	.15663
1000	1.24405	1.92767	.68363	.35936	.49012	.13077
1100	1.21231	1.88445	.67215	.30773	.41830	.11058
1200	1.18739	1.85062	.66324	.26585	.36044	.09460
1300	1.16751	1.82370	.65620	.23154	.31328	.08175
1400	1.15142	1.80195	.65054	.20315	.27445	.07131
1500	1.13824	1.78415	.64591	.17943	.24215	.06272
2000	1.09822	1.73018	.63197	.10481	.14136	.03656
2500	1.07923	1.70450	.62528	.06787	.09208	.02422
3000	1.06884	1.69035	.62152	.04723	.06484	.01762
4000	1.05851	1.67596	.61745	.02652	.03793	.01141
5000	1.05374	1.66893	.61520	.01705	.02599	.00895

$T^{\circ}\text{K}$	$\frac{C^{\circ}_{\text{PD}} - C^{\circ}_{\text{PH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{PT}} - C^{\circ}_{\text{PH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{PT}} - C^{\circ}_{\text{PD}}}{\text{R}}$	$\frac{S^{\circ}_{\text{PD}} - S^{\circ}_{\text{PH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{PT}} - S^{\circ}_{\text{PH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{PD}} - S^{\circ}_{\text{PT}}}{\text{R}}$
100	-.00031	-.00037	-.00006	.70315	1.12598	.42283
200	.00085	.00481	.00396	.70312	1.12638	.42326
300	.02061	.05794	.03733	.70602	1.13604	.43002
400	.07594	.16105	.08511	.71886	1.16631	.44745
500	.14098	.25750	.11652	.74292	1.21314	.47022
600	.19031	.31817	.12786	.77332	1.26604	.49272
700	.21766	.34386	.12620	.80497	1.31740	.51243
800	.22700	.34509	.11809	.83481	1.36361	.52880
900	.22441	.33191	.10750	.86149	1.40360	.54211
1000	.21490	.31142	.09652	.88468	1.43755	.55287
1100	.20188	.28800	.08612	.90457	1.46614	.56157
1200	.18752	.26417	.07665	.92153	1.49018	.56865
1300	.17303	.24126	.06823	.93596	1.51041	.57445
1400	.15910	.21991	.06081	.94827	1.52749	.57922
1500	.14608	.20039	.05431	.95880	1.54199	.58319
2000	.09620	.12810	.03190	.99341	1.58882	.59541
2500	.06603	.08552	.01949	1.01136	1.61243	.60107
3000	.04727	.05922	.01195	1.02160	1.62551	.60391
4000	.02658	.03001	.00343	1.03200	1.63804	.60604
5000	.01608	.01483	-.00125	1.03669	1.64294	.60625

Table 3.32

T°K	$\frac{F^\circ_{\text{BiH}} - F^\circ_{\text{BiD}}}{\text{RT}}$	$\frac{F^\circ_{\text{BiH}} - F^\circ_{\text{BiT}}}{\text{RT}}$	$\frac{F^\circ_{\text{BiD}} - F^\circ_{\text{BiT}}}{\text{RT}}$	$\frac{H^\circ_{\text{BiH}} - H^\circ_{\text{BiD}}}{\text{RT}}$	$\frac{H^\circ_{\text{BiH}} - H^\circ_{\text{BiT}}}{\text{RT}}$	$\frac{H^\circ_{\text{BiD}} - H^\circ_{\text{BiT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	4.16797	6.12531	1.95734	3.48083	5.03085	1.55002
200	2.42777	3.61085	1.18308	1.73867	2.50873	.77006
300	1.85069	2.78097	.93028	1.14267	1.63363	.49096
400	1.56961	2.38144	.81184	.82266	1.16095	.33830
500	1.40958	2.15684	.74726	.61770	.86165	.24395
600	1.31014	2.01875	.70861	.47701	.65945	.18244
700	1.24456	1.92837	.68381	.37690	.51757	.14067
800	1.19924	1.86630	.66705	.30374	.41508	.11133
900	1.16678	1.82201	.65523	.24908	.33915	.09007
1000	1.14279	1.78939	.64660	.20739	.28163	.07424
1100	1.12461	1.76472	.64011	.17503	.23720	.06217
1200	1.11050	1.74563	.63513	.14946	.20226	.05280
1300	1.09938	1.73059	.63121	.12897	.17436	.04539
1400	1.09045	1.71853	.62808	.11235	.15178	.03943
1500	1.08319	1.70871	.62552	.09869	.13326	.03457
2000	1.06132	1.67917	.61786	.05702	.07706	.02005
2500	1.05097	1.66516	.61419	.03718	.05047	.01329
3000	1.04523	1.65735	.61212	.02636	.03605	.00969
4000	1.03933	1.64921	.60987	.01578	.02209	.00630
5000	1.03637	1.64500	.60863	.01116	.01609	.00493

T°K	$\frac{C^\circ_{\text{BiD}} - C^\circ_{\text{BiH}}}{\text{R}}$	$\frac{C^\circ_{\text{BiT}} - C^\circ_{\text{BiH}}}{\text{R}}$	$\frac{C^\circ_{\text{BiT}} - C^\circ_{\text{BiD}}}{\text{R}}$	$\frac{S^\circ_{\text{BiD}} - S^\circ_{\text{BiH}}}{\text{R}}$	$\frac{S^\circ_{\text{BiT}} - S^\circ_{\text{BiH}}}{\text{R}}$	$\frac{S^\circ_{\text{BiT}} - S^\circ_{\text{BiD}}}{\text{R}}$
	R	R	R	R	R	R
100	-.00008	.00007	.00015	.68714	1.09446	.40732
200	.01461	.04629	.03168	.68910	1.10212	.41302
300	.09263	.19287	.10024	.70802	1.14734	.43932
400	.17691	.30888	.13197	.74695	1.22049	.47354
500	.22017	.35152	.13135	.79188	1.29519	.50331
600	.22827	.34617	.11790	.83313	1.35930	.52617
700	.21734	.31913	.10179	.86766	1.41080	.54314
800	.19856	.28530	.08674	.89550	1.45122	.55572
900	.17786	.25167	.07381	.91770	1.48286	.56516
1000	.15794	.22096	.06302	.93540	1.50776	.57236
1100	.13985	.19397	.05412	.94958	1.52752	.57794
1200	.12389	.17064	.04675	.96104	1.54337	.58233
1300	.10998	.15063	.04065	.97041	1.55623	.58582
1400	.09793	.13348	.03555	.97810	1.56675	.58865
1500	.08750	.11876	.03126	.98450	1.57545	.59095
2000	.05246	.07000	.01754	1.00430	1.60211	.59781
2500	.03371	.04422	.01051	1.01379	1.61469	.60090
3000	.02265	.02904	.00639	1.01887	1.62130	.60243
4000	.01071	.01258	.00187	1.02355	1.62712	.60357
5000	.00461	.00404	-.00057	1.02521	1.62891	.60370

Table 3.33

T°K	$F_{OH}^{\circ} - F_{OD}^{\circ}$	$F_{OH}^{\circ} - F_{OT}^{\circ}$	$F_{OD}^{\circ} - F_{OT}^{\circ}$	$H_{OH}^{\circ} - H_{OD}^{\circ}$	$H_{OH}^{\circ} - H_{OT}^{\circ}$	$H_{OD}^{\circ} - H_{OT}^{\circ}$
	RT	RT	RT	RT	RT	RT
100	7.85280	11.37629	3.52349	7.16830	10.27180	3.10350
200	4.27679	6.25094	1.97415	3.56790	5.11481	1.54691
300	3.08831	4.54709	1.45878	2.37541	3.40551	1.03010
400	2.49470	3.69619	1.20148	1.77987	2.55029	.77041
500	2.13905	3.18699	1.04794	1.42042	2.03127	.61085
600	1.90290	2.84983	.94693	1.17639	1.67635	.49996
700	1.73568	2.61202	.87635	.99678	1.41382	.41705
800	1.61204	2.43710	.82505	.85722	1.20965	.35242
900	1.51780	2.30443	.78663	.74487	1.04578	.30091
1000	1.44425	2.20141	.75716	.65236	.91155	.25919
1100	1.38581	2.11990	.73410	.57503	.80006	.22504
1200	1.33866	2.05442	.71578	.50975	.70657	.19684
1300	1.30010	2.00108	.70096	.45416	.62752	.17334
1400	1.26822	1.95710	.68887	.40656	.56019	.15362
1500	1.24161	1.92047	.67885	.36553	.50250	.13696
2000	1.15757	1.80532	.64774	.22734	.31062	.08327
2500	1.11565	1.74805	.63240	.15261	.20861	.05600
3000	1.09206	1.71573	.62368	.10846	.14906	.04061
4000	1.06816	1.68258	.61442	.06165	.08689	.02524
5000	1.05712	1.66672	.60961	.03894	.05740	.01847

T°K	$C_{OD}^{\circ} - C_{OH}^{\circ}$	$C_{OT}^{\circ} - C_{OH}^{\circ}$	$C_{OT}^{\circ} - C_{OD}^{\circ}$	$S_{OD}^{\circ} - S_{OH}^{\circ}$	$S_{OT}^{\circ} - S_{OH}^{\circ}$	$S_{OT}^{\circ} - S_{OD}^{\circ}$
	R	R	R	R	R	R
100	.06331	.08144	.01813	.68450	1.10449	.41999
200	.01536	.02004	.00468	.70889	1.13613	.42724
300	.00619	.01012	.00393	.71290	1.14158	.42868
400	.00941	.02526	.01585	.71483	1.14590	.43107
500	.02815	.06858	.04043	.71863	1.15572	.43709
600	.06124	.12957	.06833	.72651	1.17348	.44697
700	.10062	.19206	.09144	.73890	1.19820	.45930
800	.13804	.24479	.10675	.75482	1.22745	.47263
900	.16856	.28329	.11473	.77293	1.25865	.48572
1000	.19055	.30757	.11702	.79189	1.28986	.49797
1100	.20441	.31979	.11538	.81078	1.31984	.50906
1200	.21146	.32271	.11125	.82891	1.34785	.51894
1300	.21318	.31891	.10573	.84594	1.37356	.52762
1400	.21105	.31056	.09951	.86166	1.39691	.53525
1500	.20619	.29922	.09303	.87608	1.41797	.54189
2000	.16633	.23026	.06393	.93023	1.49470	.56447
2500	.12771	.17130	.04359	.96304	1.53944	.57640
3000	.09868	.12859	.02991	.98360	1.56667	.58307
4000	.06258	.07620	.01362	1.00651	1.59569	.58918
5000	.04310	.04758	.00448	1.01818	1.60932	.59114

Table 3.34

T°K	F° SH	F° SD	F° SH	F° ST	F° SD	F° ST	H° SH	H° SD	H° SH	H° ST	H° SD	H° ST
	RT		RT		RT		RT		RT		RT	
100	6.19494		8.98382		2.78888		5.50713		7.89358		2.38645	
200	3.44366		5.04057		1.59691		2.74774		3.93906		1.19132	
300	2.52985		3.72926		1.19940		1.82722		2.61771		.79048	
400	2.07402		3.07712		1.00312		1.36263		1.94472		.58211	
500	1.80302		2.69149		.88847		1.07470		1.52382		.44912	
600	1.62584		2.44113		.81530		.87368		1.22944		.35577	
700	1.50292		2.26880		.76588		.72370		1.01094		.28724	
800	1.41419		2.14522		.73103		.60768		.84334		.23566	
900	1.34810		2.05376		.70565		.51596		.71202		.19605	
1000	1.29769		1.98436		.68667		.44236		.60755		.16519	
1100	1.25842		1.93053		.67209		.38258		.52334		.14074	
1200	1.22731		1.88805		.66073		.33355		.45472		.12116	
1300	1.20227		1.85395		.65168		.29298		.39821		.10523	
1400	1.18183		1.82622		.64439		.25907		.35125		.09218	
1500	1.16498		1.80337		.63840		.23053		.31185		.08133	
2000	1.11279		1.73306		.62029		.13909		.18656		.04749	
2500	1.08725		1.69892		.61167		.09272		.12351		.03079	
3000	1.07286		1.67984		.60697		.06640		.08780		.02139	
4000	1.05800		1.66033		.60233		.03956		.05131		.01175	
5000	1.05065		1.65091		.60025		.02709		.03418		.00708	

T°K	C° SD	C° SH	C° ST	C° SH	C° ST	C° SD	S° SD	S° SH	S° ST	S° SH	S° ST	S° SD
	R		R		R		R		R		R	
100	.01330		.01679		.00349		.68781		1.09024		.40243	
200	.01154		.01635		.00481		.69592		1.10151		.40559	
300	.01681		.04060		.02379		.70263		1.11155		.40892	
400	.05066		.11436		.06370		.71139		1.13240		.42101	
500	.10473		.20429		.09956		.72832		1.16767		.43935	
600	.15634		.27610		.11976		.75216		1.21169		.45953	
700	.19305		.31922		.12617		.77922		1.25786		.47864	
800	.21336		.33721		.12385		.80651		1.30188		.49537	
900	.22045		.33744		.11699		.83214		1.34174		.50960	
1000	.21849		.32666		.10817		.85533		1.37681		.52148	
1100	.21091		.30981		.09890		.87584		1.40719		.53135	
1200	.20018		.29010		.08992		.89376		1.43333		.53957	
1300	.18796		.26957		.08161		.90929		1.45574		.54645	
1400	.17532		.24936		.07404		.92276		1.47497		.55221	
1500	.16284		.23013		.06729		.93445		1.49152		.55707	
2000	.11091		.15421		.04330		.97370		1.54650		.57280	
2500	.07696		.10685		.02989		.99453		1.57541		.58088	
3000	.05500		.07696		.02196		1.00646		1.59204		.58558	
4000	.02995		.04363		.01368		1.01844		1.60902		.59058	
5000	.01681		.02662		.00981		1.02356		1.61673		.59317	

Table 3.35

T°K	$\frac{F_{FH}^{\circ} - F_{FD}^{\circ}}{RT}$	$\frac{F_{FH}^{\circ} - F_{FT}^{\circ}}{RT}$	$\frac{F_{FD}^{\circ} - F_{FT}^{\circ}}{RT}$	$\frac{H_{FH}^{\circ} - H_{FD}^{\circ}}{RT}$	$\frac{H_{FH}^{\circ} - H_{FT}^{\circ}}{RT}$	$\frac{H_{FD}^{\circ} - H_{FT}^{\circ}}{RT}$
	RT	RT	RT	RT	RT	RT
100	8.70772	12.58751	3.87979	7.99543	11.44897	3.45354
200	4.70981	6.86279	2.15298	3.99811	5.72495	1.72684
300	3.37708	4.95444	1.57737	2.66548	3.81664	1.15117
400	2.71073	4.00040	1.28967	1.99886	2.86123	.86237
500	2.31109	3.42861	1.11752	1.59746	2.28386	.68640
600	2.04519	3.04889	1.00369	1.32679	1.89200	.56520
700	1.85622	2.77988	.92366	1.12919	1.60413	.47494
800	1.71581	2.58082	.86502	.97655	1.38096	.40442
900	1.60811	2.42888	.82077	.85390	1.20167	.34777
1000	1.52354	2.31015	.78661	.75275	1.05422	.30147
1100	1.45589	2.21562	.75973	.66783	.93101	.26318
1200	1.40095	2.13919	.73824	.59567	.82692	.23125
1300	1.35579	2.07660	.72081	.53384	.73823	.20439
1400	1.31822	2.02474	.70652	.48049	.66214	.18165
1500	1.28668	1.98136	.69467	.43418	.59648	.16229
2000	1.18590	1.84365	.65775	.27565	.37439	.09874
2500	1.13469	1.77434	.63965	.18803	.25359	.06556
3000	1.10542	1.73495	.62954	.13561	.18197	.04637
4000	1.07513	1.69444	.61932	.07976	.10620	.02645
5000	1.06054	1.67510	.61456	.05276	.06971	.01695

T°K	$\frac{C_{FD}^{\circ} - C_{FH}^{\circ}}{RT}$	$\frac{C_{FT}^{\circ} - C_{FH}^{\circ}}{RT}$	$\frac{C_{FT}^{\circ} - C_{FD}^{\circ}}{RT}$	$\frac{S_{FD}^{\circ} - S_{FH}^{\circ}}{RT}$	$\frac{S_{FT}^{\circ} - S_{FH}^{\circ}}{RT}$	$\frac{S_{FT}^{\circ} - S_{FD}^{\circ}}{RT}$
	RT	RT	RT	RT	RT	RT
100	-.00161	-.00192	-.00031	.71228	1.13853	.42625
200	-.00039	-.00045	-.00006	.71169	1.13783	.42614
300	.00001	.00094	.00093	.71160	1.13781	.42621
400	.00301	.01180	.00879	.71188	1.13917	.42729
500	.01519	.04321	.02802	.71362	1.14475	.43113
600	.03995	.09383	.05388	.71840	1.15689	.43849
700	.07378	.15265	.07887	.72703	1.17574	.44871
800	.11013	.20857	.09844	.73926	1.19986	.46060
900	.14348	.25481	.11133	.75420	1.22720	.47300
1000	.17071	.28892	.11821	.77079	1.25593	.48514
1100	.19080	.31124	.12044	.78806	1.28460	.49654
1200	.20407	.32342	.11935	.80528	1.31227	.50699
1300	.21148	.32755	.11607	.82195	1.33837	.51642
1400	.21417	.32561	.11144	.83774	1.36261	.52487
1500	.21326	.31933	.10607	.85250	1.38487	.53237
2000	.18231	.26068	.07837	.91026	1.46927	.55901
2500	.14323	.20049	.05726	.94666	1.52075	.57409
3000	.11110	.15389	.04279	.96982	1.55298	.58316
4000	.06852	.09438	.02586	.99536	1.58824	.59288
5000	.04408	.06112	.01704	1.00779	1.60539	.59760

Table 3.36

T°K	$\frac{F^{\circ}_{\text{ClH}} - F^{\circ}_{\text{ClD}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{ClH}} - F^{\circ}_{\text{ClT}}}{\text{RT}}$	$\frac{F^{\circ}_{\text{ClD}} - F^{\circ}_{\text{ClT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{ClH}} - H^{\circ}_{\text{ClD}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{ClH}} - H^{\circ}_{\text{ClT}}}{\text{RT}}$	$\frac{H^{\circ}_{\text{ClD}} - H^{\circ}_{\text{ClT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	6.67090	9.70017	3.02927	5.96879	8.58222	2.61343
200	3.68645	5.40899	1.72254	2.98450	4.29119	1.30669
300	2.69166	3.97882	1.28716	1.98925	2.85883	.86958
400	2.19471	3.26529	1.07058	1.48844	2.13370	.64526
500	1.89797	2.84085	.94288	1.18090	1.68414	.50324
600	1.70256	2.56302	.86046	.96758	1.37064	.40306
700	1.56592	2.37009	.80417	.80829	1.13693	.32864
800	1.46641	2.23058	.76417	.68422	.95602	.27180
900	1.39174	2.12656	.73482	.58511	.81271	.22760
1000	1.33441	2.04712	.71271	.50471	.69746	.19275
1100	1.28949	1.98519	.69570	.43872	.60364	.16492
1200	1.25374	1.93608	.68234	.38407	.52648	.14241
1300	1.22485	1.89654	.67169	.33840	.46242	.12402
1400	1.20122	1.86430	.66308	.29997	.40883	.10886
1500	1.18166	1.83767	.65601	.26741	.36363	.09622
2000	1.12104	1.75553	.63449	.16168	.21824	.05656
2500	1.09142	1.71562	.62420	.10721	.14422	.03701
3000	1.07487	1.69338	.61851	.07600	.10208	.02608
4000	1.05805	1.67078	.61273	.04389	.05897	.01508
5000	1.05006	1.66004	.60998	.02881	.03883	.01002

T°K	$\frac{C^{\circ}_{\text{ClD}} - C^{\circ}_{\text{ClH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{ClT}} - C^{\circ}_{\text{ClH}}}{\text{R}}$	$\frac{C^{\circ}_{\text{ClT}} - C^{\circ}_{\text{ClD}}}{\text{R}}$	$\frac{S^{\circ}_{\text{ClD}} - S^{\circ}_{\text{ClH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{ClT}} - S^{\circ}_{\text{ClH}}}{\text{R}}$	$\frac{S^{\circ}_{\text{ClT}} - S^{\circ}_{\text{ClD}}}{\text{R}}$
	R	R	R	R	R	R
100	-.00040	-.00048	-.00008	.70210	1.11794	.41584
200	-.00003	.00047	.00050	.70195	1.11781	.41586
300	.00430	.01671	.01241	.70240	1.11998	.41758
400	.02790	.07348	.04558	.70627	1.13160	.42533
500	.07312	.15629	.08317	.71707	1.15670	.43963
600	.12459	.23470	.11011	.73498	1.19237	.45739
700	.16819	.29191	.12372	.75762	1.23316	.47554
800	.19824	.32531	.12707	.78220	1.27457	.49237
900	.21503	.33904	.12401	.80663	1.31384	.50721
1000	.22126	.33873	.11747	.82969	1.34965	.51996
1100	.22001	.32936	.10935	.85077	1.38156	.53079
1200	.21387	.31466	.10079	.86968	1.40961	.53993
1300	.20478	.29717	.09239	.88646	1.43412	.54766
1400	.19413	.27861	.08448	.90124	1.45546	.55422
1500	.18282	.26000	.07718	.91425	1.47405	.55980
2000	.13045	.18040	.04995	.95937	1.53729	.57792
2500	.09329	.12716	.03387	.98421	1.57140	.58719
3000	.06847	.09248	.02401	.99888	1.59130	.59242
4000	.03977	.05297	.01320	1.01416	1.61182	.59766
5000	.02474	.03247	.00773	1.02125	1.62120	.59995

Table 3.37

T°K	$\frac{F^\circ_{\text{BrH}} - F^\circ_{\text{BrD}}}{\text{RT}}$	$\frac{F^\circ_{\text{BrH}} - F^\circ_{\text{BrT}}}{\text{RT}}$	$\frac{F^\circ_{\text{BrD}} - F^\circ_{\text{BrT}}}{\text{RT}}$	$\frac{H^\circ_{\text{BrH}} - H^\circ_{\text{BrD}}}{\text{RT}}$	$\frac{H^\circ_{\text{BrH}} - H^\circ_{\text{BrT}}}{\text{RT}}$	$\frac{H^\circ_{\text{BrD}} - H^\circ_{\text{BrT}}}{\text{RT}}$
	RT	RT	RT	RT	RT	RT
100	6.08559	8.87556	2.78997	5.39161	7.77066	2.37905
200	3.38975	4.99021	1.60046	2.69587	3.88523	1.18936
300	2.49124	3.69573	1.20448	1.79604	2.58533	.78928
400	2.04303	3.05165	1.00863	1.33995	1.92014	.58020
500	1.77664	2.67115	.89451	1.05600	1.50217	.44617
600	1.60265	2.42459	.82195	.85708	1.20913	.35206
700	1.48220	2.25532	.77311	.70845	.99162	.28316
800	1.39542	2.13425	.73883	.59346	.82495	.23149
900	1.33097	2.04492	.71395	.50266	.69465	.19199
1000	1.28191	1.97728	.69537	.42991	.59121	.16130
1100	1.24380	1.92499	.68118	.37094	.50806	.13711
1200	1.21366	1.88378	.67012	.32267	.44043	.11776
1300	1.18945	1.85077	.66133	.28277	.38487	.10211
1400	1.16976	1.82400	.65425	.24951	.33879	.08929
1500	1.15352	1.80197	.64846	.22155	.30021	.07867
2000	1.10360	1.73455	.63096	.13236	.17815	.04580
2500	1.07939	1.70204	.62265	.08746	.11726	.02980
3000	1.06590	1.68397	.61806	.06209	.08303	.02093
4000	1.05208	1.66552	.61344	.03640	.04846	.01206
5000	1.04537	1.65661	.61124	.02459	.03257	.00798

T°K	$\frac{C^\circ_{\text{BrD}} - C^\circ_{\text{BrH}}}{\text{R}}$	$\frac{C^\circ_{\text{BrT}} - C^\circ_{\text{BrH}}}{\text{R}}$	$\frac{C^\circ_{\text{BrT}} - C^\circ_{\text{BrD}}}{\text{R}}$	$\frac{S^\circ_{\text{BrD}} - S^\circ_{\text{BrH}}}{\text{R}}$	$\frac{S^\circ_{\text{BrT}} - S^\circ_{\text{BrH}}}{\text{R}}$	$\frac{S^\circ_{\text{BrD}} - S^\circ_{\text{BrT}}}{\text{R}}$
	R	R	R	R	R	R
100	-.00030	-.00035	-.00005	.69399	1.10491	.41092
200	.00017	.00201	.00184	.69388	1.10497	.41109
300	.01081	.03611	.02530	.69520	1.11040	.41520
400	.05091	.12075	.06984	.70308	1.13152	.42844
500	.10958	.21682	.10724	.72064	1.16898	.44834
600	.16331	.29008	.12677	.74557	1.21545	.46988
700	.20029	.33200	.13171	.77376	1.26371	.48995
800	.21984	.34772	.12788	.80195	1.30930	.50735
900	.22582	.34553	.11971	.82831	1.35028	.52197
1000	.22268	.33256	.10988	.85200	1.38608	.53408
1100	.21405	.31387	.09982	.87285	1.41692	.54407
1200	.20244	.29268	.09024	.89099	1.44334	.55235
1300	.18951	.27097	.08146	.90669	1.46590	.55921
1400	.17630	.24985	.07355	.92025	1.48521	.56496
1500	.16340	.22991	.06651	.93197	1.50176	.56979
2000	.11052	.15222	.04170	.97123	1.55640	.58517
2500	.07643	.10429	.02786	.99194	1.58478	.59284
3000	.05455	.07414	.01959	1.00381	1.60094	.59713
4000	.02977	.04047	.01070	1.01568	1.61706	.60138
5000	.01681	.02308	.00627	1.02079	1.62404	.60325

Table 3. 38

T°K	$\frac{F_{HI}^{\circ} - F_{DI}^{\circ}}{RT}$	$\frac{F_{HI}^{\circ} - F_{TI}^{\circ}}{RT}$	$\frac{F_{DI}^{\circ} - F_{TI}^{\circ}}{RT}$	$\frac{H_{HI}^{\circ} - H_{DI}^{\circ}}{RT}$	$\frac{H_{HI}^{\circ} - H_{TI}^{\circ}}{RT}$	$\frac{H_{DI}^{\circ} - H_{TI}^{\circ}}{RT}$
	RT	RT	RT	RT	RT	RT
100	5.42132	7.92027	2.49895	4.72884	6.81979	2.09095
200	3.05688	4.51043	1.45355	2.36434	3.40920	1.04486
300	2.26918	3.37552	1.10634	1.57292	2.26198	.68906
400	1.87754	2.81397	.93643	1.16627	1.66520	.49893
500	1.64679	2.48591	.83912	.90899	1.28564	.37665
600	1.49794	2.27630	.77836	.72789	1.01999	.29210
700	1.39631	2.13444	.73813	.59357	.82511	.23154
800	1.32404	2.03431	.71027	.49111	.67815	.18704
900	1.27098	1.96123	.69025	.41145	.56511	.15366
1000	1.23101	1.90646	.67545	.34863	.47675	.12812
1100	1.20022	1.86443	.66420	.29842	.40666	.10823
1200	1.17606	1.83154	.65548	.25784	.35033	.09249
1300	1.15678	1.80538	.64860	.22466	.30452	.07986
1400	1.14115	1.78422	.64307	.19725	.26684	.06959
1500	1.12835	1.76692	.63857	.17441	.23554	.06113
2000	1.08933	1.71436	.62503	.10270	.13794	.03524
2500	1.07062	1.68928	.61865	.06729	.09011	.02281
3000	1.06027	1.67542	.61515	.04752	.06348	.01596
4000	1.04973	1.66137	.61164	.02763	.03678	.00915
5000	1.04466	1.65463	.60997	.01854	.02458	.00604

T°K	$\frac{C_{DI}^{\circ} - C_{HI}^{\circ}}{R}$	$\frac{C_{TI}^{\circ} - C_{HI}^{\circ}}{R}$	$\frac{C_{TI}^{\circ} - C_{DI}^{\circ}}{R}$	$\frac{S_{DI}^{\circ} - S_{HI}^{\circ}}{R}$	$\frac{S_{TI}^{\circ} - S_{HI}^{\circ}}{R}$	$\frac{S_{TI}^{\circ} - S_{DI}^{\circ}}{R}$
	R	R	R	R	R	R
100	-.00014	-.00017	-.00003	.69247	1.10048	.40801
200	.00130	.00690	.00560	.69254	1.10123	.40869
300	.02530	.07063	.04533	.69625	1.11354	.41729
400	.08610	.18176	.09566	.71126	1.14877	.43751
500	.15227	.27736	.12509	.73780	1.20027	.46247
600	.19890	.33221	.13331	.77005	1.25631	.48626
700	.22223	.35129	.12906	.80274	1.30933	.50659
800	.22781	.34700	.11919	.83293	1.35616	.52323
900	.22225	.32982	.10757	.85953	1.39613	.53660
1000	.21064	.30669	.09605	.88238	1.42970	.54732
1100	.19625	.28168	.08543	.90180	1.45777	.55597
1200	.18105	.25701	.07596	.91822	1.48122	.56300
1300	.16611	.23378	.06767	.93212	1.50086	.56874
1400	.15200	.21245	.06045	.94391	1.51739	.57348
1500	.13897	.19315	.05418	.95394	1.53137	.57743
2000	.09009	.12316	.03307	.98662	1.57642	.58980
2500	.06105	.08286	.02181	1.00333	1.59917	.59584
3000	.04312	.05835	.01523	1.01276	1.61195	.59919
4000	.02337	.03165	.00828	1.02210	1.62458	.60248
5000	.01329	.01813	.00484	1.02612	1.63005	.60393

Table 4.01

T°K	$\mathcal{J}_{H_2} - \mathcal{J}_{HD}$	$\mathcal{J}_{H_2} - \mathcal{J}_{HT}$	$\mathcal{J}_{HD} - \mathcal{J}_{D_2}$	$\mathcal{J}_{HD} - \mathcal{J}_{HT}$	$\mathcal{J}_{HD} - \mathcal{J}_{DT}$	$\mathcal{J}_{D_2} - \mathcal{J}_{DT}$
	RT	RT	RT	RT	RT	RT
100	4.05871	5.45230	4.64281	1.39310	6.39784	1.75524
200	1.86674	2.53418	2.21467	.66720	3.05069	.83613
300	1.18794	1.61323	1.40782	.42513	1.93459	.52685
400	.85364	1.15783	1.00460	.30408	1.37650	.37196
500	.65344	.88499	.76263	.23146	1.04190	.27932
600	.51971	.70291	.60168	.18313	.81953	.21789
700	.42467	.57346	.48737	.14873	.66186	.17453
800	.35371	.47691	.40255	.12315	.54512	.14261
900	.29897	.40251	.33757	.10349	.45594	.11840
1000	.25568	.34377	.28666	.08805	.38626	.09963
1100	.22081	.29653	.24603	.07568	.33079	.08479
1200	.19228	.25795	.21310	.06564	.28596	.07289
1300	.16867	.22609	.18609	.05740	.24926	.06321
1400	.14890	.19946	.16366	.05053	.21890	.05526
1500	.13224	.17704	.14487	.04478	.19350	.04865
2000	.07828	.10480	.08516	.02651	.11319	.02805
2500	.05051	.06794	.05507	.01742	.07306	.01801
3000	.03457	.04698	.03800	.01240	.05047	.01249
4000	.01824	.02581	.02047	.00757	.02756	.00711
5000	.01063	.01625	.01211	.00562	.01692	.00482

T°K	$\mathcal{J}_{HT} - \mathcal{J}_{DT}$	$\mathcal{J}_{HT} - \mathcal{J}_{T_2}$	$\mathcal{J}_{DT} - \mathcal{J}_{T_2}$
	RT	RT	RT
100	5.00475	6.97752	1.97378
200	2.38350	3.31402	.93103
300	1.50946	2.09236	.58324
400	1.07243	1.48149	.40932
500	.81045	1.11553	.30529
600	.63642	.87281	.23657
700	.51314	.70131	.18832
800	.42199	.57489	.15304
900	.35246	.47881	.12648
1000	.29822	.40410	.10599
1100	.25511	.34492	.08991
1200	.22032	.29731	.07708
1300	.19188	.25848	.06669
1400	.16838	.22647	.05818
1500	.14874	.19978	.05112
2000	.08669	.11584	.02921
2500	.05565	.07408	.01848
3000	.03807	.05052	.01249
4000	.02001	.02636	.00649
5000	.01131	.01477	.00349

Table 4.02

T°K	$\mathcal{F}_{\text{LiH}} - \mathcal{F}_{\text{LiD}}$	$\mathcal{F}_{\text{LiH}} - \mathcal{F}_{\text{LiT}}$	$\mathcal{F}_{\text{LiD}} - \mathcal{F}_{\text{LiT}}$	$\mathcal{F}_{\text{NaH}} - \mathcal{F}_{\text{NaD}}$	$\mathcal{F}_{\text{NaH}} - \mathcal{F}_{\text{NaT}}$	$\mathcal{F}_{\text{NaD}} - \mathcal{F}_{\text{NaT}}$
	RT	RT	RT	RT	RT	RT
100	2.18032	3.05478	.87447	1.96607	2.78074	.81468
200	.94597	1.30949	.36353	.82036	1.13992	.31957
300	.53963	.73845	.19884	.45041	.61720	.16680
400	.34579	.46920	.12342	.28020	.38056	.10037
500	.23819	.32136	.08318	.18884	.25504	.06621
600	.17285	.23232	.05947	.13478	.18133	.04656
700	.13054	.17501	.04448	.10041	.13471	.03431
800	.10174	.13617	.03444	.07733	.10351	.02619
900	.08134	.10874	.02742	.06114	.08166	.02053
1000	.06639	.08871	.02233	.04936	.06580	.01645
1100	.05516	.07368	.01853	.04055	.05395	.01341
1200	.04650	.06212	.01564	.03379	.04486	.01108
1300	.03971	.05306	.01336	.02850	.03775	.00925
1400	.03429	.04583	.01155	.02429	.03208	.00780
1500	.02989	.03999	.01010	.02087	.02748	.00662
2000	.01680	.02256	.00577	.01068	.01376	.00309
2500	.01073	.01446	.00375	.00587	.00724	.00137
3000	.00744	.01004	.00262	.00318	.00356	.00039
4000	.00417	.00560	.00144			
5000	.00263	.00343	.00081			

T°K	$\mathcal{F}_{\text{KH}} - \mathcal{F}_{\text{KD}}$	$\mathcal{F}_{\text{KH}} - \mathcal{F}_{\text{KT}}$	$\mathcal{F}_{\text{KD}} - \mathcal{F}_{\text{KT}}$	$\mathcal{F}_{\text{RbH}} - \mathcal{F}_{\text{RbD}}$	$\mathcal{F}_{\text{RbH}} - \mathcal{F}_{\text{RbT}}$	$\mathcal{F}_{\text{RbD}} - \mathcal{F}_{\text{RbT}}$
	RT	RT	RT	RT	RT	RT
100	1.68552	2.36125	.67574	1.56777	2.21449	.64673
200	.70491	.95637	.25147	.61967	.85633	.23667
300	.39736	.52427	.12692	.32564	.44420	.11856
400	.26117	.33617	.07502	.19695	.26691	.06997
500	.19027	.23925	.04899	.13041	.17619	.04579
600	.14921	.18345	.03425	.09201	.12413	.03214
700	.12354	.14869	.02516	.06800	.09169	.02370
800	.10655	.12569	.01915	.05206	.07018	.01813
900	.09478	.10976	.01499	.04095	.05521	.01427
1000	.08631	.09831	.01201	.03293	.04439	.01147
1100	.08007	.08983	.00978	.02694	.03630	.00937
1200	.07535	.08342	.00807	.02236	.03010	.00775
1300	.07171	.07844	.00674	.01876	.02523	.00648
1400	.06887	.07453	.00567	.01590	.02135	.00545
1500	.06660	.07140	.00481	.01358	.01816	.00460
2000	.06036	.06257	.00223	.00660	.00853	.00194
2500	.05802	.05898	.00097	.00322	.00371	.00050
3000	.05723	.05745	.00023	.00124	.00077	

Table 4. 03

T°K	$\mathcal{J}_{\text{CsH}} - \mathcal{J}_{\text{CsD}}$	$\mathcal{J}_{\text{CsH}} - \mathcal{J}_{\text{CsT}}$	$\mathcal{J}_{\text{CsD}} - \mathcal{J}_{\text{CsT}}$	$\mathcal{J}_{\text{BeH}} - \mathcal{J}_{\text{BeD}}$	$\mathcal{J}_{\text{BeH}} - \mathcal{J}_{\text{BeT}}$	$\mathcal{J}_{\text{BeD}} - \mathcal{J}_{\text{BeT}}$
	RT	RT	RT	RT	RT	RT
100	1.48311	2.09243	.78543	3.43704	4.86082	1.42379
200	.57824	.79753	.30735	1.56715	2.19949	.63235
300	.30085	.40975	.16760	.94457	1.31440	.36984
400	.18081	.24480	.10803	.63624	.87829	.24206
500	.11918	.16097	.07702	.45605	.62550	.16946
600	.08377	.11307	.05867	.34105	.46549	.12445
700	.06166	.08330	.04680	.26336	.35818	.09483
800	.04700	.06358	.03861	.20865	.28305	.07441
900	.03678	.04988	.03267	.16880	.22860	.05981
1000	.02940	.03997	.02819	.13899	.18801	.04903
1100	.02387	.03257	.02472	.11617	.15703	.04087
1200	.01964	.02690	.02195	.09835	.13288	.03454
1300	.01631	.02244	.01969	.08419	.11373	.02956
1400	.01365	.01888	.01782	.07276	.09831	.02556
1500	.01148	.01597	.01625	.06340	.08569	.02230
2000	.00486	.00710	.01106	.03511	.04760	.01250
2500	.00153	.00262	.00815	.02165	.02949	.00786
3000				.01423	.01950	.00528
4000				.00672	.00933	.00262
5000				.00312	.00439	.00128

T°K	$\mathcal{J}_{\text{MgH}} - \mathcal{J}_{\text{MgD}}$	$\mathcal{J}_{\text{MgH}} - \mathcal{J}_{\text{MgT}}$	$\mathcal{J}_{\text{MgD}} - \mathcal{J}_{\text{MgT}}$	$\mathcal{J}_{\text{CaH}} - \mathcal{J}_{\text{CaD}}$	$\mathcal{J}_{\text{CaH}} - \mathcal{J}_{\text{CaT}}$	$\mathcal{J}_{\text{CaD}} - \mathcal{J}_{\text{CaT}}$
	RT	RT	RT	RT	RT	RT
100	2.60497	3.70039	1.09543	2.27037	3.22421	.95285
200	1.13694	1.59420	.45727	.96716	1.35212	.38447
300	.65264	.90409	.25146	.54157	.74744	.20555
400	.42028	.57731	.15704	.34183	.46817	.12610
500	.29040	.39691	.10652	.23272	.31756	.08465
600	.21102	.28769	.07668	.16725	.22800	.06059
700	.15933	.21705	.05773	.12522	.17086	.04550
800	.12398	.16898	.04502	.09679	.13236	.03546
900	.09885	.13493	.03609	.07671	.10526	.02845
1000	.08038	.10997	.02960	.06205	.08553	.02339
1100	.06644	.09118	.02475	.05104	.07073	.01961
1200	.05568	.07669	.02102	.04256	.05936	.01673
1300	.04721	.06528	.01808	.03590	.05044	.01447
1400	.04041	.05615	.01575	.03058	.04331	.01267
1500	.03489	.04873	.01385	.02625	.03753	.01122
2000	.01828	.02644	.00817	.01327	.02018	.00687
2500	.01038	.01581	.00544	.00708	.01195	.00484
3000	.00595	.00982	.00388	.00359	.00730	.00369
4000	.00126	.00342	.00218			

Table 4.04

T°K	$\frac{\mathcal{F}_{\text{SrH}} - \mathcal{F}_{\text{SrD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{SrH}} - \mathcal{F}_{\text{SrT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{SrD}} - \mathcal{F}_{\text{SrT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{BaH}} - \mathcal{F}_{\text{BaD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{BaH}} - \mathcal{F}_{\text{BaT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{BaD}} - \mathcal{F}_{\text{BaT}}}{\text{RT}}$
100	2.12084	3.01224	.89041	2.06348	2.92971	.86724
200	.89033	1.24216	.35134	.86155	1.20033	.33929
300	.49174	.67666	.18460	.47364	.65053	.17723
400	.30735	.41953	.11194	.29520	.40209	.10715
500	.20791	.28261	.07451	.19944	.27045	.07122
600	.14883	.20195	.05296	.14272	.19315	.05061
700	.11116	.15081	.03951	.10666	.14427	.03776
800	.08580	.11651	.03059	.08240	.11153	.02927
900	.06796	.09245	.02439	.06537	.08860	.02336
1000	.05497	.07498	.01992	.05296	.07195	.01910
1100	.04523	.06189	.01658	.04367	.05950	.01593
1200	.03775	.05185	.01403	.03653	.04995	.01351
1300	.03188	.04399	.01205	.03092	.04245	.01161
1400	.02718	.03770	.01046	.02644	.03648	.01012
1500	.02337	.03262	.00919	.02280	.03162	.00890
2000	.01197	.01739	.00538	.01188	.01711	.00529
2500	.00653	.01017	.00361	.00667	.01020	.00358
3000	.00347	.00611	.00262	.00370	.00631	.00265
4000	.00016	.00179	.00161	.00044	.00207	.00167

T°K	$\frac{\mathcal{F}_{\text{CuH}} - \mathcal{F}_{\text{CuD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{CuH}} - \mathcal{F}_{\text{CuT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{CuD}} - \mathcal{F}_{\text{CuT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{AgH}} - \mathcal{F}_{\text{AgD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{AgH}} - \mathcal{F}_{\text{AgT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{AgD}} - \mathcal{F}_{\text{AgT}}}{\text{RT}}$
100	3.57245	5.11181	1.53937	3.23072	4.62047	1.38976
200	1.61431	2.28654	.67224	1.43701	2.03483	.59783
300	.96300	1.34909	.38610	.84157	1.17995	.33838
400	.64202	.89089	.24888	.55050	.76648	.21600
500	.45607	.62836	.17230	.38387	.53271	.14885
600	.33850	.46407	.12558	.27973	.38817	.10846
700	.25977	.35496	.09519	.21058	.29304	.08247
800	.20473	.27918	.07446	.16249	.22734	.06485
900	.16491	.22461	.05971	.12775	.18017	.05243
1000	.13525	.18413	.04889	.10185	.14519	.04335
1100	.11265	.15337	.04073	.08200	.11852	.03653
1200	.09505	.12947	.03443	.06644	.09772	.03129
1300	.08111	.11057	.02947	.05397	.08112	.02717
1400	.06989	.09537	.02550	.04378	.06766	.02389
1500	.06073	.08298	.02226	.03535	.05655	.02122
2000	.03312	.04564	.01253	.00829	.02155	.01328
2500	.02007	.02797	.00791			
3000	.01292	.01823	.00532			
4000	.00573	.00829	.00257			
5000	.00232	.00342	.00111			

Table 4.05

T°K	$\mathcal{F}_{\text{AuH}} - \mathcal{F}_{\text{AuD}}$	$\mathcal{F}_{\text{AuH}} - \mathcal{F}_{\text{AuT}}$	$\mathcal{F}_{\text{AuD}} - \mathcal{F}_{\text{AuT}}$	$\mathcal{F}_{\text{ZnH}} - \mathcal{F}_{\text{ZnD}}$	$\mathcal{F}_{\text{ZnH}} - \mathcal{F}_{\text{ZnT}}$	$\mathcal{F}_{\text{ZnD}} - \mathcal{F}_{\text{ZnT}}$
	RT	RT	RT	RT	RT	RT
100	4.37693	6.32388	1.94706	2.87092	4.09421	1.22330
200	2.01441	2.91308	.89873	1.26278	1.77690	.51413
300	1.22736	1.77791	.55059	.73096	1.01505	.28410
400	.83613	1.21640	.38031	.47402	.65154	.17754
500	.60568	.88851	.28286	.32914	.44914	.12001
600	.45710	.67912	.22205	.23986	.32565	.08580
700	.35570	.53747	.18179	.18132	.24527	.06396
800	.28361	.43750	.15391	.14105	.19029	.04924
900	.23071	.36459	.13390	.11227	.15114	.03888
1000	.19087	.30993	.11908	.09102	.12234	.03133
1100	.16019	.26800	.10783	.07491	.10055	.02565
1200	.13610	.23518	.09910	.06241	.08367	.02127
1300	.11690	.20908	.09220	.05252	.07034	.01783
1400	.10134	.18797	.08665	.04457	.05962	.01506
1500	.08859	.17069	.08212	.03805	.05085	.01281
2000	.04970	.11815	.06847	.01810	.02401	.00593
2500	.03104	.09299	.06196	.00811	.01059	.00249
3000	.02068	.07898	.05831	.00211	.00249	.00039
4000	.01009	.06457	.05449			
5000	.00493	.05743	.05251			

T°K	$\mathcal{F}_{\text{CdH}} - \mathcal{F}_{\text{CdD}}$	$\mathcal{F}_{\text{CdH}} - \mathcal{F}_{\text{CdT}}$	$\mathcal{F}_{\text{CdD}} - \mathcal{F}_{\text{CdT}}$	$\mathcal{F}_{\text{HgH}} - \mathcal{F}_{\text{HgD}}$	$\mathcal{F}_{\text{HgH}} - \mathcal{F}_{\text{HgT}}$	$\mathcal{F}_{\text{HgD}} - \mathcal{F}_{\text{HgT}}$
	RT	RT	RT	RT	RT	RT
100	2.53242	3.60827	1.07576	2.32263	3.29968	.97542
200	1.09132	1.52993	.43857	.98457	1.37429	.38890
300	.61817	.85378	.23558	.54779	.75237	.20405
400	.39373	.53779	.14405	.34241	.46451	.12170
500	.26987	.36559	.09571	.22954	.30844	.07858
600	.19504	.26246	.06742	.16115	.21487	.05345
700	.14681	.19635	.04954	.11657	.15439	.03759
800	.11416	.15174	.03758	.08577	.11288	.02692
900	.09114	.12031	.02917	.06339	.08293	.01937
1000	.07440	.09744	.02304	.04643	.06037	.01379
1100	.06189	.08032	.01844	.03310	.04274	.00950
1200	.05232	.06719	.01486	.02227	.02848	.00610
1300	.04489	.05692	.01204	.01319	.01665	.00333
1400	.03900	.04876	.00976	.00544	.00655	.00101
1500	.03428	.04215	.00788			
2000	.02068	.02264	.00197			
2500	.01493	.01366				
3000	.01223	.00881				
4000	.01036	.00393				
5000	.01021	.00152				

Table 4.06

T°K	$\mathcal{J}_{\text{BH}} - \mathcal{J}_{\text{BD}}$	$\mathcal{J}_{\text{BH}} - \mathcal{J}_{\text{BT}}$	$\mathcal{J}_{\text{BD}} - \mathcal{J}_{\text{BT}}$	$\mathcal{J}_{\text{AIH}} - \mathcal{J}_{\text{AID}}$	$\mathcal{J}_{\text{AIH}} - \mathcal{J}_{\text{AIT}}$	$\mathcal{J}_{\text{AID}} - \mathcal{J}_{\text{AIT}}$
	RT	RT	RT	RT	RT	RT
100	3.80014	5.76045	1.96032	2.98767	4.25408	1.26642
200	1.74537	2.64199	.89663	1.32756	1.86813	.54058
300	1.06064	1.60343	.54279	.77700	1.08030	.30331
400	.71968	1.08812	.36845	.50883	.70070	.19189
500	.51807	.78560	.26754	.35615	.48718	.13104
600	.38742	.59125	.20385	.26131	.35587	.09457
700	.29776	.45904	.16129	.19874	.26990	.07117
800	.23373	.36530	.13158	.15553	.21088	.05536
900	.18654	.29668	.11014	.12456	.16876	.04421
1000	.15086	.24505	.09420	.10165	.13771	.03607
1100	.12330	.20535	.08206	.08429	.11425	.02997
1200	.10161	.17423	.07263	.07082	.09609	.02527
1300	.08426	.14941	.06516	.06019	.08176	.02159
1400	.07018	.12933	.05916	.05162	.07027	.01866
1500	.05862	.11287	.05427	.04465	.06091	.01627
2000	.02313	.06272	.03960	.02356	.03271	.00917
2500	.00592	.03864	.03272	.01342	.01925	.00584
3000				.00768	.01168	.00401
4000				.00148	.00361	.00214

T°K	$\mathcal{J}_{\text{InH}} - \mathcal{J}_{\text{InD}}$	$\mathcal{J}_{\text{InH}} - \mathcal{J}_{\text{InT}}$	$\mathcal{J}_{\text{InD}} - \mathcal{J}_{\text{InT}}$	$\mathcal{J}_{\text{TIH}} - \mathcal{J}_{\text{TID}}$	$\mathcal{J}_{\text{TIH}} - \mathcal{J}_{\text{TIT}}$	$\mathcal{J}_{\text{TID}} - \mathcal{J}_{\text{TIT}}$
	RT	RT	RT	RT	RT	RT
100	2.67306	3.80509	1.13204	2.50998	3.57375	1.06388
200	1.16647	1.63387	.46741	1.08181	1.51548	.43373
300	.66994	.92395	.25402	.61302	.84638	.23341
400	.43228	.58909	.15682	.39073	.53404	.14335
500	.29980	.40489	.10510	.26806	.36392	.09589
600	.21903	.29372	.07470	.19389	.26202	.06815
700	.16654	.22199	.05546	.14601	.19663	.05064
800	.13071	.17328	.04258	.11349	.15238	.03891
900	.10525	.13879	.03355	.09047	.12115	.03070
1000	.08657	.11357	.02701	.07366	.09834	.02470
1100	.07248	.09459	.02212	.06100	.08118	.02019
1200	.06160	.07996	.01836	.05127	.06797	.01671
1300	.05304	.06846	.01544	.04363	.05758	.01397
1400	.04618	.05926	.01309	.03752	.04925	.01175
1500	.04062	.05180	.01119	.03259	.04250	.00992
2000	.02389	.02940	.00552	.01785	.02205	.00422
2500	.01594	.01878	.00284	.01097	.01214	.00119
3000	.01150	.01283	.00134	.00722	.00640	

Table 4.07

T°K	$\frac{\mathcal{F}_{\text{CH}} - \mathcal{F}_{\text{CD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{CH}} - \mathcal{F}_{\text{CT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{CD}} - \mathcal{F}_{\text{CT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{SiH}} - \mathcal{F}_{\text{SiD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{SiH}} - \mathcal{F}_{\text{SiT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{SiD}} - \mathcal{F}_{\text{SiT}}}{\text{RT}}$
100	5.02265	7.18188	2.15914	3.71636	5.27465	1.55830
200	2.35203	3.34766	.99559	1.68889	2.37445	.67556
300	1.46261	2.07069	.60808	1.01517	1.41245	.39729
400	1.01852	1.43397	.41543	.68222	.94053	.25832
500	.75371	1.05564	.30192	.48831	.66871	.18041
600	.57975	.80850	.22875	.36504	.49783	.13179
700	.45849	.63733	.17884	.28220	.38396	.10187
800	.37047	.51381	.14333	.22411	.30472	.08082
900	.30464	.42195	.11731	.18171	.24765	.06594
1000	.25425	.35194	.09768	.15025	.20532	.05508
1100	.21488	.29748	.08260	.12625	.17323	.04699
1200	.18363	.25436	.07073	.10634	.14832	.04082
1300	.15842	.21969	.06127	.09271	.12793	.03597
1400	.13783	.19145	.05362	.08078	.11292	.03215
1500	.12085	.16815	.04731	.07106	.10014	.02909
2000	.06829	.09646	.02818	.04185	.06210	.02026
2500	.04269	.06171	.01903	.02817	.04465	.01648
3000	.02839	.04238	.01399	.02071	.03540	.01470
4000	.01380	.02280	.00900	.01331	.02662	.01333
5000	.00677	.01352	.00675	.00984	.02290	.01308

T°K	$\frac{\mathcal{F}_{\text{SnH}} - \mathcal{F}_{\text{SnD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{SnH}} - \mathcal{F}_{\text{SnT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{SnD}} - \mathcal{F}_{\text{SnT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{PbH}} - \mathcal{F}_{\text{PbD}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{PbH}} - \mathcal{F}_{\text{PbT}}}{\text{RT}}$	$\frac{\mathcal{F}_{\text{PbD}} - \mathcal{F}_{\text{PbT}}}{\text{RT}}$
100	2.93557	4.18441	1.24175	2.85986	4.07890	1.21895
200	1.29512	1.82069	.52203	1.25648	1.76649	.50997
300	.75208	1.04285	.28841	.72650	1.00718	.28066
400	.48919	.67118	.18023	.47090	.64588	.17497
500	.34082	.46425	.12202	.32715	.44538	.11822
600	.24954	.33828	.08757	.23885	.32346	.08460
700	.18991	.25665	.06574	.18112	.24436	.06324
800	.14912	.20111	.05111	.14153	.19041	.04887
900	.12015	.16185	.04092	.11331	.15210	.03879
1000	.09896	.13320	.03354	.09255	.12401	.03146
1100	.08303	.11173	.02806	.07687	.10283	.02596
1200	.07082	.09527	.02387	.06475	.08650	.02175
1300	.06125	.08242	.02063	.05522	.07366	.01844
1400	.05366	.07220	.01804	.04757	.06337	.01580
1500	.04753	.06397	.01598	.04135	.05502	.01367
2000	.02960	.03986	.00992	.02272	.02997	.00726
2500	.02157	.02903	.00718	.01393	.01815	.00423
3000	.01738	.02334	.00573	.00908	.01158	.00251
4000	.01348	.01791	.00426	.00408	.00476	.00068
5000	.01181	.01549	.00354	.00159	.00126	

Table 4.08

T°K	$\mathcal{J}_{\text{NH}} - \mathcal{J}_{\text{ND}}$	$\mathcal{J}_{\text{NH}} - \mathcal{J}_{\text{NT}}$	$\mathcal{J}_{\text{ND}} - \mathcal{J}_{\text{NT}}$	$\mathcal{J}_{\text{PH}} - \mathcal{J}_{\text{PD}}$	$\mathcal{J}_{\text{PH}} - \mathcal{J}_{\text{PT}}$	$\mathcal{J}_{\text{PD}} - \mathcal{J}_{\text{PT}}$
	RT	RT	RT	RT	RT	RT
100	5.84218	8.31805	2.47578	4.46431	6.36080	1.89660
200	2.76204	3.91387	1.15179	2.06442	2.92128	.85692
300	1.73529	2.44583	.71052	1.26477	1.77603	.51131
400	1.22212	1.71258	.49044	.86679	1.20832	.34157
500	.91507	1.27483	.35975	.63174	.87557	.24386
600	.71201	.98657	.27455	.47966	.66218	.18254
700	.56916	.78489	.21573	.37551	.51727	.14178
800	.46443	.63789	.17346	.30127	.41471	.11346
900	.38532	.52747	.14215	.24667	.33973	.09308
1000	.32417	.44256	.11839	.20549	.28344	.07797
1100	.27598	.37594	.09996	.17375	.24022	.06649
1200	.23741	.32283	.08543	.14883	.20639	.05758
1300	.20610	.27988	.07379	.12895	.17947	.05054
1400	.18039	.24470	.06432	.11286	.15772	.04488
1500	.15902	.21554	.05652	.09968	.13992	.04025
2000	.09231	.12496	.03265	.05966	.08595	.02631
2500	.05940	.08052	.02113	.04067	.06027	.01962
3000	.04091	.05564	.01474	.03028	.04612	.01586
4000	.02197	.03019	.00823	.01995	.03173	.01179
5000	.01288	.01798	.00511	.01518	.02470	.00954

T°K	$\mathcal{J}_{\text{BiH}} - \mathcal{J}_{\text{BiD}}$	$\mathcal{J}_{\text{BiH}} - \mathcal{J}_{\text{BiT}}$	$\mathcal{J}_{\text{BiD}} - \mathcal{J}_{\text{BiT}}$	$\mathcal{J}_{\text{OH}} - \mathcal{J}_{\text{OD}}$	$\mathcal{J}_{\text{OH}} - \mathcal{J}_{\text{OT}}$	$\mathcal{J}_{\text{OD}} - \mathcal{J}_{\text{OT}}$
	RT	RT	RT	RT	RT	RT
100	3.12941	4.48108	1.35168	6.81424	9.73206	2.91783
200	1.38921	1.96662	.57742	3.23823	4.60671	1.36849
300	.81213	1.13674	.32462	2.04975	2.90286	.85312
400	.53105	.73721	.20618	1.45614	2.05196	.59582
500	.37102	.51261	.14160	1.10049	1.54276	.44228
600	.27158	.37452	.10295	.86434	1.20560	.34127
700	.20600	.28414	.07815	.69712	.96779	.27069
800	.16068	.22207	.06139	.57348	.79287	.21939
900	.12822	.17778	.04957	.47924	.66020	.18097
1000	.10423	.14516	.04094	.40569	.55718	.15150
1100	.08605	.12049	.03445	.34725	.47567	.12844
1200	.07194	.10140	.02947	.30010	.41019	.11012
1300	.06082	.08636	.02555	.26154	.35685	.09530
1400	.05189	.07430	.02242	.22966	.31287	.08321
1500	.04463	.06448	.01986	.20305	.27624	.07319
2000	.02276	.03494	.01220	.11901	.16109	.04208
2500	.01241	.02093	.00853	.07709	.10382	.02674
3000	.00667	.01312	.00646	.05350	.07170	.01802
4000	.00077	.00498	.00421	.02960	.03835	.00876
5000		.00077	.00297	.01856	.02249	.00395

Table 4. 09

T°K	$\mathcal{J}_{SH}-\mathcal{J}_{SD}$ RT	$\mathcal{J}_{SH}-\mathcal{J}_{ST}$ RT	$\mathcal{J}_{SD}-\mathcal{J}_{ST}$ RT	$\mathcal{J}_{FH}-\mathcal{J}_{FD}$ RT	$\mathcal{J}_{FH}-\mathcal{J}_{FT}$ RT	$\mathcal{J}_{FD}-\mathcal{J}_{FT}$ RT
100	5.15638	7.33959	2.18322	7.66916	10.94328	3.27413
200	2.40510	3.39634	.99125	3.67125	5.21856	1.54732
300	1.49129	2.08503	.59374	2.33852	3.31021	.97171
400	1.03546	1.43289	.39746	1.67217	2.35617	.68401
500	.76446	1.04726	.28281	1.27253	1.78438	.51186
600	.58728	.79690	.20964	1.00663	1.40466	.39803
700	.46436	.62457	.16022	.81766	1.13565	.31800
800	.37563	.50099	.12537	.67725	.93659	.25936
900	.30954	.40953	.09999	.56955	.78465	.21511
1000	.25913	.34013	.08101	.48498	.66592	.18095
1100	.21986	.28630	.06643	.41733	.57139	.15407
1200	.18875	.24382	.05507	.36239	.49496	.13258
1300	.16371	.20972	.04602	.31723	.43237	.11515
1400	.14327	.18199	.03873	.27966	.38051	.10086
1500	.12642	.15914	.03274	.24812	.33713	.08901
2000	.07422	.08883	.01463	.14734	.19942	.05209
2500	.04869	.05469	.00601	.09613	.13011	.03399
3000	.03430	.03561	.00131	.06686	.09072	.02388
4000	.01944	.01610		.03657	.05021	.01366
5000	.01209	.00668		.02198	.03087	.00890

T°K	$\mathcal{J}_{CIH}-\mathcal{J}_{CID}$ RT	$\mathcal{J}_{CIH}-\mathcal{J}_{CIT}$ RT	$\mathcal{J}_{CID}-\mathcal{J}_{CIT}$ RT	$\mathcal{J}_{BrH}-\mathcal{J}_{BrD}$ RT	$\mathcal{J}_{BrH}-\mathcal{J}_{BrT}$ RT	$\mathcal{J}_{BrD}-\mathcal{J}_{BrT}$ RT
100	5.63234	8.05594	2.42361	5.04703	7.23133	2.18431
200	2.64789	3.76476	1.11688	2.35119	3.34598	.99480
300	1.65310	2.33459	.68150	1.45268	2.05150	.59882
400	1.15615	1.62106	.46492	1.00447	1.40742	.40297
500	.85941	1.19662	.33722	.73808	1.02692	.28885
600	.66400	.91879	.25480	.56409	.78036	.21629
700	.52736	.72586	.19851	.44364	.61109	.16745
800	.42785	.58635	.15851	.35686	.49002	.13317
900	.35318	.48233	.12916	.29241	.40069	.10829
1000	.29585	.40289	.10705	.24335	.33305	.08971
1100	.25093	.34096	.09004	.20524	.28076	.07552
1200	.21518	.29185	.07668	.17510	.23955	.06446
1300	.18629	.25231	.06603	.15089	.20654	.05567
1400	.16266	.22007	.05742	.13120	.17977	.04859
1500	.14310	.19344	.05035	.11496	.15774	.04280
2000	.08248	.11130	.02883	.06504	.09032	.02530
2500	.05286	.07139	.01854	.04083	.05781	.01699
3000	.03631	.04915	.01285	.02734	.03974	.01240
4000	.01949	.02655	.00707	.01352	.02129	.00778
5000	.01150	.01581	.00432	.00681	.01238	.00558

Table 4.10

T°K	$\frac{\mathcal{F}_{HI} - \mathcal{F}_{DI}}{RT}$	$\frac{\mathcal{F}_{HI} - \mathcal{F}_{TI}}{RT}$	$\frac{\mathcal{F}_{DI} - \mathcal{F}_{TI}}{RT}$
100	4.38276	6.27604	1.89329
200	2.01832	2.86620	.84789
300	1.23062	1.73129	.50068
400	.83898	1.16974	.33077
500	.60823	.84168	.23346
600	.45938	.63207	.17270
700	.35775	.49021	.13247
800	.28548	.39008	.10461
900	.23242	.31700	.08459
1000	.19245	.26223	.06979
1100	.16166	.22020	.05854
1200	.13750	.18731	.04982
1300	.11822	.16115	.04294
1400	.10259	.13999	.03741
1500	.08979	.12269	.03291
2000	.05077	.07013	.01937
2500	.03206	.04505	.01299
3000	.02171	.03119	.00949
4000	.01117	.01714	.00598
5000	.00610	.01040	.00431