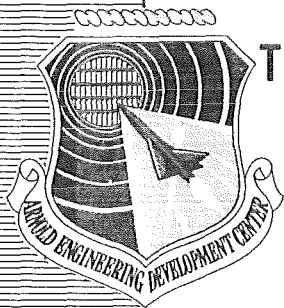


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W. S. Denfield C.2



**TABLES OF THERMODYNAMIC PROPERTIES OF NITROGEN
IN CHEMICAL EQUILIBRIUM
INCLUDING SECOND VIRIAL CORRECTIONS
FROM 2000°K TO 15,000°K**

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By

**Joseph Hilsenrath and Max Klein
National Bureau of Standards
Washington, D. C.**

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FOREWORD

The authors wish to express their appreciation for the assistance rendered by Mrs. Ruth Varner in carrying through certain modifications of the computer program, and Mrs. Carla G. Messina who is responsible for most of the figures and for the performance of many side calculations incidental to checking out the main computing program. We are indebted to Mr. Lester Haar for supplying unpublished values of ideal-gas thermodynamic functions for certain species and to Dr. Harold W. Woolley for invaluable support, cooperation, and advice, over a period of years.

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1.0 INTRODUCTION

The thermodynamic properties of nitrogen in chemical equilibrium are presented at 100° intervals from 2000°K to 15,000°K at uniform spacing in $\log \rho/\rho_0$ from 10^{-7} to $10^{2.4}$ times normal density. The equilibrium is computed between six species: N_2 , N_2^+ , N^+ , N^{++} , N , and e taking into account second virials for the interactions between N_2 - N_2 , N - N , N_2 - N , N - N_2^+ , N_2 - N^+ , N - N^+ , as well as limiting-law Debye-Huckel corrections.

The program used for the calculations is the same one used for the calculation of equilibrium properties of air reported recently (Ref. 1) in an AEDC report (AEDC-TDR-63-161). It is a modification of an earlier method (Ref. 2) to provide for limiting-law Debye-Huckel and second virial corrections. These corrections are based on the detailed formulation of the thermodynamic properties of ionized gases by H. W. Woolley (Ref. 3).

In the sections which follow, the formulation of the properties of a dissociated and ionized gaseous mixture made up of ideal gases is discussed first. The various real-gas effects which are here considered are then applied either as factors or as additive terms to the ideal representation. Among other things this treatment permits the preservation of much of the calculation flow and logic of the ideal-gas computer program. This involves no loss of generality and makes it easier to add still further corrections in the future.

2.0 EQUILIBRIUM IN HOMOGENEOUS GASEOUS SYSTEMS

The number of moles of molecules, molecule ions, and atomic ions in a gaseous mixture in chemical equilibrium can be written for the ideal mixture in terms of products of the number of moles of certain reference species, C_k , and equilibrium constants, $(K_p)_i$, as follows:

$$C_i = (K_p)_i \left(\frac{T}{T_0}\right)^{-\omega_i} \left(\frac{\rho}{\rho_0}\right)^{-\omega_i} \prod_k C_k^{r_{ik}} \quad (1)$$

where

- C_k = the number of moles per mole of low temperature gas of the reference species ($k = 1$ for nitrogen atoms and $k = 2$ for electrons)
- C_i = the number of moles per mole of low temperature gas of all but the reference species
- ρ/ρ_0 = the density relative to the density at standard conditions: $p_0 = 1$ atmosphere, $T_0 = 273.15^\circ\text{K}$
- T = the Kelvin temperature
- $-\omega_i = 1 - \sum r_{ik}$ = the net change in the number of particles across the reaction
- r_{ik} = the incidence matrix representing the multiplicity of the reference species k present in each ordinary species, i
- $(K_p)_i$ = the equilibrium constant for the formation of the i^{th} species from the reference species

The equilibrium constant K_p is computed from the relation

$$K_p = e^{-\Delta F^0/RT}$$

where ΔF^0 is the change in the Gibbs free energy across the reaction.

If we set

$$\bar{K}_i = (K_p)_i \left(\frac{T_0}{T}\right)^{\omega_i} \quad (2)$$

Eq. (1) can be written as

$$C_i = \bar{K}_i \left(\frac{\rho}{\rho_0}\right)^{-\omega_i} \prod_k C_k^{r_{ik}} \quad (3)$$

In this equation the equilibrium constant \bar{K}_i is a function of temperature only. Various real gas effects appear as additive corrections to the free energy of the individual constituents or to the energy difference across the reaction. Since these appear as exponents of e (the base of the natural logarithm), the corrections can be written as multiplicative factors (Ref. 4) of the equilibrium constant \bar{K}_i . Thus, for

a mixture of real gases in equilibrium at a fixed temperature, the equation

$$C_i = \Gamma_i^{(1)} \Gamma_i^{(2)} \Gamma_i^{(3)} \dots \Gamma_i^{(n)} \bar{K}_i \left(\frac{\rho}{\rho_0}\right)^{-\omega_i} \prod_k C_k^{r_{ik}} \quad (4)$$

provides such real gas corrections to the equilibrium as can be represented by the density dependent gammas. Woolley has formulated such corrections (Ref. 3) for a number of real gas effects. In the present work we have included only two such corrections - the Debye-Hückel limiting-law and the second virial corrections.

For the Debye-Hückel limiting-law effect on the equilibrium concentrations

$$\begin{aligned} \ln \Gamma_i^{(1)} &= \frac{\pi^{1/2} \epsilon^3}{(D k T)^{3/2}} \left(\frac{N_0}{V_0}\right)^{1/2} \left(\frac{\rho}{\rho_0}\right)^{1/2} (Z_i + Z_i^2) \left(\sum_{\alpha=1}^{n+2} Z_\alpha^2 C_\alpha\right)^{1/2} \\ &= 628145.39 \left(\frac{\rho}{\rho_0}\right)^{1/2} T^{-3/2} (Z_i + Z_i^2) \left(\sum_{\alpha=1}^{n+2} Z_\alpha^2 C_\alpha\right)^{1/2} \end{aligned} \quad (5)$$

where

- C_α = the number of moles per mole of any one of the species in the mixture
- Z_i = the ionic charge of the i^{th} species in protonic units
- ϵ = the electronic charge
- D = dielectric constant of the gas, assumed here as unity
- n = number of non-reference species
- k = Boltzmann constant
- N_0 = Avagadro's number
- V_0 = 22414.6 cm³/mole

For the second virial correction to the equilibrium concentrations

$$\ln \Gamma_i^{(2)} = \frac{-2}{V_0} \left(\frac{\rho}{\rho_0}\right) \left(\sum_{\alpha=1}^{n+2} C_\alpha B_{\alpha i} - \sum_{k=1}^2 r_{ik} \sum_{\alpha=1}^{n+2} C_\alpha B_{\alpha k}\right) \quad (6)$$

where

- $B_{\alpha i}$ = the second virial coefficient in units of cm³/mole for the interaction of the α^{th} with the i^{th} species

$B_{\alpha k}$ = the second virial coefficient (in units of cm^3/mole) for the interaction of the α^{th} species with the k^{th} reference species

Corrections have not yet been incorporated for $\Gamma_i^{(3)}$, $\Gamma_i^{(4)}$, and $\Gamma_i^{(5)}$ which represent the influence on the equilibrium of third and higher virial coefficients, of certain ionic effects, and of the shift of the ionization potential. These corrections are believed to have only a small influence on the thermodynamic properties of the mixture in the temperature and density range covered here.

In addition to the above equations, a gas in equilibrium must also obey one or more mass balance equations, and a charge balance equation. These equations can be written in the above notation as

$$X_1 = \sum_{i=1}^{n+1} r_{i1} C_i \quad (7)$$

for the conservation of atomic nuclei, and

$$C_{n+2} = - \sum_{i=1}^n r_{i2} C_i \quad (8)$$

for the charge balance.

In the above equations X_1 represents the maximum possible number of moles of nitrogen atoms (in this case $X_1 = 2$). Values of r_{ik} are given in Table B for the constituents considered in these calculations. This incidence matrix, r_{ik} , corresponds to the chemical reactions given in Table A for which Eq. (3) is a representation.

3.0 THERMODYNAMIC PROPERTIES OF THE EQUILIBRIUM MIXTURE

The thermodynamic properties of the equilibrium mixture can be computed from the corresponding properties of the individual species (atoms, molecules, atomic and molecular ions, and the electrons) and the number of moles, C_i , of each species in the mixture. To simplify the presentation the thermodynamic properties of the mixture are written in three parts: the

properties of the corrected mixture considering the species as ideal gases; the contribution, Δ_1 , of the limiting-law Debye-Hückel effect; and the contribution, Δ_2 , of the second virial interactions.

Thus, for one mole of gas at standard conditions (273.15°K, 1 atm) we compute for each value of T and ρ/ρ_0 :

the total number of moles per mole of low temperature gas,

$$Z^* = \sum_{i=1}^{n+2} C_i \quad (9)$$

the mole fractions,

$$X_i = C_i/Z^* \quad (10)$$

and the compressibility factor,

$$Z = PV/RT = Z^* + \Lambda_1 Z + \Lambda_2 Z \quad (11)$$

where

$$\Lambda_1 Z = \frac{-628145.39}{3} \left(\frac{\rho}{\rho_0}\right)^{1/2} T^{-3/2} \left(\sum_{i=1}^{n+2} Z_i^2 C_i\right)^{3/2} \quad (12)$$

and

$$\Lambda_2 Z = \frac{1}{V_0} \left(\frac{\rho}{\rho_0}\right) \sum_{\alpha=1}^{n+2} \sum_{\beta=1}^{n+2} C_\alpha C_\beta B_{\alpha\beta} \quad (13)$$

In the right-hand side of Eq. (12), Z_i is the ionic charge of the i^{th} species in protonic units. In Eq. (13), $V_0 = 22414.6 \text{ cm}^3/\text{mole}$, C_α and C_β are the number of moles of the α and β and $B_{\alpha\beta}$ is the second virial coefficient (in units of cm^3/mole) for their interaction. The program is written to handle pair interactions between all of the species in the mixture. Since practical considerations often limit the availability of virial coefficients for certain interactions, the program permits the inclusion or exclusion of any reaction via an incidence matrix. Further discussion of the virial corrections is given in section 5.0.

The internal energy,

$$E/RT = \sum_{i=1}^{n+2} C_i (E^\circ/RT)_i + \bar{D}/T + \Lambda_1 (E/RT) + \Lambda_2 (E/RT) \quad (14)$$

where

$(E^0/RT)_i$ = the dimensionless internal energy, $(E^0 - E_0^0)/RT$,
of the i th species

\bar{D} = the reaction energy discussed in section 4.0

$$\Delta_1 (E/RT) = 3 \Delta_1 Z \quad (15)$$

and

$$\Delta_2 (E/RT) = - \frac{1}{V_0} \left(\frac{\rho}{\rho_0} \right) \sum_{\alpha=1}^{n+2} \sum_{\beta=1}^{n+2} C_{\alpha} C_{\beta} T \frac{d B_{\alpha\beta}}{dT} \quad (16)$$

The pressure in atmospheres,

$$P = \frac{ZRT}{V} = \left(\frac{\rho}{\rho_0} \right) \left(\frac{T}{T_0} \right) \frac{Z}{Z_0} \quad (17)$$

The enthalpy,

$$H/RT = E/RT + Z \quad (18)$$

The entropy,

$$\begin{aligned} \frac{S}{R} = Z^* & \left[\sum_{i=1}^{n+2} X_i \left(\frac{S^0}{R} \right)_i - \sum_{i=1}^{n+2} X_i \ln X_i - \ln \left(\frac{P}{P_0} \right) \right] \\ & + \Delta_1 \left(\frac{S}{R} \right) + \Delta_2 \left(\frac{S}{R} \right) \end{aligned} \quad (19)$$

where

$$\Delta_1 (S/R) = \Delta_1 Z \quad (20)$$

and

$$\lambda_2 \frac{S}{R} = - \frac{1}{V_0} \left(\frac{\rho}{\rho_0} \right) \sum_{\alpha=1}^{n+2} \sum_{\beta=1}^{n+2} C_{\alpha} C_{\beta} \left(B_{\alpha\beta} + T \frac{d B_{\alpha\beta}}{d T} \right) \quad (21)$$

4.0 DISCUSSION OF THE INPUT DATA

The tables and figures presented in this report result from the solution of the equations given in the previous sections. The calculations, which were performed on an IBM 7090 computer, considered the equilibrium between N_2 , N_2^+ , N^+ , N^{++} , N , and the electrons. The 6 species considered in the calculations are shown in Table B. The thermodynamic functions for the atoms, molecules and ions are the same as those used in the air calculations (Ref. 1). For atoms and atomic ions they approximate closely functions obtained by direct summation of the observed atomic energy levels (Ref. 4) up to and including levels for $n = 5$. The thermal functions for N_2 were taken from NBS Circular 564 (Ref. 5) up to 5000 K.

The thermodynamic functions for the diatomic molecule N_2 , above 5000 K and the molecule ion N_2^+ , over the entire range are from unpublished calculations by L. Haar who has reinvestigated the treatment for the diatomic molecules at high temperature and has carried out new calculations at close temperature spacings. These functions represent improvements over the earlier values published for these substances by Beckett and Haar (Ref. 6).

The reaction energies - dissociation energy, heat of formation, ionization potential - for the species are given in temperature units in the last column of Table B. These are in substantial agreement with values used by Gilmore (Ref. 7) and Hochstim (Ref. 8). The equilibrium constants, computed from these values and the ideal gas free energies, are given together with the internal energy and entropy for selected temperatures in Table E. Here the internal energies for the molecules, the molecule ions, and the atomic ions have been referred to a common reference - that of the energy ($E_0^0 = 0$) of the atoms at absolute zero. It should be noted that this choice would give a negative internal energy for the mixture at low temperatures - before appreciable dissociation has set in. For this reason the term D/T has been added to Eq. (14) to restore the reference energy of the mixture to that for the molecules.

5.0 THE SECOND VIRIAL CORRECTIONS

The second virials and their derivatives used for neutral-neutral and ion-neutral pairs are based on empirical pair potentials where available, and otherwise on a combination of theoretical relations and empirical correlations described elsewhere (Ref. 9). For the attractive dispersion-type potentials, the theoretical formulas of Slater and Kirkwood (Ref. 13) or Hornig and Hirschfelder (Ref. 14) were used, but with empirical adjustments where possible. The empirically known geometric mean combination rule has also been used instead of pure theory when application was feasible. A form of Margenau's theoretical induced quadrupole energy (Ref. 15) and the theoretical induction energy were also accepted for ion-neutral pairs.

A semi-empirical correlation of inter-atomic repulsive potentials was based on interatomic Lennard-Jones parameters converted directly from corresponding parameters for molecules. For this conversion, the atomic pair excluded volume was based on an extension (Ref. 9) of Kihara's spherocylindrical treatment for diatomic molecules so as to cover also sphero-conical diatomic molecules which are then models for pairs involving diatomic compounds. By this means, atomic exclusion radii were obtained from molecular excluded volumes and internuclear distances within the diatomic molecules. The assumption of additivity of long-range dispersion forces between atoms of separate molecules then led to a selection of non-bonding atom-atom energy parameters with the help in some cases of extensions of familiar combination rules commonly used for mixtures. A good correlation of the resulting coefficients of the inverse twelfth repulsion energy term was obtained by converting to a basis conforming to the exponent for Slater wave functions, with the internal shielding essentially as given by Slater's rules.

The numerical values for the second virial coefficients, and derivatives, for the various pairs of interest have been taken from the same source (Ref. 9). They were based on a specialization from a general polyreciprocal potential to the particular case of a general 12, 6, 4 potential approximately covering ion-neutral and neutral-neutral pair effects. The interactions considered in these calculations are shown in the incidence matrix in Table F. The virial coefficients for certain selected temperatures are given in Table G. In computing the corrections to the properties (Eqs. (13), (16), (21)), the program was arranged to consider the contribution of the included pairs when the product $C_\alpha \times C_\beta$ exceeded 10^{-40} .

6.0 DISCUSSION OF THE TABLES

Table 1 gives the following thermodynamic properties: the compressibility factor, $Z = PV/RT$; the dimensionless internal energy, E/RT ; enthalpy, H/RT ; the entropy, S/R ; $\log_{10} P$ (atm); and the number of moles $Z^* = \sum C_i$. The tables are presented at 100-deg intervals from 2000 to 15,000°K. They were computed at uniform intervals (0.2) in $\log_{10} \rho/\rho_0$ from $\rho/\rho_0 = 10^{-7}$ to somewhat over 100 times normal density. The densities corresponding to the logarithmic arguments are given in Table D. The compressibility isotherms are shown graphically in Figs. 1a and b.

Unlike the ideal calculations, the tabulated values of Z are the compressibility factors and not the number of moles. These two values are coincident only when gas imperfections are small. The influence of the gas imperfections on the compressibility are shown graphically for selected temperatures in Figs. 2a, et seq., for the second virials and in Fig. 3 for the limiting-law Debye-Huckel effect. It will be observed from Eqs. (15), (18), and (20) that for the limiting-law Debye-Huckel effect the corrections to the internal energy, enthalpy, and entropy are simple multiples of $\Delta_1 Z$. Thus, Fig. 3 can be used to assess this influence on four of the thermodynamic properties tabulated.

The thermodynamic properties presented here result from the solution of equations involving the equilibrium between 6 species shown in Table B. The equilibrium compositions for selected temperatures are shown in Figs. 4a, et seq.

The magnitude of the real-gas effects considered here can best be ascertained from Figs. 2a, et seq., and 3. The second virial corrections $\Gamma_i^{(2)}$, to the equilibrium constants (and hence to the concentrations of the species present) are greater than unity for all non-reference species. This effect increases the equilibrium constants, thereby favoring the formation of the molecules and ions over that of the neutral atoms. These effects appear most dramatically in the elevated temperatures region only at high densities where the ions persist. The overall effect of the changes in the concentrations on the properties of the mixture is small. The major effect of the gas imperfections as shown in Figs. 2a through d is from the deltas computed in Eq. (13). The same may be said for the corrections to the internal energy, entropy, etc., given in Eqs. (16) and (21).

As early as 1959 Gilmore carried out a number of spot calculations of the effect of the gas imperfections on the

compressibility, internal energy, enthalpy, entropy, and pressure of air (Ref. 7). He computed second and third virial coefficients for "air" as a single substance on the assumption that a Lennard-Jones 6-12 interaction potential with the constants $\epsilon/k = 102^\circ\text{K}$ and $\sigma = 3.62\text{\AA}$. His results served to confirm the general trend of the virial corrections as was illustrated in the report for Air (Ref. 1). A similar calculation was carried out for Nitrogen by Smith (Ref. 10) using virial coefficients credited to Amdur and Mason (Ref. 11). Smith's results, comprising a gross correction to the properties of equilibrium mixture, is shown for the 2000° isotherm in Figure 2a, where agreement with our detailed calculation is apparent at densities up to 100 normal. The departure at higher densities is in general agreement but not as extreme as those resulting from similarly gross corrections made by us, using the Lennard-Jones potential with force constants taken from Reference 12. These corrections are shown in Figures 2a et seq. to indicate the possible magnitude of the third virial corrections but not their numerical values.

While the tables presented here represent a closer approximation to the properties of nitrogen than has been computed heretofore, they are by no means the last word. The improvement of the tables depends upon further theoretical formulations for the inclusion of higher ionic and higher virial corrections, as well as a significant increase in knowledge to be gained from a variety of experiments. Much more information is needed on excited states of molecules and molecule ions; on interaction potentials between the neutral and between the charged species present in high temperature gases; and on such data as heats of formation, dissociation energies, ionization potentials, etc.

For a number of reasons it is obvious that the tables are given to one or, in some instances, two places more than is warranted by the uncertainties in the input data. This is done to ensure smoothness for further mathematical manipulations. Although the computer program and the results have been checked in a number of ways, it would be unrealistic to assume that the tables are entirely error free. The authors hope that such errors as remain are small and would appreciate having any remaining errors called to their attention.

The tables presented here provide only one third of the complete ensemble of properties required in modern technology. In addition to these tables it is important to have consistent derived properties including: the specific heats, the specific heat ratio, isentropic expansion coefficient, and sound velocity. Equally important for many applications are tables of equilibrium properties across normal shocks. In the past,

other authors have computed numbers of tables and charts of these properties from earlier tables by employing numerical or graphical techniques. These tables and charts now require revision of greater or lesser degree on two counts - the influence of the real-gas corrections at the higher densities, and inaccuracies arising from the numerical differentiation of the energy.

Work is now underway at NBS for the direct calculation of specific heats and the other derived properties, as well as for the properties across normal shocks. Tables of these quantities should be available early in 1964.

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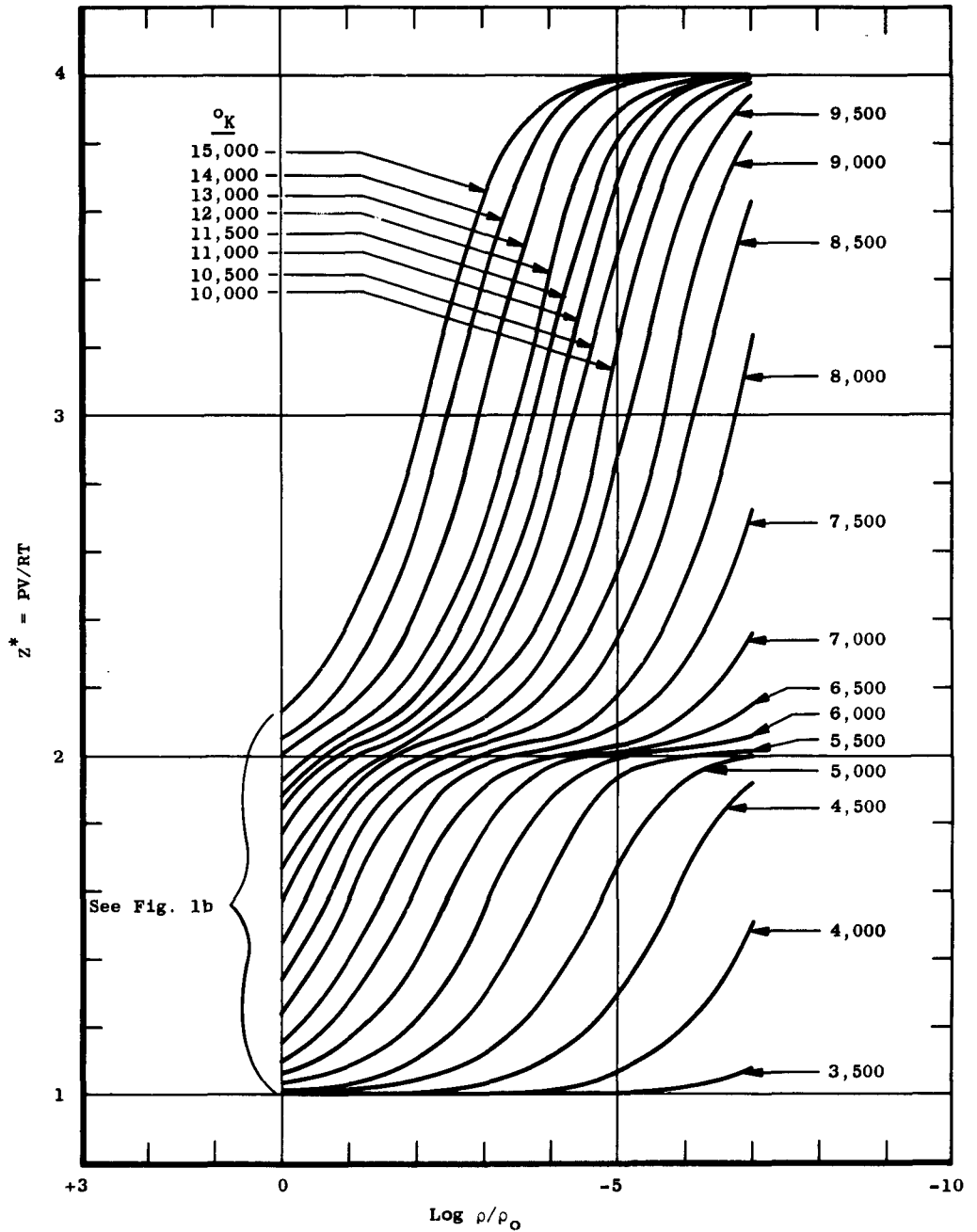


Fig. 1 Compressibility Isotherms for Nitrogen

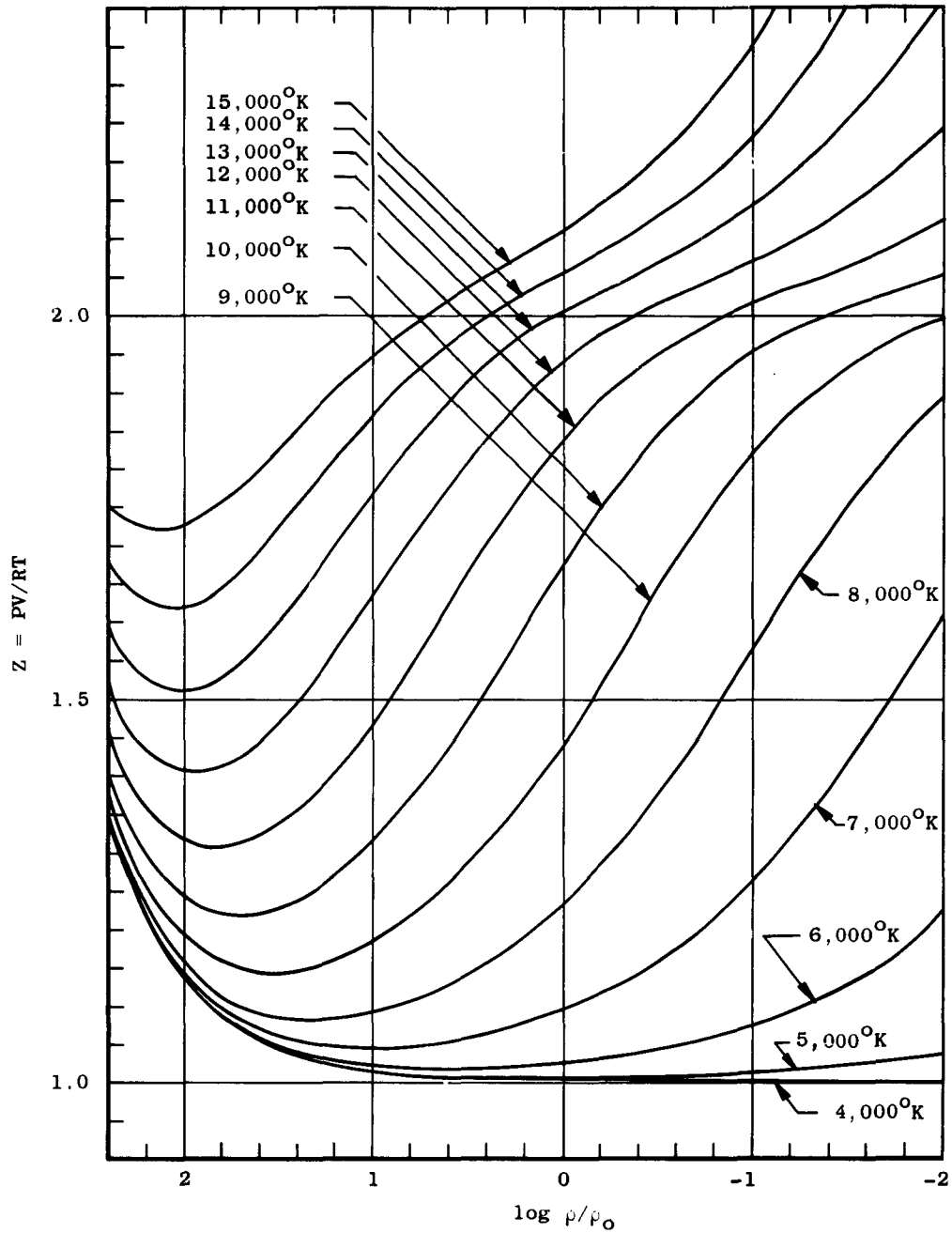


Fig. 1 Concluded

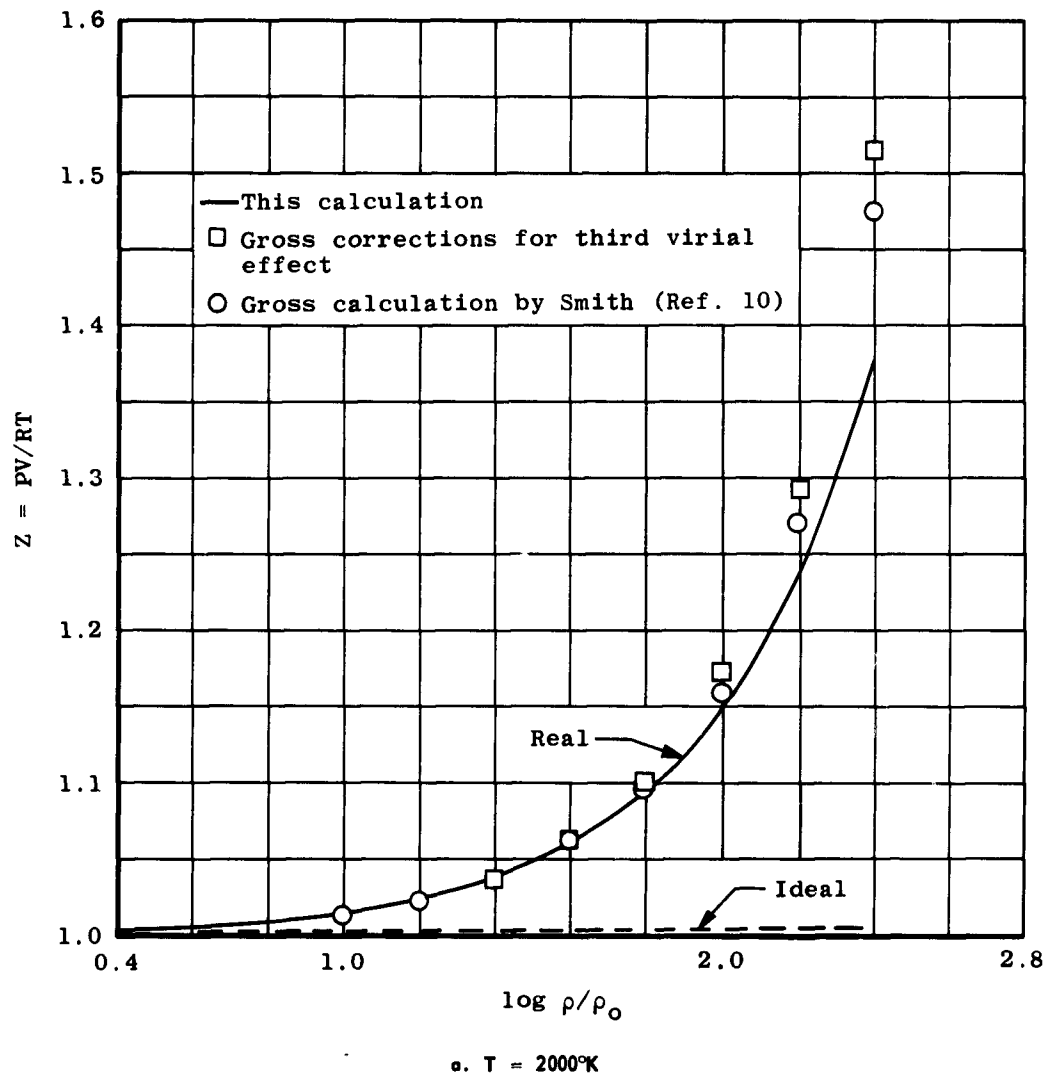
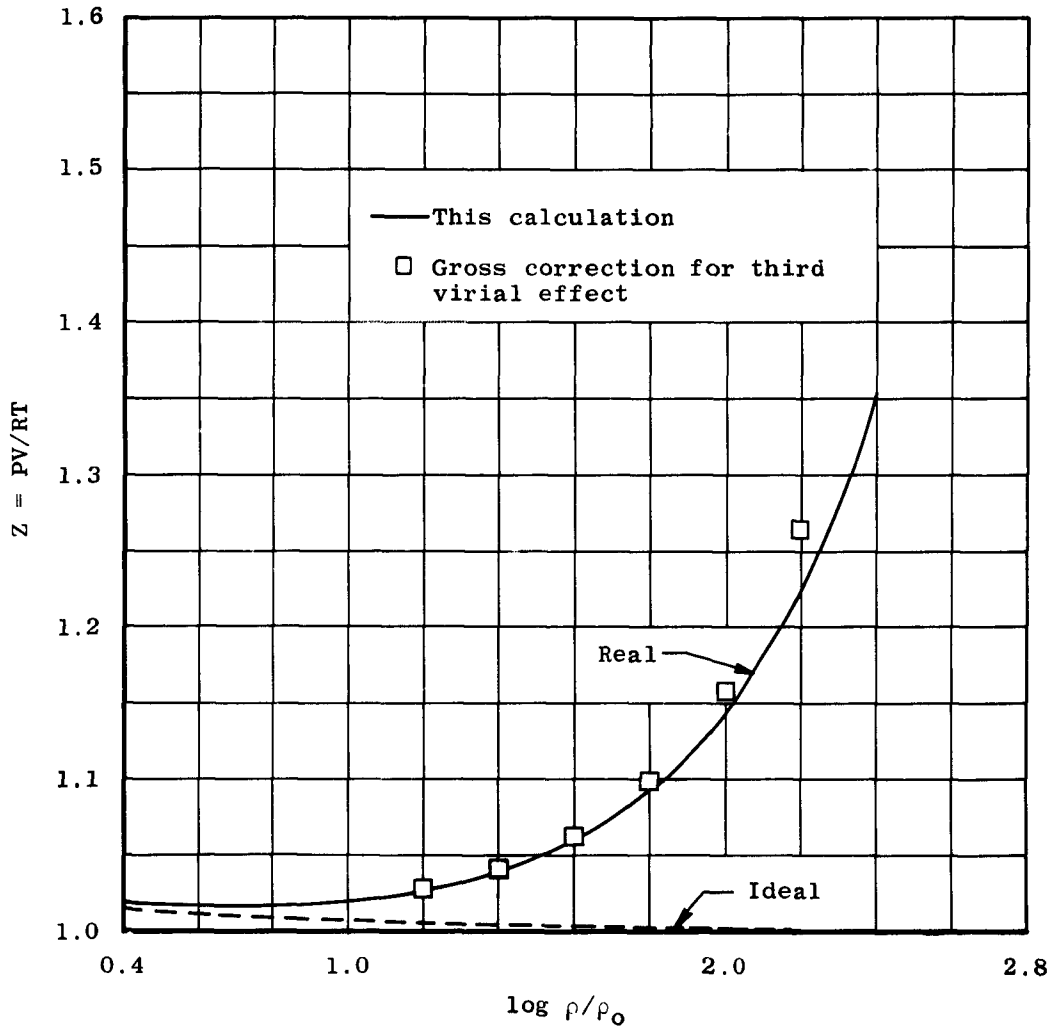
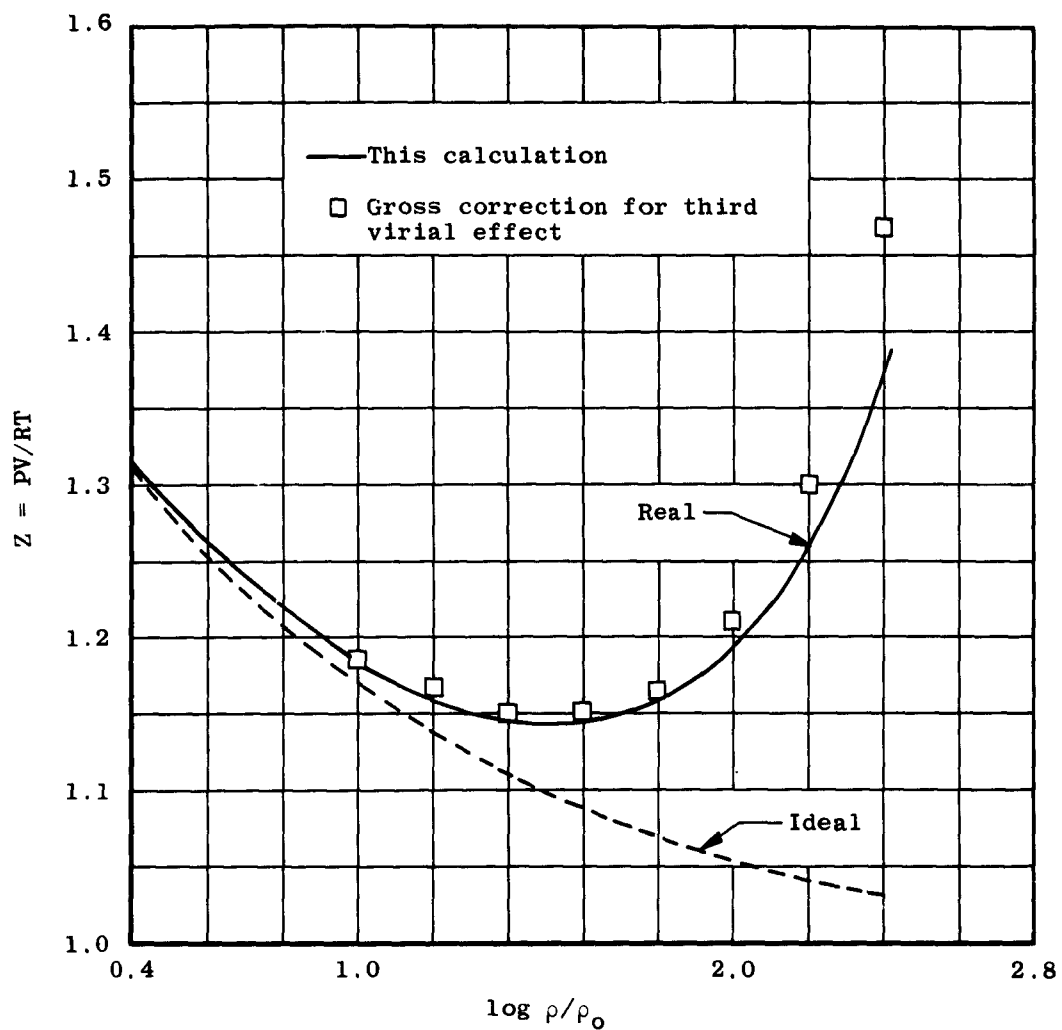


Fig. 2 Corrected and Ideal Compressibility Isotherms for Air



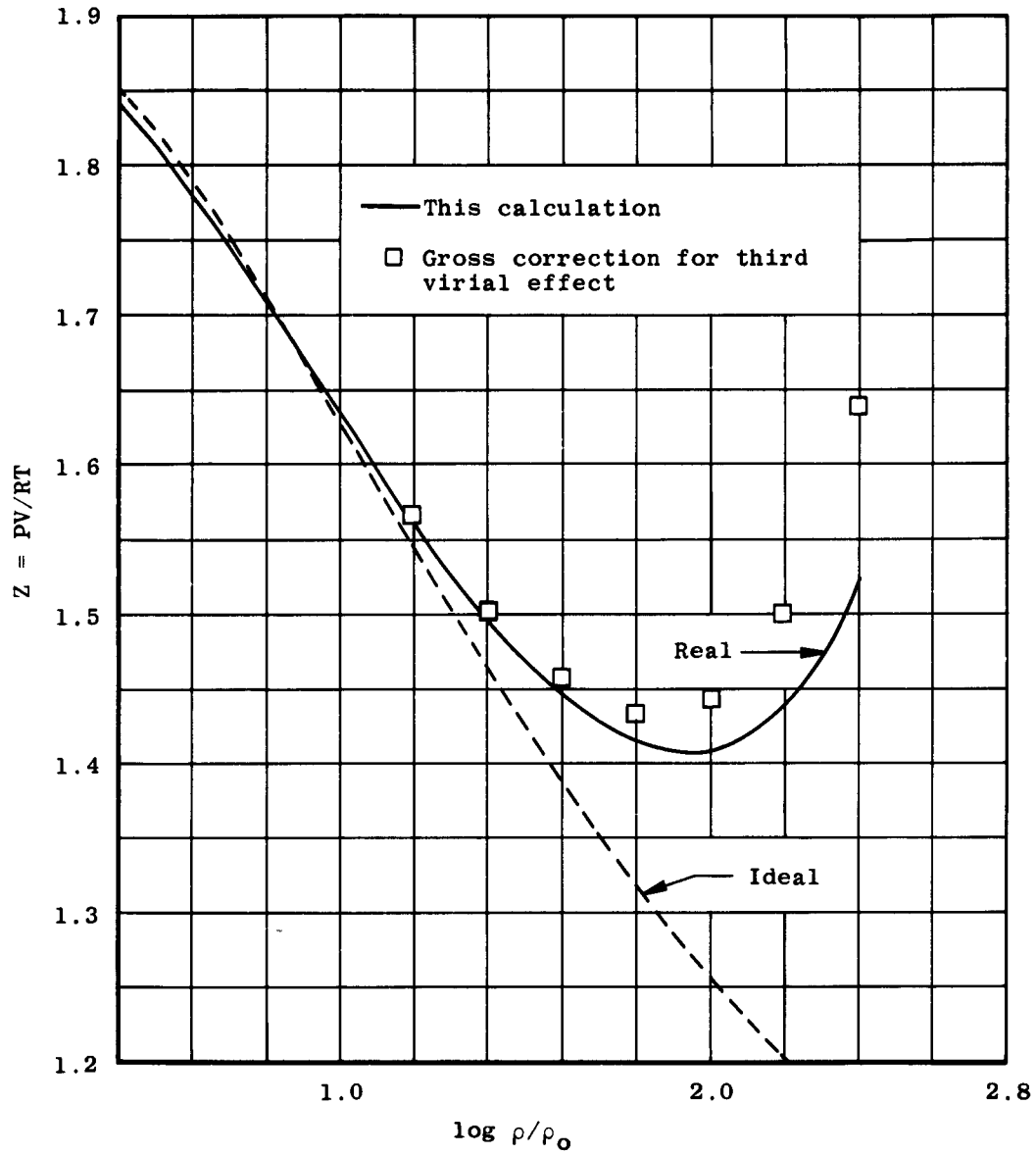
b. $T = 6000\text{K}$

Fig. 2 Continued



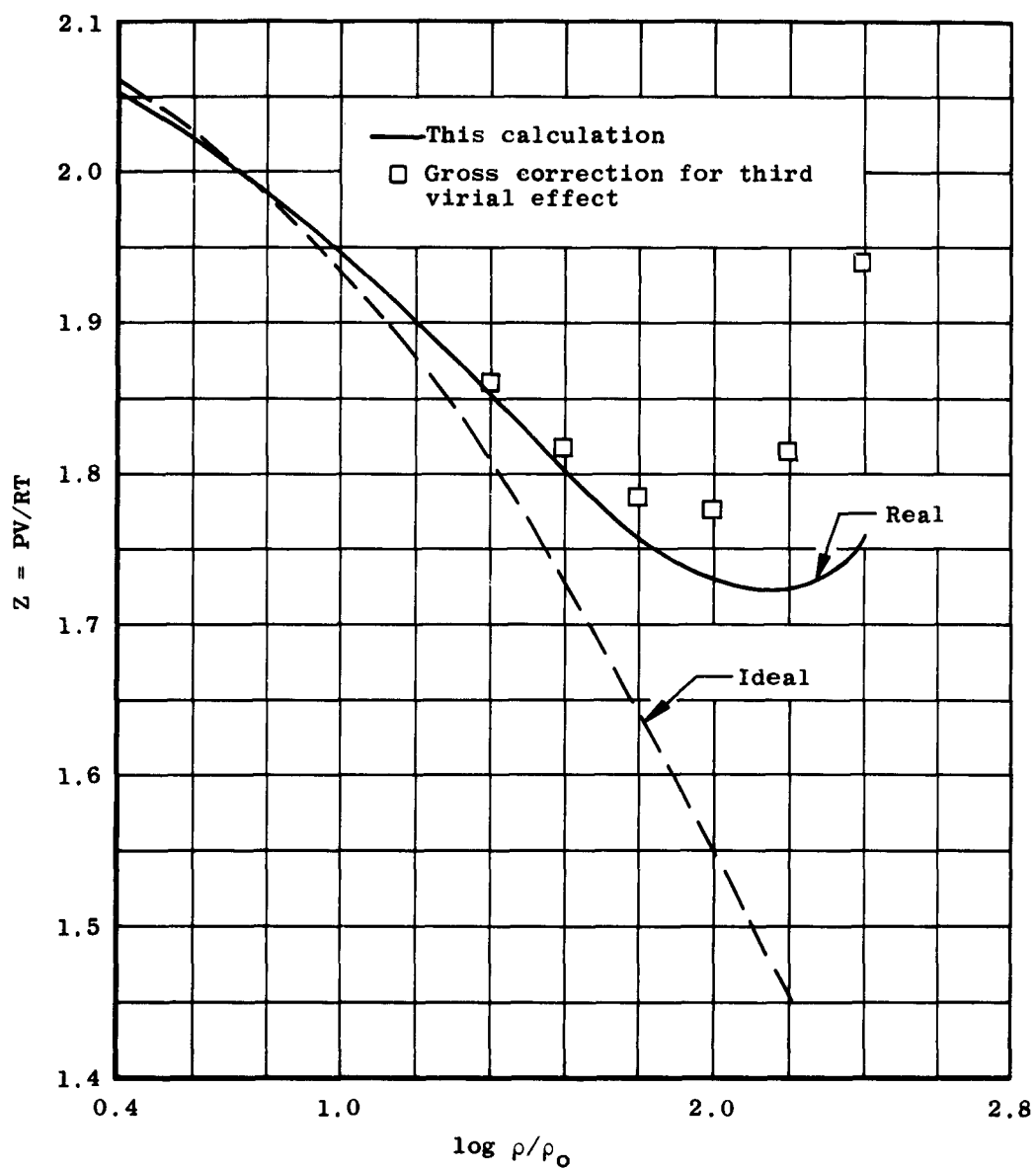
c. $T = 9000\text{K}$

Fig. 2 Continued



d. $T = 12,000^\circ\text{K}$

Fig. 2 Continued



e. $T = 15,000\text{K}$

Fig. 2 Concluded

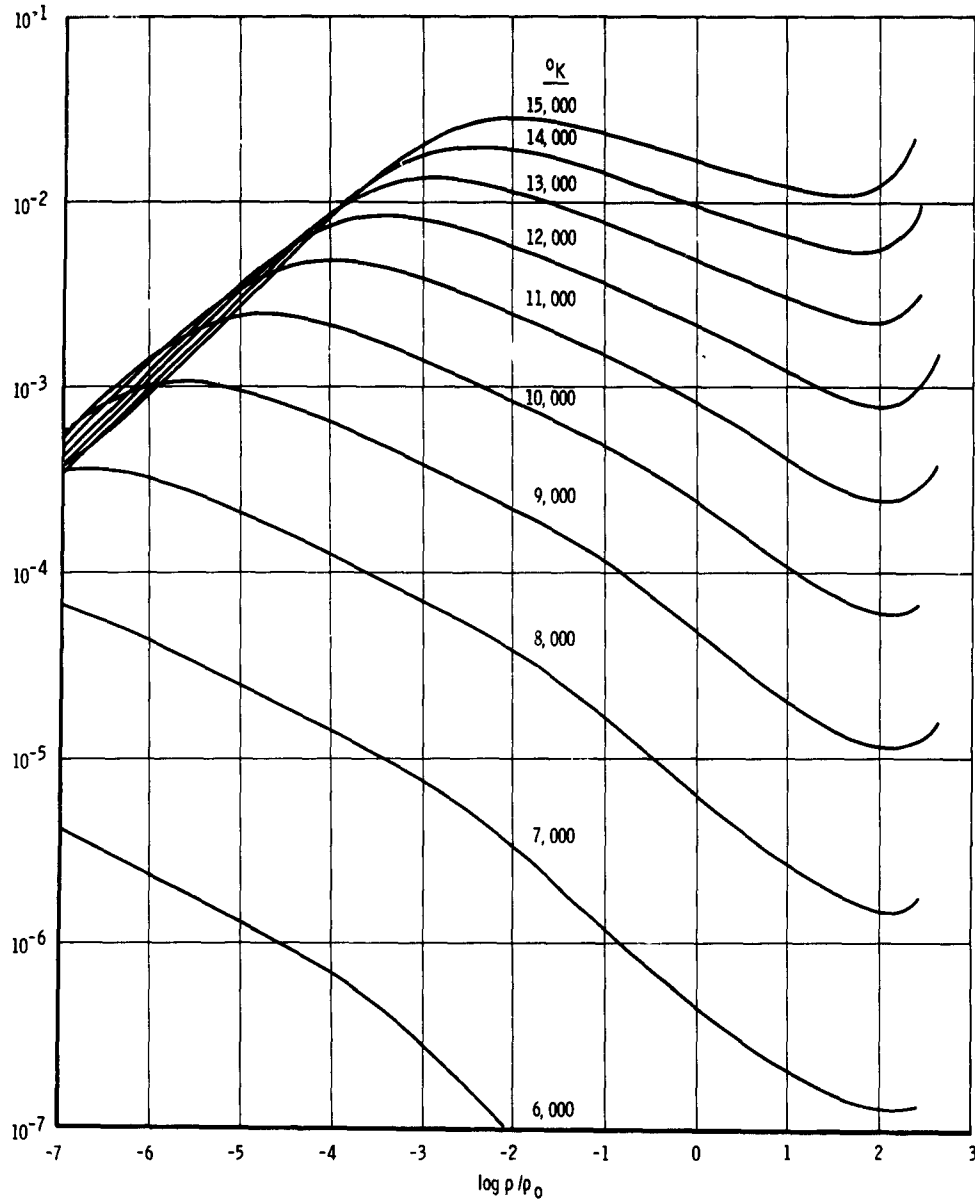


Fig. 3 Limiting-Law Debye-Hückel Effect on the Compressibility for Nitrogen

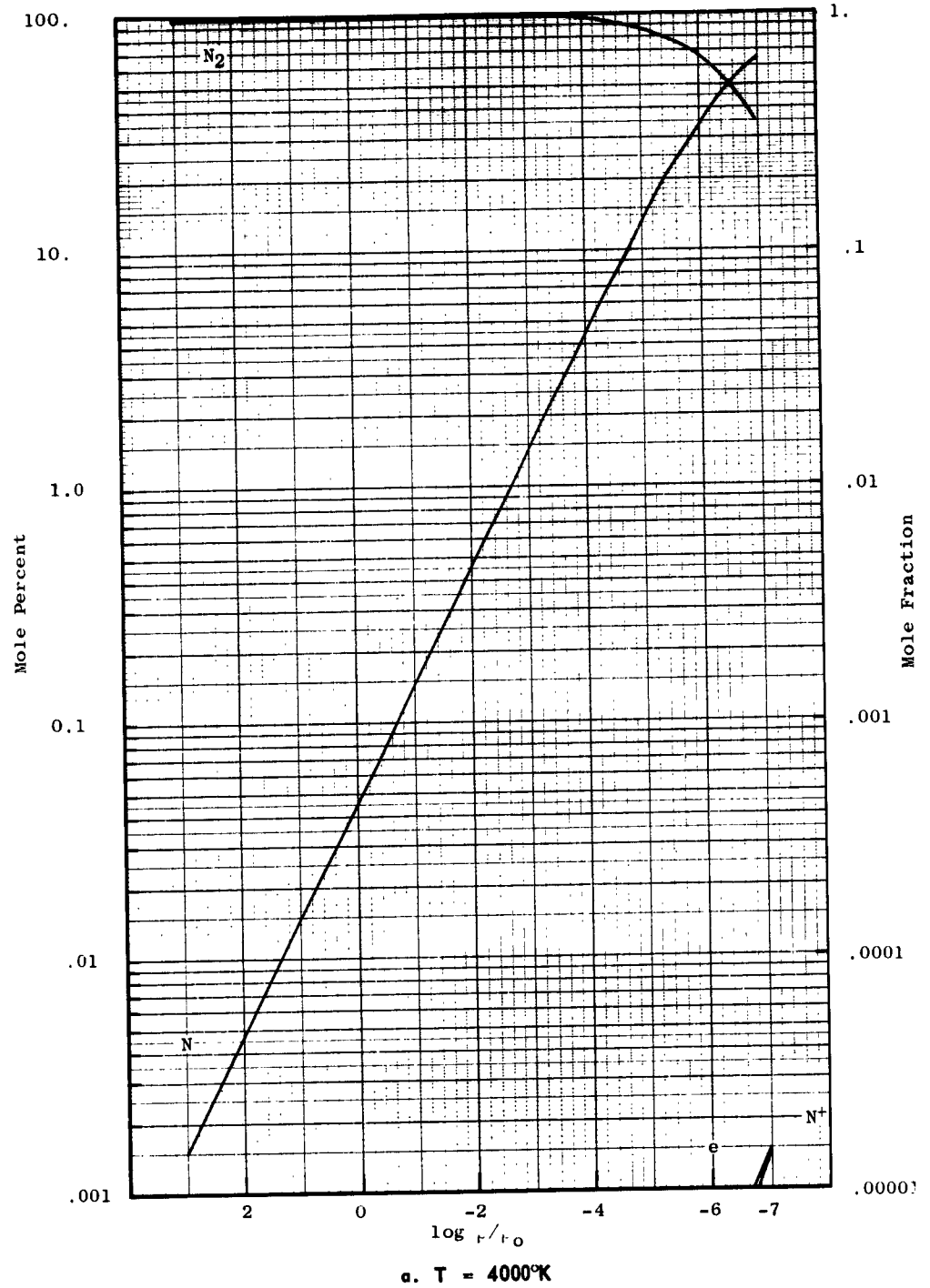
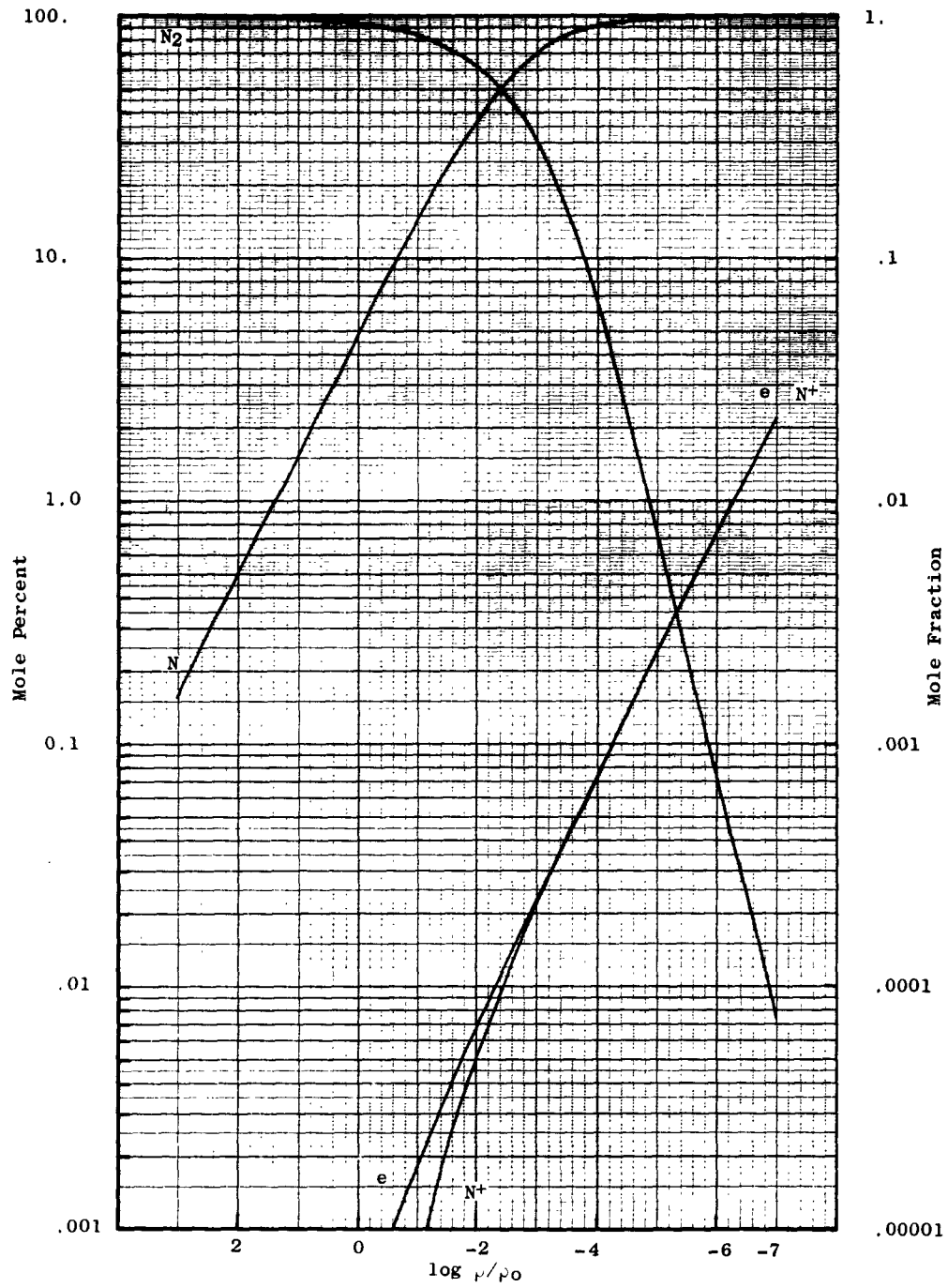
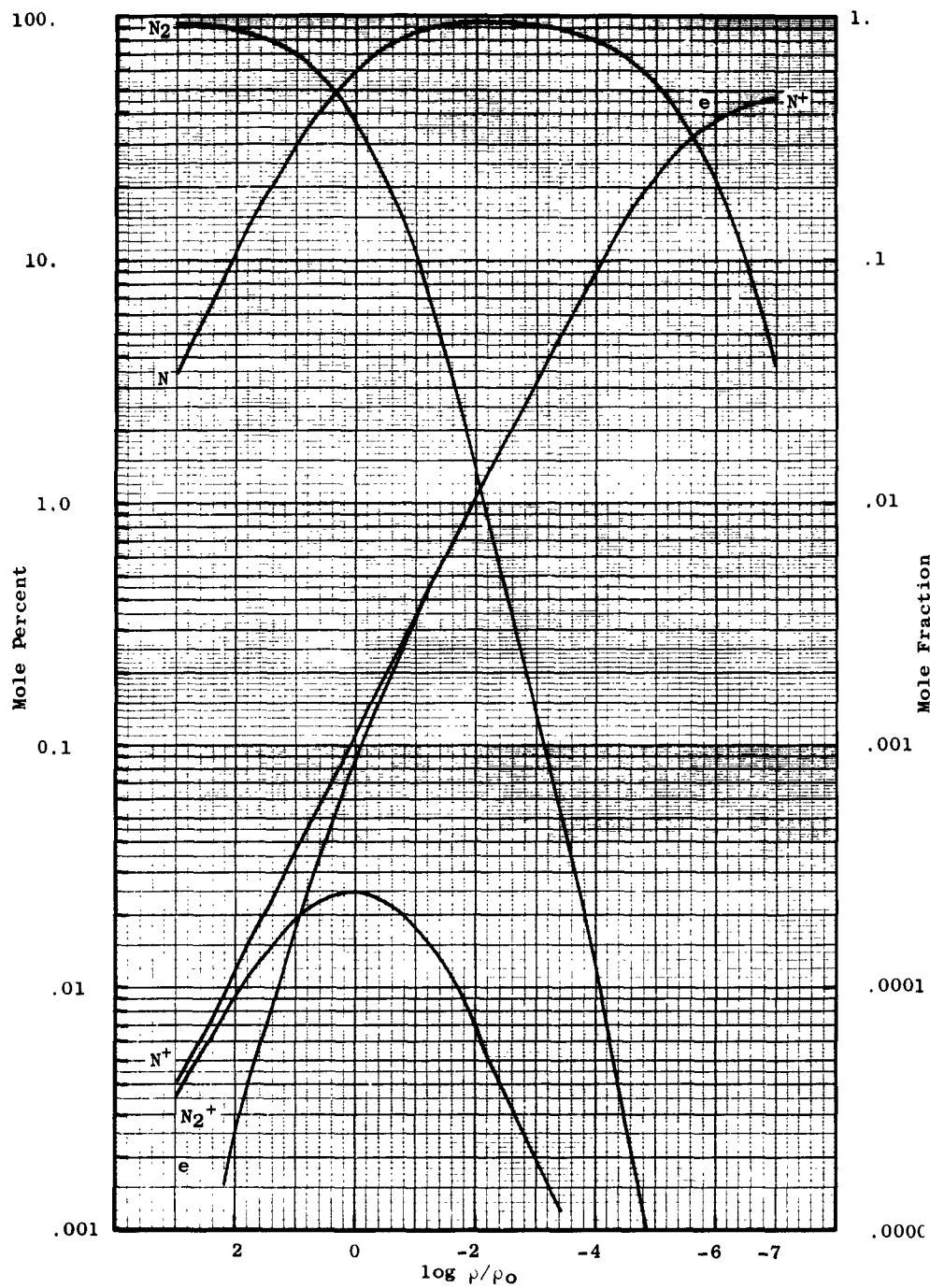


Fig. 4 Equilibrium Composition of Nitrogen



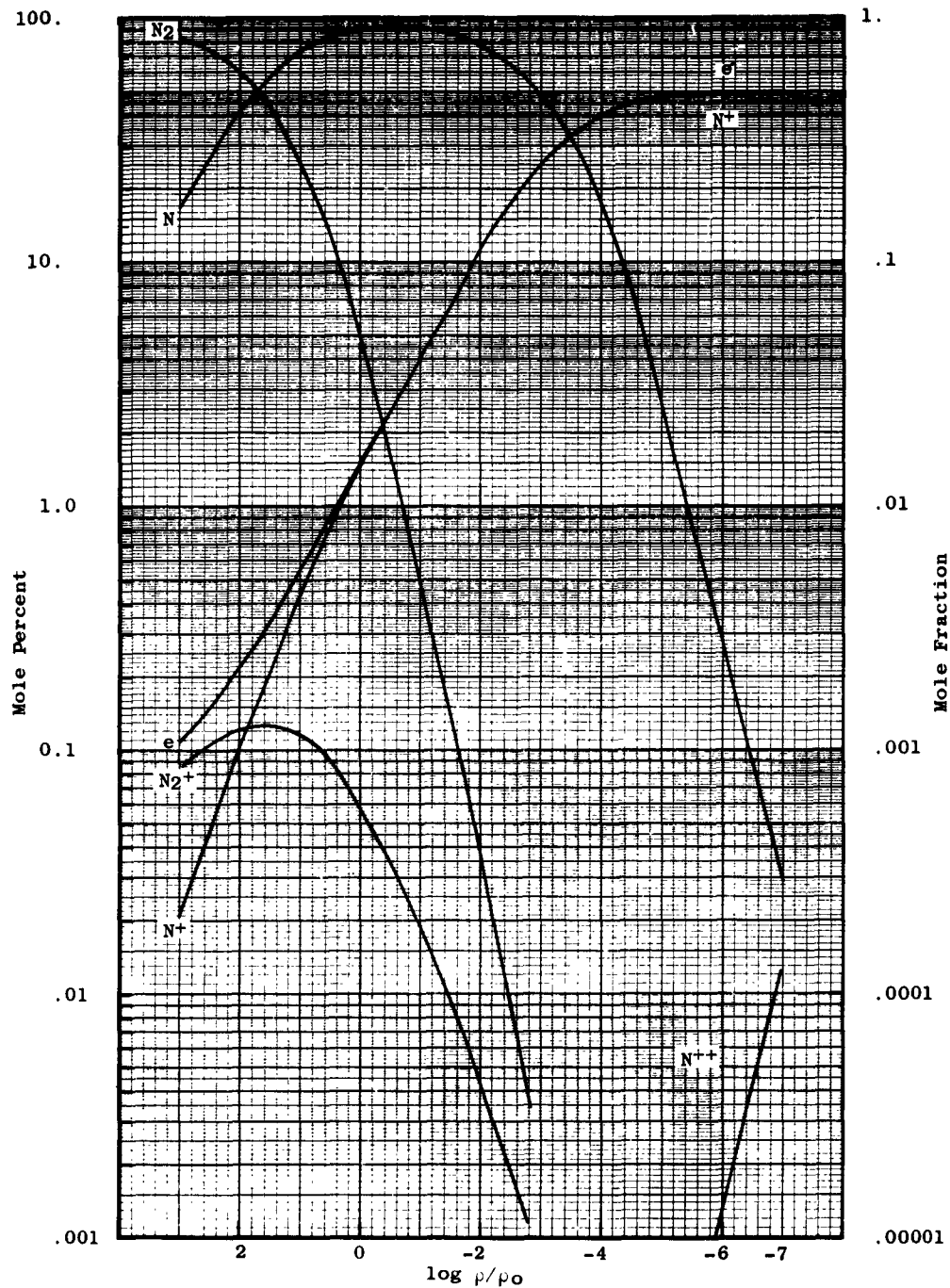
b. $T = 6000^{\circ}K$

Fig. 4 Continued



c. $T = 9000^\circ\text{K}$

Fig. 4 Continued



d. $T = 12,000^\circ\text{K}$

Fig. 4 Continued

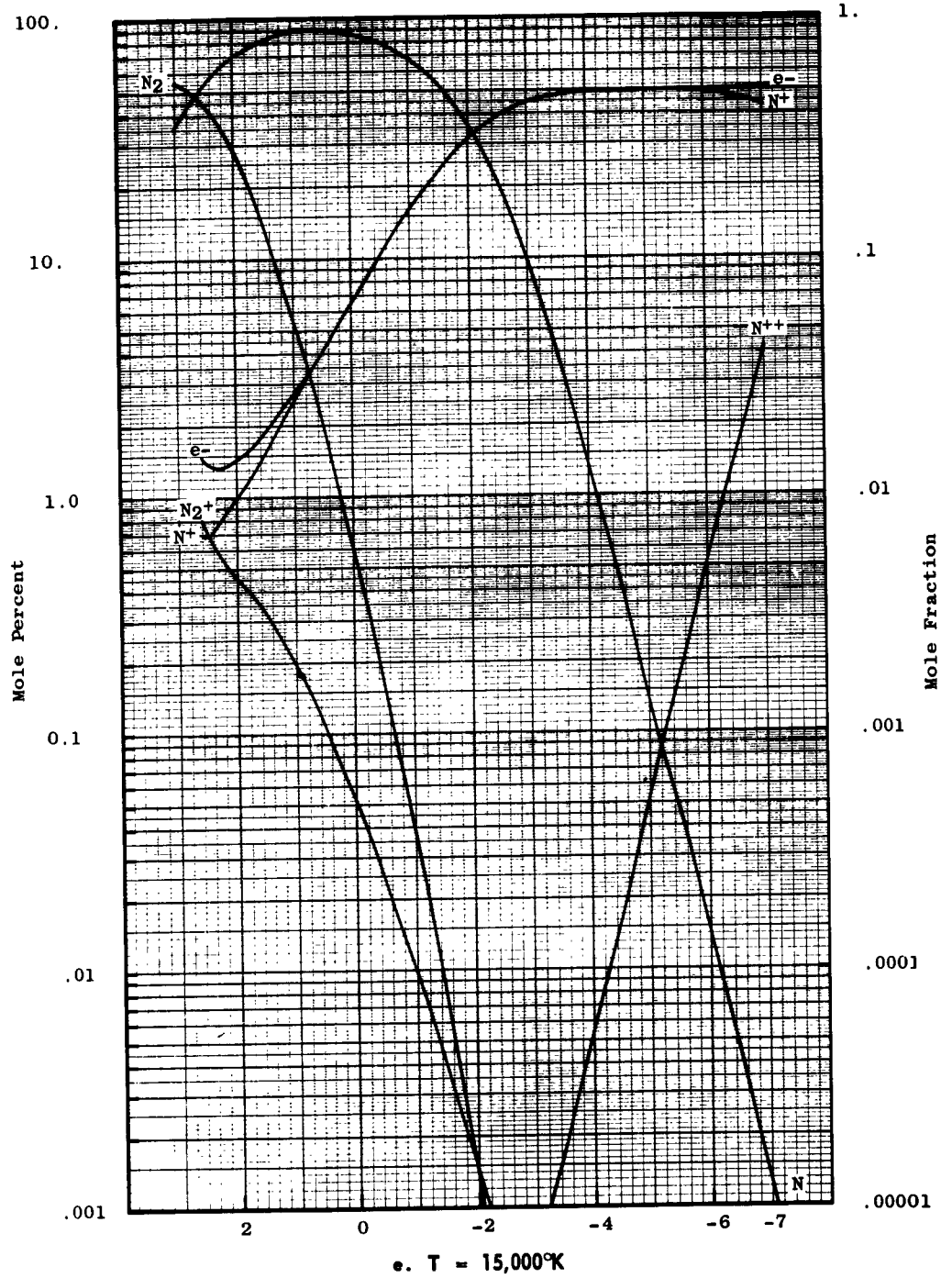


Fig. 4 Concluded

TABLE A
CHEMICAL REACTIONS AND EQUILIBRIUM EQUATIONS FOR NITROGEN

i	Symbol	Reaction	Equilibrium Constants	Concentration Equations	ω_i
1	N_2	$N + N \rightleftharpoons N_2$	$K_1 = [N_2]/[N]^2$	$[N_2]^* = K_1 [N]^2$	-1
2	N_2^+	$2N \rightleftharpoons N_2^+ + e$	$K_2 = [N_2^+][e]/[N]^2$	$[N_2^+] = K_2 [N]^2/[e]$	0
3	N^+	$N \rightleftharpoons N^+ + e$	$K_3 = [N^+][e]/[N]$	$[N^+] = K_3 [N]/[e]$	1
4	N^{++}	$N \rightleftharpoons N^{++} + 2e$	$K_4 = [N^{++}][e]^2/[N]$	$[N^{++}] = K_4 [N]/[e]^2$	2

* $[N_2]$ denotes the concentration of molecular nitrogen

TABLE B
INCIDENCE MATRIX OF r_{ik} VALUES FOR NITROGEN

i	Species	r_{i1}	r_{i2}	D_i/R (°K)
1	N_2	2	0	-113258.
2	N_2^+	2	-1	67561.7
3	N^+	1	-1	168647.5
4	N^{++}	1	-2	512162.6
5	N	1	0	
6	e	0	-1	

TABLE C
MASS AND CHARGE BALANCE EQUATIONS FOR NITROGEN

k	Specie	Equations
1	Nitrogen	$X_1 = 2.0 = \sum_{i=1}^{n+1} r_{i1} C_i$
2	Electrons	$C_2 = - \sum_{i=1}^{n+1} r_2 C_i$

TABLE D
DENSITIES CORRESPONDING TO THE TABULATED ARGUMENTS

$\log p/p_0$	p/p_0	$\frac{\rho}{\text{g/cm}^3}$
2.0	100.	$1.29313 \cdot 10^{-1}$
1.8	63.0957	$8.15909 \cdot 10^{-2}$
1.6	39.8107	$5.14804 \cdot 10^{-2}$
1.4	25.1189	$3.24820 \cdot 10^{-2}$
1.2	15.8489	$2.04947 \cdot 10^{-2}$
1.0	10.	$1.29313 \cdot 10^{-2}$
0.8	6.30957	$8.15909 \cdot 10^{-3}$
0.6	3.98107	$5.14804 \cdot 10^{-3}$
0.4	2.51189	$3.24820 \cdot 10^{-3}$
0.2	1.58489	$2.04947 \cdot 10^{-3}$
0.	1.0	$1.29313 \cdot 10^{-3}$
-0.2	0.630957	$8.15909 \cdot 10^{-4}$
-0.4	0.398107	$5.14804 \cdot 10^{-4}$
-0.6	0.251189	$3.24820 \cdot 10^{-4}$
-0.8	0.158489	$2.04947 \cdot 10^{-4}$
-1.0	0.1	$1.29313 \cdot 10^{-4}$
	etc.	etc.

TABLE E
INPUT DATA FOR AIR CALCULATIONS AT 600, 9000, AND 12,000°K

TEMPERATURE = 6000.0

SPECIES	\bar{K}	E/RT^*	ENTROPY
N2	3.94487E 02	-15.57963	35.22060
N2+	7.73374E-09	15.09033	36.81000
N+	1.12874E-10	29.68155	26.80756
N++	8.41234E-34	86.88795	26.33521
N	1.00000E 00	1.62184	26.07791
E-	1.00000E 00	1.50000	10.01480

TEMPERATURE = 9000.0

SPECIES	\bar{K}	E/RT^*	ENTROPY
N2	7.08376E-01	-9.13322	37.16000
N2+	7.40864E-07	11.54589	39.03500
N+	2.29934E-06	20.37098	27.92113
N++	5.92088E-21	58.42733	27.35113
N	1.00000E 00	1.87547	27.44195
E-	1.00000E 00	1.50000	11.02840

TEMPERATURE = 12000.0

SPECIES	\bar{K}	E/RT^*	ENTROPY
N2	2.70472E-02	-5.72667	38.72600
N2+	7.69129E-06	9.77254	40.59600
N+	3.49440E-04	15.73247	28.73122
N++	1.85813E-14	44.20862	28.08487
N	1.00000E 00	2.07210	28.49509
E-	1.00000E 00	1.50000	11.74770

* The internal energy has been reduced to refer it to the reference energy for atoms

TABLE F
INCIDENCE MATRIX FOR VIRIAL COEFFICIENTS

E	0	0	0	0	0	0
N	1	1	1	0	1	0
N ⁺⁺	0	0	0	0	0	0
N ⁺	1	0	0	0	1	0
N ₂ ⁺	0	0	0	0	1	0
N ₂	1	0	1	0	1	0
	N ₂	N ₂ ⁺	N ⁺	N ⁺⁺	N	E

TABLE G
SECOND VIRIAL COEFFICIENTS AT 6000, 9000, AND 12,000°K

Interaction	6000°K	9000°K	12,000°K
N - N	18.620	17.390	16.473
N - N ⁺	-11.012	-3.133	0.555
N - N ₂ ⁺	-0.991	5.297	8.125
N - N ₂	24.280	22.790	21.675
N ₂ - N ₂	31.211	29.503	28.168
N ₂ - N ⁺	-16.324	-5.283	-0.106

TABLE H

THERMODYNAMIC PROPERTIES

2000°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00000	2.89733	3.89733	44.4285	-6.13537	1.00000
-6.80	1.00000	2.89732	3.89732	43.9680	-5.93537	1.00000
-6.60	1.00000	2.89732	3.89732	43.5075	-5.73537	1.00000
-6.40	1.00000	2.89732	3.89732	43.0469	-5.53537	1.00000
-6.20	1.00000	2.89731	3.89731	42.5864	-5.33537	1.00000
-6.00	1.00000	2.89731	3.89731	42.1259	-5.13537	1.00000
-5.80	1.00000	2.89731	3.89731	41.6654	-4.93537	1.00000
-5.60	1.00000	2.89731	3.89731	41.2049	-4.73537	1.00000
-5.40	1.00000	2.89731	3.89731	40.7443	-4.53537	1.00000
-5.20	1.00000	2.89730	3.89730	40.2838	-4.33537	1.00000
-5.00	1.00000	2.89730	3.89730	39.8233	-4.13537	1.00000
-4.80	1.00000	2.89730	3.89730	39.3628	-3.93537	1.00000
-4.60	1.00000	2.89730	3.89730	38.9023	-3.73537	1.00000
-4.40	1.00000	2.89730	3.89730	38.4417	-3.53537	1.00000
-4.20	1.00000	2.89730	3.89730	37.9812	-3.33537	1.00000
-4.00	1.00000	2.89730	3.89730	37.5207	-3.13537	1.00000
-3.80	1.00000	2.89730	3.89730	37.0602	-2.93537	1.00000
-3.60	1.00000	2.89730	3.89730	36.5997	-2.73537	1.00000
-3.40	1.00000	2.89730	3.89730	36.1392	-2.53537	1.00000
-3.20	1.00000	2.89730	3.89730	35.6786	-2.33537	1.00000
-3.00	1.00000	2.89730	3.89730	35.2181	-2.13537	1.00000
-2.80	1.00000	2.89730	3.89730	34.7576	-1.93537	1.00000
-2.60	1.00000	2.89730	3.89730	34.2971	-1.73537	1.00000
-2.40	1.00001	2.89730	3.89731	33.8366	-1.53537	1.00000
-2.20	1.00001	2.89730	3.89731	33.3760	-1.33537	1.00000
-2.00	1.00001	2.89730	3.89732	32.9155	-1.13536	1.00000
-1.80	1.00002	2.89730	3.89732	32.4550	-0.93536	1.00000
-1.60	1.00004	2.89730	3.89734	31.9945	-0.73535	1.00000
-1.40	1.00006	2.89730	3.89736	31.5339	-0.53534	1.00000
-1.20	1.00009	2.89730	3.89739	31.0734	-0.33533	1.00000
-1.00	1.00015	2.89729	3.89744	30.6128	-0.13531	1.00000
-0.80	1.00023	2.89729	3.89752	30.1522	0.06473	1.00000
-0.60	1.00037	2.89729	3.89766	29.6915	0.26479	1.00000
-0.40	1.00059	2.89728	3.89787	29.2308	0.46489	1.00000
-0.20	1.00093	2.89726	3.89820	28.7699	0.66504	1.00000
0.	1.00148	2.89724	3.89872	28.3088	0.86527	1.00000
0.20	1.00235	2.89720	3.89955	27.8474	1.06565	1.00000
0.40	1.00372	2.89714	3.90086	27.3855	1.26624	1.00000
0.60	1.00589	2.89705	3.90295	26.9227	1.46718	1.00000
0.80	1.00934	2.89691	3.90624	26.4586	1.66867	1.00000
1.00	1.01480	2.89668	3.91148	25.9924	1.87101	1.00000
1.20	1.02346	2.89631	3.91977	25.5228	2.07470	1.00000
1.40	1.03718	2.89573	3.93291	25.0480	2.28048	1.00000
1.60	1.05897	2.89482	3.95374	24.5648	2.48949	1.00000
1.80	1.09339	2.89337	3.98675	24.0684	2.70340	1.00000
2.00	1.14801	2.89106	4.03907	23.5510	2.92457	1.00000
2.20	1.23458	2.88742	4.12199	23.0002	3.15615	1.00000
2.40	1.37178	2.88163	4.25341	22.3967	3.40191	1.00000

1

TABLE H (Continued)
2100°K

LOG p/p_0	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.00000	2.91801	3.91801	44.5914	-6.11418	1.00000
-6.80	1.00000	2.91799	3.91799	44.1308	-5.91418	1.00000
-6.60	1.00000	2.91797	3.91797	43.6703	-5.71418	1.00000
-6.40	1.00000	2.91796	3.91796	43.2098	-5.51418	1.00000
-6.20	1.00000	2.91795	3.91795	42.7493	-5.31418	1.00000
-6.00	1.00000	2.91794	3.91794	42.2887	-5.11418	1.00000
-5.80	1.00000	2.91793	3.91793	41.8282	-4.91418	1.00000
-5.60	1.00000	2.91792	3.91792	41.3677	-4.71418	1.00000
-5.40	1.00000	2.91792	3.91792	40.9072	-4.51418	1.00000
-5.20	1.00000	2.91792	3.91792	40.4466	-4.31418	1.00000
-5.00	1.00000	2.91791	3.91791	39.9861	-4.11418	1.00000
-4.80	1.00000	2.91791	3.91791	39.5256	-3.91418	1.00000
-4.60	1.00000	2.91791	3.91791	39.0651	-3.71418	1.00000
-4.40	1.00000	2.91791	3.91791	38.6046	-3.51418	1.00000
-4.20	1.00000	2.91791	3.91791	38.1440	-3.31418	1.00000
-4.00	1.00000	2.91791	3.91791	37.6835	-3.11418	1.00000
-3.80	1.00000	2.91790	3.91791	37.2230	-2.91418	1.00000
-3.60	1.00000	2.91790	3.91790	36.7625	-2.71418	1.00000
-3.40	1.00000	2.91790	3.91790	36.3020	-2.51418	1.00000
-3.20	1.00000	2.91790	3.91790	35.8415	-2.31418	1.00000
-3.00	1.00000	2.91790	3.91790	35.3809	-2.11418	1.00000
-2.80	1.00000	2.91790	3.91791	34.9204	-1.91418	1.00000
-2.60	1.00000	2.91790	3.91791	34.4599	-1.71418	1.00000
-2.40	1.00001	2.91790	3.91791	33.9994	-1.51418	1.00000
-2.20	1.00001	2.91790	3.91791	33.5389	-1.31418	1.00000
-2.00	1.00001	2.91790	3.91792	33.0783	-1.11417	1.00000
-1.80	1.00002	2.91790	3.91793	32.6178	-0.91417	1.00000
-1.60	1.00004	2.91790	3.91794	32.1573	-0.71416	1.00000
-1.40	1.00006	2.91790	3.91796	31.6967	-0.51416	1.00000
-1.20	1.00009	2.91790	3.91799	31.2362	-0.31414	1.00000
-1.00	1.00015	2.91790	3.91805	30.7756	-0.11412	1.00000
-0.80	1.00023	2.91789	3.91813	30.3150	0.08592	1.00000
-0.60	1.00037	2.91789	3.91826	29.8543	0.28598	1.00000
-0.40	1.00059	2.91788	3.91847	29.3936	0.48608	1.00000
-0.20	1.00094	2.91787	3.91881	28.9327	0.68623	1.00000
0.	1.00148	2.91786	3.91934	28.4717	0.88646	1.00000
0.20	1.00235	2.91783	3.92018	28.0102	1.08684	1.00000
0.40	1.00372	2.91779	3.92151	27.5483	1.28743	1.00000
0.60	1.00590	2.91773	3.92363	27.0856	1.48837	1.00000
0.80	1.00936	2.91762	3.92698	26.6215	1.68986	1.00000
1.00	1.01483	2.91746	3.93229	26.1553	1.89221	1.00000
1.20	1.02350	2.91720	3.94070	25.6859	2.09591	1.00000
1.40	1.03724	2.91679	3.95403	25.2112	2.30170	1.00000
1.60	1.05903	2.91613	3.97516	24.7283	2.51073	1.00000
1.80	1.09355	2.91510	4.00865	24.2322	2.72466	1.00000
2.00	1.14827	2.91346	4.06173	23.7153	2.94586	1.00000
2.20	1.23499	2.91086	4.14585	23.1655	3.17748	1.00000
2.40	1.37243	2.90675	4.27918	22.5634	3.42331	1.00000

TABLE H (Continued)
2200°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00001	2.93876	3.93876	44.7476	-6.09397	1.00001
-6.80	1.00001	2.93868	3.93869	44.2870	-5.89397	1.00001
-6.60	1.00000	2.93863	3.93863	43.8265	-5.69398	1.00000
-6.40	1.00000	2.93858	3.93858	43.3659	-5.49398	1.00000
-6.20	1.00000	2.93854	3.93855	42.9053	-5.29398	1.00000
-6.00	1.00000	2.93851	3.93852	42.4448	-5.09398	1.00000
-5.80	1.00000	2.93849	3.93849	41.9842	-4.89398	1.00000
-5.60	1.00000	2.93847	3.93847	41.5237	-4.69398	1.00000
-5.40	1.00000	2.93846	3.93846	41.0632	-4.49398	1.00000
-5.20	1.00000	2.93845	3.93845	40.6026	-4.29398	1.00000
-5.00	1.00000	2.93844	3.93844	40.1421	-4.09398	1.00000
-4.80	1.00000	2.93843	3.93843	39.6816	-3.89398	1.00000
-4.60	1.00000	2.93842	3.93842	39.2211	-3.69398	1.00000
-4.40	1.00000	2.93842	3.93842	38.7606	-3.49398	1.00000
-4.20	1.00000	2.93841	3.93841	38.3000	-3.29398	1.00000
-4.00	1.00000	2.93841	3.93841	37.8395	-3.09398	1.00000
-3.80	1.00000	2.93841	3.93841	37.3790	-2.89398	1.00000
-3.60	1.00000	2.93841	3.93841	36.9185	-2.69398	1.00000
-3.40	1.00000	2.93841	3.93841	36.4580	-2.49398	1.00000
-3.20	1.00000	2.93841	3.93841	35.9974	-2.29398	1.00000
-3.00	1.00000	2.93840	3.93841	35.5369	-2.09398	1.00000
-2.80	1.00000	2.93840	3.93841	35.0764	-1.89398	1.00000
-2.60	1.00000	2.93840	3.93841	34.6159	-1.69398	1.00000
-2.40	1.00001	2.93840	3.93841	34.1554	-1.49397	1.00000
-2.20	1.00001	2.93840	3.93841	33.6948	-1.29397	1.00000
-2.00	1.00001	2.93840	3.93841	33.2343	-1.09397	1.00000
-1.80	1.00002	2.93840	3.93842	32.7738	-0.89397	1.00000
-1.60	1.00004	2.93840	3.93844	32.3133	-0.69396	1.00000
-1.40	1.00006	2.93840	3.93846	31.8527	-0.49395	1.00000
-1.20	1.00009	2.93840	3.93849	31.3922	-0.29394	1.00000
-1.00	1.00015	2.93840	3.93855	30.9316	-0.09391	1.00000
-0.80	1.00024	2.93840	3.93863	30.4710	0.10612	1.00000
-0.60	1.00037	2.93839	3.93877	30.0103	0.30618	1.00000
-0.40	1.00059	2.93839	3.93898	29.5496	0.50628	1.00000
-0.20	1.00094	2.93838	3.93932	29.0887	0.70643	1.00000
0.	1.00148	2.93837	3.93986	28.6276	0.90667	1.00000
0.20	1.00235	2.93836	3.94071	28.1662	1.10704	1.00000
0.40	1.00373	2.93833	3.94206	27.7043	1.30764	1.00000
0.60	1.00591	2.93829	3.94420	27.2416	1.50858	1.00000
0.80	1.00937	2.93822	3.94759	26.7775	1.71007	1.00000
1.00	1.01484	2.93812	3.95296	26.3115	1.91242	1.00000
1.20	1.02353	2.93795	3.96148	25.8421	2.11612	1.00000
1.40	1.03729	2.93769	3.97498	25.3675	2.32192	1.00000
1.60	1.05909	2.93728	3.99637	24.8848	2.53096	1.00000
1.80	1.09366	2.93662	4.03028	24.3891	2.74490	1.00000
2.00	1.14844	2.93558	4.08402	23.8727	2.96613	1.00000
2.20	1.23526	2.93394	4.16919	23.3238	3.19778	1.00000
2.40	1.37285	2.93132	4.30418	22.7230	3.44365	1.00000

TABLE H (Continued)
2300°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00002	2.95774	3.95776	44.8982	-6.07466	1.00002
-6.80	1.00002	2.95753	3.95755	44.4374	-5.87466	1.00002
-6.60	1.00001	2.95736	3.95737	43.9768	-5.67467	1.00001
-6.40	1.00001	2.95722	3.95723	43.5161	-5.47467	1.00001
-6.20	1.00001	2.95712	3.95712	43.0555	-5.27467	1.00001
-6.00	1.00001	2.95703	3.95704	42.5949	-5.07467	1.00001
-5.80	1.00001	2.95696	3.95697	42.1343	-4.87467	1.00001
-5.60	1.00000	2.95691	3.95691	41.6737	-4.67467	1.00000
-5.40	1.00000	2.95687	3.95687	41.2131	-4.47467	1.00000
-5.20	1.00000	2.95683	3.95683	40.7526	-4.27467	1.00000
-5.00	1.00000	2.95680	3.95681	40.2920	-4.07467	1.00000
-4.80	1.00000	2.95678	3.95678	39.8315	-3.87467	1.00000
-4.60	1.00000	2.95677	3.95677	39.3710	-3.67467	1.00000
-4.40	1.00000	2.95675	3.95675	38.9104	-3.47467	1.00000
-4.20	1.00000	2.95674	3.95674	38.4499	-3.27467	1.00000
-4.00	1.00000	2.95673	3.95673	37.9894	-3.07467	1.00000
-3.80	1.00000	2.95673	3.95673	37.5289	-2.87467	1.00000
-3.60	1.00000	2.95672	3.95672	37.0683	-2.67467	1.00000
-3.40	1.00000	2.95672	3.95672	36.6078	-2.47467	1.00000
-3.20	1.00000	2.95671	3.95671	36.1473	-2.27467	1.00000
-3.00	1.00000	2.95671	3.95671	35.6868	-2.07467	1.00000
-2.80	1.00000	2.95671	3.95671	35.2263	-1.87467	1.00000
-2.60	1.00000	2.95671	3.95671	34.7657	-1.67467	1.00000
-2.40	1.00001	2.95670	3.95671	34.3052	-1.47467	1.00000
-2.20	1.00001	2.95670	3.95671	33.8447	-1.27467	1.00000
-2.00	1.00001	2.95670	3.95672	33.3842	-1.07467	1.00000
-1.80	1.00002	2.95670	3.95673	32.9236	-0.87466	1.00000
-1.60	1.00004	2.95670	3.95674	32.4631	-0.67466	1.00000
-1.40	1.00006	2.95670	3.95676	32.0026	-0.47465	1.00000
-1.20	1.00009	2.95670	3.95679	31.5420	-0.27463	1.00000
-1.00	1.00015	2.95670	3.95685	31.0814	-0.07461	1.00000
-0.80	1.00024	2.95670	3.95693	30.6208	0.12543	1.00000
-0.60	1.00037	2.95670	3.95707	30.1602	0.32549	1.00000
-0.40	1.00059	2.95670	3.95729	29.6994	0.52558	1.00000
-0.20	1.00094	2.95669	3.95763	29.2386	0.72573	1.00000
0.	1.00149	2.95669	3.95817	28.7775	0.92597	1.00000
0.20	1.00235	2.95668	3.95903	28.3161	1.12635	1.00000
0.40	1.00373	2.95667	3.96040	27.8542	1.32694	1.00000
0.60	1.00591	2.95665	3.96256	27.3915	1.52789	1.00000
0.80	1.00937	2.95661	3.96599	26.9275	1.72938	1.00000
1.00	1.01485	2.95656	3.97142	26.4614	1.93173	1.00000
1.20	1.02354	2.95649	3.98003	25.9922	2.13543	1.00000
1.40	1.03731	2.95636	3.99367	25.5177	2.34124	1.00000
1.60	1.05913	2.95617	4.01530	25.0352	2.55028	1.00000
1.80	1.09372	2.95585	4.04957	24.5398	2.76423	1.00000
2.00	1.14853	2.95536	4.10388	24.0240	2.98547	1.00000
2.20	1.23540	2.95457	4.18997	23.4758	3.21714	1.00000
2.40	1.37309	2.95332	4.32641	22.8763	3.46303	1.00000

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TABLE H (Continued)
2400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.000006	2.97709	3.97715	45.0440	-6.05616	1.000006
-6.80	1.000005	2.97652	3.97657	44.5829	-5.85617	1.000005
-6.60	1.000004	2.97606	3.97610	44.1219	-5.65617	1.000004
-6.40	1.000003	2.97570	3.97573	43.6610	-5.45618	1.000003
-6.20	1.000002	2.97541	3.97544	43.2002	-5.25618	1.000002
-6.00	1.000002	2.97519	3.97520	42.7395	-5.05618	1.000002
-5.80	1.000001	2.97501	3.97502	42.2788	-4.85618	1.000001
-5.60	1.000001	2.97486	3.97487	41.8181	-4.65618	1.000001
-5.40	1.000001	2.97475	3.97476	41.3575	-4.45618	1.000001
-5.20	1.000001	2.97466	3.97466	40.8969	-4.25619	1.000001
-5.00	1.000001	2.97458	3.97459	40.4363	-4.05619	1.000001
-4.80	1.000000	2.97453	3.97453	39.9757	-3.85619	1.000000
-4.60	1.000000	2.97448	3.97448	39.5151	-3.65619	1.000000
-4.40	1.000000	2.97444	3.97445	39.0546	-3.45619	1.000000
-4.20	1.000000	2.97442	3.97442	38.5940	-3.25619	1.000000
-4.00	1.000000	2.97439	3.97439	38.1335	-3.05619	1.000000
-3.80	1.000000	2.97437	3.97438	37.6729	-2.85619	1.000000
-3.60	1.000000	2.97436	3.97436	37.2124	-2.65619	1.000000
-3.40	1.000000	2.97435	3.97435	36.7519	-2.45619	1.000000
-3.20	1.000000	2.97434	3.97434	36.2914	-2.25619	1.000000
-3.00	1.000000	2.97433	3.97433	35.8308	-2.05619	1.000000
-2.80	1.000000	2.97433	3.97433	35.3703	-1.85619	1.000000
-2.60	1.000000	2.97432	3.97433	34.9098	-1.65619	1.000000
-2.40	1.000001	2.97432	3.97433	34.4493	-1.45619	1.000000
-2.20	1.000001	2.97432	3.97432	33.9887	-1.25618	1.000000
-2.00	1.000002	2.97431	3.97433	33.5282	-1.05618	1.000000
-1.80	1.000002	2.97431	3.97433	33.0677	-0.85618	1.000000
-1.60	1.000004	2.97431	3.97435	32.6072	-0.65617	1.000000
-1.40	1.000006	2.97431	3.97437	32.1466	-0.45616	1.000000
-1.20	1.000009	2.97431	3.97440	31.6861	-0.25615	1.000000
-1.00	1.000015	2.97431	3.97446	31.2255	-0.05612	1.000000
-0.80	1.000024	2.97431	3.97454	30.7649	0.14391	1.000000
-0.60	1.000037	2.97431	3.97468	30.3042	0.34397	1.000000
-0.40	1.000059	2.97431	3.97490	29.8435	0.54407	1.000000
-0.20	1.000094	2.97431	3.97524	29.3826	0.74422	1.000000
0.	1.000149	2.97431	3.97579	28.9216	0.94446	1.000000
0.20	1.000235	2.97431	3.97666	28.4602	1.14483	1.000000
0.40	1.000373	2.97431	3.97804	27.9983	1.34543	1.000000
0.60	1.000591	2.97431	3.98022	27.5356	1.54637	1.000000
0.80	1.000937	2.97430	3.98368	27.0716	1.74786	1.000000
1.00	1.01486	2.97430	3.98916	26.6056	1.95027	1.000000
1.20	1.02354	2.97430	3.99785	26.1364	2.15392	1.000000
1.40	1.03732	2.97430	4.01162	25.6621	2.35972	1.000000
1.60	1.05914	2.97430	4.03345	25.1798	2.56876	1.000000
1.80	1.09373	2.97430	4.06804	24.6847	2.78272	1.000000
2.00	1.14856	2.97430	4.12286	24.1693	3.00396	1.000000
2.20	1.23545	2.97430	4.20975	23.6219	3.23563	1.000000
2.40	1.37316	2.97430	4.34746	23.0237	3.48153	1.000000

TABLE H (Continued)

2500°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00015	2.99878	3.99893	45.1871	-6.03839	1.00015
-6.80	1.00012	2.99736	3.99748	44.7251	-5.83841	1.00012
-6.60	1.00010	2.99624	3.99634	44.2634	-5.63842	1.00010
-6.40	1.00008	2.99535	3.99543	43.8020	-5.43843	1.00008
-6.20	1.00006	2.99464	3.99470	43.3407	-5.23843	1.00006
-6.00	1.00005	2.99408	3.99413	42.8796	-5.03844	1.00005
-5.80	1.00004	2.99363	3.99367	42.4186	-4.83844	1.00004
-5.60	1.00003	2.99327	3.99330	41.9577	-4.63845	1.00003
-5.40	1.00002	2.99299	3.99302	41.4969	-4.43845	1.00002
-5.20	1.00002	2.99277	3.99279	41.0362	-4.23845	1.00002
-5.00	1.00002	2.99259	3.99260	40.5755	-4.03845	1.00002
-4.80	1.00001	2.99245	3.99246	40.1148	-3.83845	1.00001
-4.60	1.00001	2.99234	3.99234	39.6542	-3.63846	1.00001
-4.40	1.00001	2.99225	3.99225	39.1936	-3.43846	1.00001
-4.20	1.00001	2.99218	3.99218	38.7330	-3.23846	1.00001
-4.00	1.00000	2.99212	3.99213	38.2724	-3.03846	1.00000
-3.80	1.00000	2.99207	3.99208	37.8118	-2.83846	1.00000
-3.60	1.00000	2.99204	3.99204	37.3513	-2.63846	1.00000
-3.40	1.00000	2.99201	3.99201	36.8907	-2.43846	1.00000
-3.20	1.00000	2.99199	3.99199	36.4302	-2.23846	1.00000
-3.00	1.00000	2.99197	3.99197	35.9697	-2.03846	1.00000
-2.80	1.00000	2.99196	3.99196	35.5091	-1.83846	1.00000
-2.60	1.00000	2.99195	3.99195	35.0486	-1.63846	1.00000
-2.40	1.00001	2.99194	3.99194	34.5881	-1.43846	1.00000
-2.20	1.00001	2.99193	3.99194	34.1275	-1.23846	1.00000
-2.00	1.00002	2.99192	3.99194	33.6670	-1.03845	1.00000
-1.80	1.00002	2.99192	3.99194	33.2065	-0.83845	1.00000
-1.60	1.00004	2.99192	3.99195	32.7459	-0.63844	1.00000
-1.40	1.00006	2.99191	3.99197	32.2854	-0.43843	1.00000
-1.20	1.00009	2.99191	3.99200	31.8248	-0.23842	1.00000
-1.00	1.00015	2.99191	3.99206	31.3643	-0.03840	1.00000
-0.80	1.00024	2.99191	3.99214	30.9037	0.16164	1.00000
-0.60	1.00037	2.99191	3.99228	30.4430	0.36170	1.00000
-0.40	1.00059	2.99191	3.99250	29.9823	0.56180	1.00000
-0.20	1.00094	2.99191	3.99285	29.5214	0.76195	1.00000
0.	1.00149	2.99192	3.99340	29.0604	0.96218	1.00000
0.20	1.00235	2.99192	3.99428	28.5990	1.16256	1.00000
0.40	1.00373	2.99193	3.99566	28.1371	1.36316	1.00000
0.60	1.00591	2.99195	3.99786	27.6744	1.56410	1.00000
0.80	1.00937	2.99198	4.00135	27.2105	1.76559	1.00000
1.00	1.01485	2.99203	4.00688	26.7445	1.96794	1.00000
1.20	1.02354	2.99210	4.01564	26.2754	2.17164	1.00000
1.40	1.03731	2.99221	4.02952	25.8012	2.37745	1.00000
1.60	1.05913	2.99239	4.05152	25.3190	2.58649	1.00000
1.80	1.09372	2.99268	4.08639	24.8242	2.80044	1.00000
2.00	1.14853	2.99313	4.14166	24.3094	3.02168	1.00000
2.20	1.23541	2.99385	4.22925	23.7627	3.25335	1.00000
2.40	1.37309	2.99499	4.36808	23.1656	3.49924	1.00000

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TABLE H (Continued)

2600°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00036	3.02360	4.02396	45.3301	-6.02127	1.00036
-6.80	1.00029	3.02035	4.02064	44.8662	-5.82130	1.00029
-6.60	1.00023	3.01777	4.01800	44.4030	-5.62133	1.00023
-6.40	1.00018	3.01572	4.01590	43.9403	-5.42135	1.00018
-6.20	1.00014	3.01409	4.01423	43.4781	-5.22136	1.00014
-6.00	1.00011	3.01280	4.01291	43.0162	-5.02138	1.00011
-5.80	1.00009	3.01177	4.01186	42.5546	-4.82139	1.00009
-5.60	1.00007	3.01095	4.01103	42.0933	-4.62140	1.00007
-5.40	1.00006	3.01030	4.01036	41.6321	-4.42140	1.00006
-5.20	1.00005	3.00979	4.00984	41.1710	-4.22141	1.00005
-5.00	1.00004	3.00938	4.00942	40.7101	-4.02141	1.00004
-4.80	1.00003	3.00906	4.00908	40.2492	-3.82141	1.00003
-4.60	1.00002	3.00880	4.00882	39.7884	-3.62142	1.00002
-4.40	1.00002	3.00859	4.00861	39.3277	-3.42142	1.00002
-4.20	1.00001	3.00843	4.00844	38.8670	-3.22142	1.00001
-4.00	1.00001	3.00830	4.00831	38.4064	-3.02142	1.00001
-3.80	1.00001	3.00820	4.00821	37.9457	-2.82142	1.00001
-3.60	1.00001	3.00812	4.00812	37.4851	-2.62142	1.00001
-3.40	1.00001	3.00805	4.00806	37.0246	-2.42142	1.00001
-3.20	1.00001	3.00800	4.00801	36.5640	-2.22142	1.00000
-3.00	1.00001	3.00796	4.00796	36.1034	-2.02142	1.00000
-2.80	1.00001	3.00793	4.00793	35.6429	-1.82142	1.00000
-2.60	1.00001	3.00790	4.00791	35.1823	-1.62142	1.00000
-2.40	1.00001	3.00788	4.00789	34.7218	-1.42142	1.00000
-2.20	1.00001	3.00786	4.00787	34.2612	-1.22142	1.00000
-2.00	1.00002	3.00785	4.00787	33.8007	-1.02142	1.00000
-1.80	1.00002	3.00784	4.00786	33.3402	-0.82142	1.00000
-1.60	1.00004	3.00783	4.00787	32.8796	-0.62141	1.00000
-1.40	1.00006	3.00783	4.00789	32.4191	-0.42140	1.00000
-1.20	1.00009	3.00782	4.00792	31.9585	-0.22139	1.00000
-1.00	1.00015	3.00782	4.00797	31.4980	-0.02136	1.00000
-0.80	1.00024	3.00782	4.00805	31.0374	0.17868	1.00000
-0.60	1.00037	3.00782	4.00819	30.5767	0.37874	1.00000
-0.40	1.00059	3.00782	4.00841	30.1160	0.57883	1.00000
-0.20	1.00094	3.00782	4.00876	29.6551	0.77898	1.00000
0.	1.00148	3.00783	4.00931	29.1940	0.97922	1.00000
0.20	1.00235	3.00784	4.01020	28.7327	1.17959	1.00000
0.40	1.00373	3.00786	4.01159	28.2708	1.38019	1.00000
0.60	1.00591	3.00790	4.01381	27.8081	1.58113	1.00000
0.80	1.00937	3.00795	4.01732	27.3442	1.78267	1.00000
1.00	1.01485	3.00804	4.02288	26.8783	1.98497	1.00000
1.20	1.02353	3.00817	4.03170	26.4093	2.18867	1.00000
1.40	1.03729	3.00839	4.04568	25.9352	2.39447	1.00000
1.60	1.05910	3.00874	4.06784	25.4532	2.60351	1.00000
1.80	1.09367	3.00929	4.10296	24.9587	2.81746	1.00000
2.00	1.14846	3.01016	4.15862	24.4442	3.03869	1.00000
2.20	1.23529	3.01153	4.24683	23.8983	3.27034	1.00000
2.40	1.37292	3.01372	4.38664	23.3023	3.51622	1.00000

TABLE H (Continued)
2700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00081	3.05674	4.05755	45.4784	-6.00468	1.00081
-6.80	1.00064	3.04974	4.05038	45.0106	-5.80476	1.00064
-6.60	1.00051	3.04418	4.04469	44.5442	-5.60481	1.00051
-6.40	1.00041	3.03976	4.04017	44.0791	-5.40486	1.00041
-6.20	1.00032	3.03625	4.03658	43.6149	-5.20490	1.00032
-6.00	1.00026	3.03347	4.03372	43.1515	-5.00492	1.00026
-5.80	1.00020	3.03125	4.03146	42.6886	-4.80495	1.00020
-5.60	1.00016	3.02949	4.02965	42.2263	-4.60497	1.00016
-5.40	1.00013	3.02810	4.02822	41.7643	-4.40498	1.00013
-5.20	1.00010	3.02699	4.02709	41.3026	-4.20499	1.00010
-5.00	1.00008	3.02610	4.02619	40.8412	-4.00500	1.00008
-4.80	1.00006	3.02540	4.02547	40.3799	-3.80501	1.00006
-4.60	1.00005	3.02485	4.02490	39.9188	-3.60501	1.00005
-4.40	1.00004	3.02441	4.02445	39.4578	-3.40502	1.00004
-4.20	1.00003	3.02406	4.02409	38.9969	-3.20502	1.00003
-4.00	1.00003	3.02378	4.02380	38.5361	-3.00503	1.00003
-3.80	1.00002	3.02355	4.02358	38.0754	-2.80503	1.00002
-3.60	1.00002	3.02338	4.02340	37.6147	-2.60503	1.00002
-3.40	1.00001	3.02324	4.02325	37.1540	-2.40503	1.00001
-3.20	1.00001	3.02313	4.02314	36.6934	-2.20503	1.00001
-3.00	1.00001	3.02304	4.02305	36.2328	-2.00503	1.00001
-2.80	1.00001	3.02297	4.02298	35.7722	-1.80503	1.00001
-2.60	1.00001	3.02291	4.02292	35.3116	-1.60503	1.00001
-2.40	1.00001	3.02287	4.02288	34.8510	-1.40503	1.00000
-2.20	1.00001	3.02283	4.02285	34.3905	-1.20503	1.00000
-2.00	1.00002	3.02281	4.02282	33.9299	-1.00503	1.00000
-1.80	1.00003	3.02279	4.02281	33.4694	-0.80503	1.00000
-1.60	1.00004	3.02277	4.02281	33.0088	-0.60502	1.00000
-1.40	1.00006	3.02275	4.02281	32.5483	-0.40501	1.00000
-1.20	1.00009	3.02274	4.02284	32.0877	-0.20500	1.00000
-1.00	1.00015	3.02274	4.02289	31.6271	-0.00497	1.00000
-0.80	1.00024	3.02273	4.02297	31.1665	0.19507	1.00000
-0.60	1.00037	3.02273	4.02310	30.7059	0.39513	1.00000
-0.40	1.00059	3.02273	4.02332	30.2451	0.59527	1.00000
-0.20	1.00094	3.02273	4.02367	29.7843	0.79537	1.00000
0.	1.00148	3.02274	4.02423	29.3232	0.99561	1.00000
0.20	1.00235	3.02276	4.02511	28.8619	1.19598	1.00000
0.40	1.00373	3.02279	4.02652	28.4000	1.39658	1.00000
0.60	1.00591	3.02284	4.02875	27.9373	1.59752	1.00000
0.80	1.00936	3.02292	4.03228	27.4735	1.79901	1.00000
1.00	1.01484	3.02304	4.03788	27.0076	2.00136	1.00000
1.20	1.02351	3.02324	4.04675	26.5386	2.20506	1.00000
1.40	1.03726	3.02355	4.06082	26.0646	2.41085	1.00000
1.60	1.05906	3.02405	4.08311	25.5828	2.61988	1.00000
1.80	1.09360	3.02484	4.11845	25.0886	2.83382	1.00000
2.00	1.14835	3.02609	4.17445	24.5745	3.05504	1.00000
2.20	1.23512	3.02808	4.26320	24.0292	3.28667	1.00000
2.40	1.37264	3.03123	4.40387	23.4343	3.53252	1.00000

TABLE H (Continued)

2800°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00172	3.10724	4.10896	45.6404	-5.98850	1.00172
-6.80	1.00136	3.09299	4.09435	45.1649	-5.78865	1.00136
-6.60	1.00108	3.08166	4.08275	44.6925	-5.58877	1.00108
-6.40	1.00086	3.07267	4.07353	44.2225	-5.38887	1.00086
-6.20	1.00068	3.06552	4.06620	43.7545	-5.18895	1.00068
-6.00	1.00054	3.05984	4.06038	43.2880	-4.98901	1.00054
-5.80	1.00043	3.05533	4.05576	42.8228	-4.78905	1.00043
-5.60	1.00034	3.05174	4.05209	42.3585	-4.58909	1.00034
-5.40	1.00027	3.04890	4.04917	41.8950	-4.38912	1.00027
-5.20	1.00022	3.04663	4.04685	41.4321	-4.18915	1.00022
-5.00	1.00017	3.04484	4.04501	40.9697	-3.98917	1.00017
-4.80	1.00014	3.04341	4.04355	40.5077	-3.78918	1.00014
-4.60	1.00011	3.04228	4.04239	40.0460	-3.58920	1.00011
-4.40	1.00009	3.04138	4.04146	39.5845	-3.38920	1.00009
-4.20	1.00007	3.04066	4.04073	39.1233	-3.18921	1.00007
-4.00	1.00005	3.04009	4.04015	38.6621	-2.98922	1.00005
-3.80	1.00004	3.03964	4.03968	38.2011	-2.78922	1.00004
-3.60	1.00003	3.03928	4.03932	37.7403	-2.58923	1.00003
-3.40	1.00003	3.03900	4.03903	37.2794	-2.38923	1.00003
-3.20	1.00002	3.03877	4.03879	36.8187	-2.18923	1.00002
-3.00	1.00002	3.03859	4.03861	36.3580	-1.98923	1.00002
-2.80	1.00002	3.03845	4.03846	35.8973	-1.78924	1.00001
-2.60	1.00001	3.03834	4.03835	35.4367	-1.58924	1.00001
-2.40	1.00001	3.03825	4.03826	34.9761	-1.38924	1.00001
-2.20	1.00002	3.03817	4.03819	34.5155	-1.18924	1.00001
-2.00	1.00002	3.03812	4.03814	34.0549	-0.98923	1.00001
-1.80	1.00003	3.03807	4.03810	33.5943	-0.78923	1.00000
-1.60	1.00004	3.03804	4.03808	33.1337	-0.58922	1.00000
-1.40	1.00006	3.03801	4.03807	32.6732	-0.38922	1.00000
-1.20	1.00010	3.03799	4.03808	32.2126	-0.18920	1.00000
-1.00	1.00015	3.03797	4.03812	31.7520	0.01082	1.00000
-0.80	1.00024	3.03796	4.03820	31.2914	0.21086	1.00000
-0.60	1.00037	3.03795	4.03832	30.8307	0.41092	1.00000
-0.40	1.00059	3.03795	4.03854	30.3700	0.61101	1.00000
-0.20	1.00094	3.03795	4.03889	29.9091	0.81116	1.00000
0.	1.00148	3.03796	4.03945	29.4481	1.01140	1.00000
0.20	1.00235	3.03798	4.04033	28.9867	1.21178	1.00000
0.40	1.00372	3.03802	4.04174	28.5249	1.41237	1.00000
0.60	1.00590	3.03808	4.04398	28.0622	1.61331	1.00000
0.80	1.00935	3.03818	4.04753	27.5984	1.81480	1.00000
1.00	1.01482	3.03834	4.05316	27.1325	2.01715	1.00000
1.20	1.02349	3.03859	4.06208	26.6636	2.22084	1.00000
1.40	1.03723	3.03899	4.07622	26.1897	2.42663	1.00000
1.60	1.05900	3.03963	4.09864	25.7081	2.63566	1.00000
1.80	1.09352	3.04065	4.13416	25.2141	2.84958	1.00000
2.00	1.14821	3.04225	4.19046	24.7005	3.07078	1.00000
2.20	1.23490	3.04480	4.27970	24.1558	3.30239	1.00000
2.40	1.37229	3.04883	4.42112	23.5619	3.54820	1.00000

TABLE H (Continued)

2900°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.00344	3.18591	4.18935	45.8294	-5.97751	1.00344
-6.80	1.00273	3.15835	4.16108	45.3399	-5.77282	1.00273
-6.60	1.00217	3.13644	4.13861	44.8563	-5.57306	1.00217
-6.40	1.00173	3.11902	4.12075	44.3775	-5.37325	1.00173
-6.20	1.00137	3.10519	4.10656	43.9025	-5.17341	1.00137
-6.00	1.00109	3.09419	4.09528	43.4304	-4.97353	1.00109
-5.80	1.00087	3.08546	4.08632	42.9607	-4.77363	1.00087
-5.60	1.00069	3.07852	4.07921	42.4929	-4.57370	1.00069
-5.40	1.00055	3.07301	4.07355	42.0266	-4.37376	1.00055
-5.20	1.00043	3.06863	4.06906	41.5614	-4.17381	1.00043
-5.00	1.00034	3.06515	4.06549	41.0973	-3.97385	1.00034
-4.80	1.00027	3.06238	4.06266	40.6338	-3.77388	1.00027
-4.60	1.00022	3.06019	4.06040	40.1710	-3.57391	1.00022
-4.40	1.00017	3.05844	4.05861	39.7087	-3.37393	1.00017
-4.20	1.00014	3.05706	4.05719	39.2467	-3.17394	1.00014
-4.00	1.00011	3.05596	4.05606	38.7850	-2.97395	1.00011
-3.80	1.00009	3.05508	4.05517	38.3236	-2.77396	1.00009
-3.60	1.00007	3.05439	4.05446	37.8623	-2.57397	1.00007
-3.40	1.00006	3.05384	4.05389	37.4012	-2.37398	1.00006
-3.20	1.00004	3.05340	4.05344	36.9403	-2.17398	1.00004
-3.00	1.00004	3.05305	4.05309	36.4794	-1.97399	1.00003
-2.80	1.00003	3.05277	4.05280	36.0186	-1.77399	1.00003
-2.60	1.00003	3.05255	4.05258	35.5578	-1.57399	1.00002
-2.40	1.00002	3.05238	4.05240	35.0971	-1.37399	1.00002
-2.20	1.00002	3.05224	4.05226	34.6364	-1.17399	1.00001
-2.00	1.00003	3.05213	4.05216	34.1758	-0.97399	1.00001
-1.80	1.00003	3.05204	4.05208	33.7152	-0.77399	1.00001
-1.60	1.00004	3.05197	4.05202	33.2546	-0.57398	1.00001
-1.40	1.00006	3.05192	4.05198	32.7940	-0.37397	1.00001
-1.20	1.00010	3.05188	4.05197	32.3334	-0.17396	1.00000
-1.00	1.00015	3.05184	4.05200	31.8728	0.02606	1.00000
-0.80	1.00024	3.05182	4.05206	31.4122	0.22610	1.00000
-0.60	1.00037	3.05180	4.05218	30.9515	0.42616	1.00000
-0.40	1.00059	3.05179	4.05238	30.4907	0.62625	1.00000
-0.20	1.00094	3.05179	4.05273	30.0299	0.82640	1.00000
0.	1.00148	3.05180	4.05328	29.5688	1.02664	1.00000
0.20	1.00235	3.05182	4.05417	29.1075	1.22702	1.00000
0.40	1.00372	3.05186	4.05558	28.6456	1.42761	1.00000
0.60	1.00589	3.05193	4.05783	28.1830	1.62855	1.00000
0.80	1.00934	3.05205	4.06139	27.7191	1.83004	1.00000
1.00	1.01480	3.05224	4.06705	27.2534	2.03238	1.00000
1.20	1.02346	3.05254	4.07601	26.7845	2.23607	1.00000
1.40	1.03719	3.05303	4.09022	26.3107	2.44185	1.00000
1.60	1.05894	3.05380	4.11273	25.8297	2.65087	1.00000
1.80	1.09341	3.05502	4.14842	25.3355	2.86478	1.00000
2.00	1.14804	3.05695	4.20499	24.8222	3.08596	1.00000
2.20	1.23463	3.06001	4.29465	24.2782	3.31754	1.00000
2.40	1.37187	3.06487	4.43674	23.6853	3.56331	1.00000

TABLE H (Continued)
3000°K

LOG ρ/ρ_0	γ	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.00658	3.31257	4.31915	46.0665	-5.95643	1.00658
-6.80	1.00523	3.26170	4.26693	45.5524	-5.75701	1.00523
-6.60	1.00416	3.22125	4.22541	45.0492	-5.55748	1.00416
-6.40	1.00330	3.18908	4.19239	44.5548	-5.35785	1.00330
-6.20	1.00262	3.16351	4.16614	44.0674	-5.15814	1.00262
-6.00	1.00209	3.14319	4.14528	43.5855	-4.95837	1.00209
-5.80	1.00166	3.12704	4.12870	43.1080	-4.75856	1.00166
-5.60	1.00132	3.11421	4.11552	42.6339	-4.55871	1.00132
-5.40	1.00105	3.10401	4.10505	42.1627	-4.35883	1.00105
-5.20	1.00083	3.09591	4.09674	41.6936	-4.15892	1.00083
-5.00	1.00066	3.08947	4.09013	41.2263	-3.95899	1.00066
-4.80	1.00052	3.08436	4.08488	40.7604	-3.75905	1.00052
-4.60	1.00042	3.08029	4.08071	40.2956	-3.55910	1.00042
-4.40	1.00033	3.07707	4.07740	39.8317	-3.35914	1.00033
-4.20	1.00026	3.07450	4.07477	39.3685	-3.15916	1.00026
-4.00	1.00021	3.07246	4.07267	38.9058	-2.95919	1.00021
-3.80	1.00017	3.07085	4.07101	38.4436	-2.75921	1.00017
-3.60	1.00013	3.06956	4.06969	37.9817	-2.55922	1.00013
-3.40	1.00011	3.06854	4.06865	37.5201	-2.35923	1.00011
-3.20	1.00008	3.06773	4.06781	37.0588	-2.15924	1.00008
-3.00	1.00007	3.06709	4.06715	36.5976	-1.95925	1.00007
-2.80	1.00005	3.06658	4.06663	36.1365	-1.75926	1.00005
-2.60	1.00005	3.06617	4.06621	35.6756	-1.55926	1.00004
-2.40	1.00004	3.06585	4.06588	35.2147	-1.35926	1.00003
-2.20	1.00004	3.06559	4.06562	34.7539	-1.15926	1.00003
-2.00	1.00004	3.06539	4.06542	34.2932	-0.95926	1.00002
-1.80	1.00004	3.06522	4.06526	33.8325	-0.75926	1.00002
-1.60	1.00005	3.06510	4.06515	33.3718	-0.55926	1.00001
-1.40	1.00007	3.06500	4.06506	32.9112	-0.35925	1.00001
-1.20	1.00010	3.06492	4.06502	32.4505	-0.15923	1.00001
-1.00	1.00015	3.06485	4.06501	31.9899	0.04079	1.00001
-0.80	1.00024	3.06481	4.06505	31.5293	0.24083	1.00001
-0.60	1.00038	3.06477	4.06515	31.0686	0.44088	1.00000
-0.40	1.00059	3.06475	4.06534	30.6078	0.64098	1.00000
-0.20	1.00094	3.06474	4.06567	30.1469	0.84113	1.00000
0.	1.00148	3.06474	4.06622	29.6859	1.04136	1.00000
0.20	1.00234	3.06476	4.06710	29.2245	1.24174	1.00000
0.40	1.00372	3.06480	4.06852	28.7627	1.44233	1.00000
0.60	1.00589	3.06483	4.07077	28.3001	1.64327	1.00000
0.80	1.00933	3.06501	4.07434	27.8362	1.84475	1.00000
1.00	1.01479	3.06523	4.08002	27.3705	2.04710	1.00000
1.20	1.02343	3.06558	4.08901	26.9017	2.25078	1.00000
1.40	1.03714	3.06614	4.10328	26.4280	2.45656	1.00000
1.60	1.05886	3.06707	4.12589	25.9466	2.66556	1.00000
1.80	1.09329	3.06843	4.16172	25.4531	2.87946	1.00000
2.00	1.14785	3.07067	4.21852	24.9403	3.10061	1.00000
2.20	1.23433	3.07422	4.30854	24.3968	3.33215	1.00000
2.40	1.37139	3.07984	4.45122	23.8049	3.57788	1.00000

TABLE H (Continued)

3100°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.01205	3.51720	4.52925	46.3823	-5.93984	1.01205
-6.80	1.00958	3.42726	4.43685	45.8269	-5.74090	1.00958
-6.60	1.00762	3.35567	4.36329	45.2908	-5.54174	1.00762
-6.40	1.00606	3.29869	4.30475	44.7702	-5.34242	1.00606
-6.20	1.00481	3.25337	4.25818	44.2619	-5.14295	1.00481
-6.00	1.00383	3.21733	4.22116	43.7633	-4.94338	1.00383
-5.80	1.00304	3.18868	4.19172	43.2726	-4.74372	1.00304
-5.60	1.00242	3.16590	4.16832	42.7880	-4.54399	1.00242
-5.40	1.00192	3.14780	4.14972	42.3084	-4.34421	1.00192
-5.20	1.00153	3.13341	4.13494	41.8327	-4.14438	1.00153
-5.00	1.00121	3.12198	4.12319	41.3601	-3.94451	1.00121
-4.80	1.00096	3.11290	4.11386	40.8900	-3.74462	1.00096
-4.60	1.00076	3.10568	4.10645	40.4219	-3.54471	1.00076
-4.40	1.00061	3.09995	4.10056	39.9554	-3.34477	1.00061
-4.20	1.00048	3.09540	4.09588	39.4900	-3.14483	1.00048
-4.00	1.00038	3.09178	4.09216	39.0257	-2.94487	1.00038
-3.80	1.00030	3.08890	4.08921	38.5621	-2.74491	1.00030
-3.60	1.00024	3.08662	4.08686	38.0992	-2.54493	1.00024
-3.40	1.00019	3.08481	4.08500	37.6368	-2.34495	1.00019
-3.20	1.00015	3.08337	4.08352	37.1748	-2.14497	1.00015
-3.00	1.00012	3.08222	4.08234	36.7130	-1.94499	1.00012
-2.80	1.00010	3.08131	4.08141	36.2516	-1.74500	1.00010
-2.60	1.00008	3.08059	4.08067	35.7903	-1.54500	1.00008
-2.40	1.00007	3.08002	4.08008	35.3292	-1.34501	1.00006
-2.20	1.00006	3.07956	4.07962	34.8681	-1.14501	1.00005
-2.00	1.00005	3.07920	4.07925	34.4072	-0.94502	1.00004
-1.80	1.00005	3.07891	4.07897	33.9464	-0.74502	1.00003
-1.60	1.00006	3.07868	4.07875	33.4856	-0.54501	1.00002
-1.40	1.00008	3.07850	4.07858	33.0249	-0.34500	1.00002
-1.20	1.00011	3.07836	4.07847	32.5642	-0.14499	1.00002
-1.00	1.00016	3.07825	4.07841	32.1035	0.05503	1.00001
-0.80	1.00024	3.07816	4.07841	31.6428	0.25507	1.00001
-0.60	1.00038	3.07810	4.07848	31.1821	0.45513	1.00001
-0.40	1.00059	3.07805	4.07864	30.7213	0.65522	1.00001
-0.20	1.00094	3.07802	4.07896	30.2604	0.85537	1.00000
0.	1.00148	3.07801	4.07949	29.7994	1.05560	1.00000
0.20	1.00234	3.07802	4.08036	29.3380	1.25598	1.00000
0.40	1.00371	3.07806	4.08177	28.8761	1.45657	1.00000
0.60	1.00588	3.07814	4.08402	28.4135	1.65751	1.00000
0.80	1.00932	3.07829	4.08760	27.9497	1.85899	1.00000
1.00	1.01477	3.07853	4.09329	27.4840	2.06133	1.00000
1.20	1.02340	3.07892	4.10232	27.0152	2.26501	1.00000
1.40	1.03709	3.07954	4.11663	26.5417	2.47078	1.00000
1.60	1.05878	3.08054	4.13932	26.0604	2.67977	1.00000
1.80	1.09315	3.08213	4.17528	25.5671	2.89364	1.00000
2.00	1.14764	3.08464	4.23228	25.0547	3.11477	1.00000
2.20	1.23399	3.08864	4.32263	24.5118	3.34527	1.00000
2.40	1.37085	3.09497	4.46582	23.9207	3.59195	1.00000

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TABLE H (Continued)

3200°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.02120	3.83816	4.85936	46.8199	-5.92214	1.02120
-6.80	1.01688	3.68551	4.70239	46.1980	-5.72398	1.01688
-6.60	1.01343	3.56378	4.57721	45.6089	-5.52546	1.01343
-6.40	1.01068	3.46678	4.47746	45.0458	-5.32664	1.01068
-6.20	1.00849	3.38954	4.39803	44.5036	-5.12758	1.00849
-6.00	1.00675	3.32806	4.33481	43.9782	-4.92833	1.00675
-5.80	1.00537	3.27915	4.28452	43.4660	-4.72893	1.00537
-5.60	1.00427	3.24025	4.24452	42.9643	-4.52940	1.00427
-5.40	1.00339	3.20932	4.21271	42.4711	-4.32978	1.00339
-5.20	1.00269	3.18473	4.18742	41.9846	-4.13008	1.00269
-5.00	1.00214	3.16519	4.16733	41.5035	-3.93032	1.00214
-4.80	1.00170	3.14966	4.15136	41.0265	-3.73051	1.00170
-4.60	1.00135	3.13731	4.13866	40.5530	-3.53066	1.00135
-4.40	1.00107	3.12751	4.12858	40.0821	-3.33078	1.00107
-4.20	1.00085	3.11972	4.12057	39.6133	-3.13088	1.00085
-4.00	1.00068	3.11352	4.11420	39.1463	-2.93096	1.00068
-3.80	1.00054	3.10861	4.10915	38.6806	-2.73102	1.00054
-3.60	1.00043	3.10470	4.10513	38.2159	-2.53106	1.00043
-3.40	1.00034	3.10160	4.10194	37.7521	-2.33110	1.00034
-3.20	1.00027	3.09913	4.09940	37.2890	-2.13113	1.00027
-3.00	1.00022	3.09717	4.09739	36.8264	-1.93116	1.00021
-2.80	1.00017	3.09562	4.09579	36.3643	-1.73118	1.00017
-2.60	1.00014	3.09438	4.09452	35.9024	-1.53119	1.00014
-2.40	1.00011	3.09340	4.09351	35.4409	-1.33120	1.00011
-2.20	1.00009	3.09267	4.09271	34.9795	-1.13121	1.00009
-2.00	1.00008	3.09200	4.09208	34.5184	-0.93121	1.00007
-1.80	1.00008	3.09151	4.09159	34.0573	-0.73122	1.00005
-1.60	1.00008	3.09112	4.09120	33.5964	-0.53122	1.00004
-1.40	1.00009	3.09081	4.09090	33.1355	-0.33121	1.00003
-1.20	1.00012	3.09056	4.09068	32.6747	-0.13120	1.00003
-1.00	1.00017	3.09037	4.09054	32.2139	0.06882	1.00002
-0.80	1.00025	3.09022	4.09047	31.7531	0.26886	1.00002
-0.60	1.00038	3.09010	4.09049	31.2924	0.46892	1.00001
-0.40	1.00060	3.09002	4.09061	30.8315	0.66901	1.00001
-0.20	1.00094	3.08996	4.09089	30.3706	0.86916	1.00001
0.	1.00148	3.08992	4.09140	29.9095	1.06939	1.00001
0.20	1.00234	3.08992	4.09226	29.4481	1.26977	1.00001
0.40	1.00371	3.08995	4.09365	28.9863	1.47036	1.00000
0.60	1.00587	3.09003	4.09590	28.5237	1.67129	1.00000
0.80	1.00930	3.09018	4.09948	28.0599	1.87277	1.00000
1.00	1.01474	3.09044	4.10518	27.5942	2.07511	1.00000
1.20	1.02336	3.09086	4.11423	27.1255	2.27878	1.00000
1.40	1.03703	3.09155	4.12858	26.6520	2.48454	1.00000
1.60	1.05869	3.09265	4.15133	26.1709	2.69352	1.00000
1.80	1.09301	3.09440	4.18741	25.6778	2.90737	1.00000
2.00	1.14741	3.09717	4.24458	25.1657	3.12847	1.00000
2.20	1.23363	3.10158	4.33521	24.6233	3.35994	1.00000
2.40	1.37028	3.10857	4.47885	24.0331	3.60556	1.00000

TABLE H (Continued)

3300°K						
LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.03592	4.33086	5.36678	47.4378	-5.90256	1.03592
-6.80	1.02864	4.08165	5.11029	46.7132	-5.70562	1.02864
-6.60	1.02282	3.88235	4.90517	46.0416	-5.50809	1.02282
-6.40	1.01817	3.72318	4.74135	45.4125	-5.31007	1.01817
-6.20	1.01446	3.59621	4.61067	44.8176	-5.11165	1.01446
-6.00	1.01150	3.49501	4.50651	44.2499	-4.91292	1.01150
-5.80	1.00915	3.41441	4.42355	43.7040	-4.71393	1.00915
-5.60	1.00727	3.35024	4.35752	43.1756	-4.51474	1.00727
-5.40	1.00578	3.29919	4.30497	42.6610	-4.31538	1.00578
-5.20	1.00460	3.25858	4.26318	42.1575	-4.11590	1.00460
-5.00	1.00365	3.22629	4.22994	41.6628	-3.91630	1.00365
-4.80	1.00290	3.20062	4.20352	41.1751	-3.71663	1.00290
-4.60	1.00231	3.18022	4.18252	40.6930	-3.51689	1.00231
-4.40	1.00183	3.16400	4.16583	40.2153	-3.31709	1.00183
-4.20	1.00146	3.15111	4.15257	39.7412	-3.11725	1.00146
-4.00	1.00116	3.14087	4.14203	39.2698	-2.91738	1.00116
-3.80	1.00092	3.13274	4.13366	38.8007	-2.71749	1.00092
-3.60	1.00073	3.12627	4.12700	38.3333	-2.51757	1.00073
-3.40	1.00058	3.12114	4.12172	37.8674	-2.31763	1.00058
-3.20	1.00046	3.11706	4.11752	37.4025	-2.11769	1.00046
-3.00	1.00037	3.11387	4.11418	36.9386	-1.91773	1.00037
-2.80	1.00029	3.11124	4.11154	36.4754	-1.71776	1.00029
-2.60	1.00023	3.10920	4.10943	36.0127	-1.51778	1.00023
-2.40	1.00019	3.10757	4.10776	35.5504	-1.31780	1.00019
-2.20	1.00015	3.10628	4.10644	35.0885	-1.11782	1.00015
-2.00	1.00013	3.10526	4.10539	34.6269	-0.91783	1.00013
-1.80	1.00012	3.10444	4.10456	34.1656	-0.71784	1.00012
-1.60	1.00011	3.10380	4.10391	33.7043	-0.51784	1.00011
-1.40	1.00012	3.10328	4.10340	33.2433	-0.31784	1.00012
-1.20	1.00014	3.10288	4.10302	32.7823	-0.11783	1.00014
-1.00	1.00018	3.10256	4.10274	32.3214	0.08219	1.00018
-0.80	1.00026	3.10230	4.10257	31.8605	0.28223	1.00026
-0.60	1.00039	3.10211	4.10250	31.3996	0.48228	1.00039
-0.40	1.00060	3.10196	4.10256	30.9387	0.68238	1.00060
-0.20	1.00094	3.10185	4.10279	30.4778	0.88252	1.00094
0.	1.00148	3.10177	4.10326	30.0166	1.08276	1.00148
0.20	1.00234	3.10174	4.10408	29.5552	1.28313	1.00234
0.40	1.00370	3.10175	4.10546	29.0933	1.48372	1.00370
0.60	1.00586	3.10182	4.10769	28.6307	1.68465	1.00586
0.80	1.00929	3.10197	4.11126	28.1669	1.88613	1.00929
1.00	1.01472	3.10224	4.11696	27.7012	2.08846	1.01472
1.20	1.02333	3.10270	4.12602	27.2326	2.29213	1.02333
1.40	1.03697	3.10344	4.14041	26.7592	2.49788	1.03697
1.60	1.05859	3.10463	4.16372	26.2782	2.70684	1.05859
1.80	1.09286	3.10653	4.19938	25.7853	2.92068	1.09286
2.00	1.14717	3.10954	4.25671	25.2735	3.14174	1.14717
2.20	1.23325	3.11434	4.34759	24.7317	3.37316	1.23325
2.40	1.36967	3.12194	4.49162	24.1424	3.61873	1.36967

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TABLE H (Continued)
3400°K

LOG ρ/ρ_0	γ	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.05874	5.06381	6.12255	48.3096	-5.88013	1.05874
-6.80	1.04695	4.67226	5.71921	47.4333	-5.68499	1.04695
-6.60	1.03748	4.35770	5.39518	46.6389	-5.48894	1.03748
-6.40	1.02989	4.10559	5.13548	45.9108	-5.29213	1.02989
-6.20	1.02382	3.90390	4.92772	45.2363	-5.09470	1.02382
-6.00	1.01896	3.74280	4.76176	44.6049	-4.89676	1.01896
-5.80	1.01509	3.61425	4.62934	44.0080	-4.69842	1.01509
-5.60	1.01201	3.51178	4.52379	43.4388	-4.49974	1.01201
-5.40	1.00955	3.43016	4.43971	42.8917	-4.30079	1.00955
-5.20	1.00759	3.36517	4.37277	42.3623	-4.10164	1.00759
-5.00	1.00604	3.31346	4.31950	41.8469	-3.90231	1.00604
-4.80	1.00480	3.27233	4.27713	41.3428	-3.70284	1.00480
-4.60	1.00381	3.23962	4.24344	40.8476	-3.50327	1.00381
-4.40	1.00303	3.21362	4.21665	40.3595	-3.30361	1.00303
-4.20	1.00241	3.19295	4.19536	39.8771	-3.10388	1.00241
-4.00	1.00191	3.17652	4.17843	39.3991	-2.90409	1.00191
-3.80	1.00152	3.16347	4.16499	38.9248	-2.70426	1.00152
-3.60	1.00121	3.15309	4.15430	38.4533	-2.50440	1.00121
-3.40	1.00096	3.14485	4.14581	37.9840	-2.30450	1.00096
-3.20	1.00076	3.13830	4.13906	37.5165	-2.10459	1.00076
-3.00	1.00061	3.13310	4.13371	37.0505	-1.90466	1.00061
-2.80	1.00048	3.12897	4.12945	36.5856	-1.70471	1.00048
-2.60	1.00039	3.12568	4.12607	36.1216	-1.50475	1.00038
-2.40	1.00031	3.12307	4.12338	35.6583	-1.30479	1.00030
-2.20	1.00025	3.12100	4.12125	35.1956	-1.10481	1.00024
-2.00	1.00021	3.11936	4.11956	34.7333	-0.90483	1.00019
-1.80	1.00018	3.11805	4.11822	34.2714	-0.70485	1.00015
-1.60	1.00016	3.11701	4.11717	33.8098	-0.50485	1.00012
-1.40	1.00015	3.11619	4.11634	33.3484	-0.30485	1.00010
-1.20	1.00017	3.11553	4.11570	32.8871	-0.10485	1.00008
-1.00	1.00021	3.11502	4.11522	32.4260	0.09517	1.00006
-0.80	1.00028	3.11461	4.11489	31.9650	0.29520	1.00005
-0.60	1.00041	3.11429	4.11470	31.5040	0.49526	1.00004
-0.40	1.00062	3.11404	4.11466	31.0430	0.69535	1.00003
-0.20	1.00095	3.11385	4.11480	30.5819	0.89549	1.00002
0.	1.00149	3.11372	4.11521	30.1207	1.09572	1.00002
0.20	1.00234	3.11364	4.11599	29.6593	1.29610	1.00002
0.40	1.00370	3.11362	4.11732	29.1974	1.49668	1.00001
0.60	1.00586	3.11367	4.11953	28.7347	1.69762	1.00001
0.80	1.00928	3.11381	4.12308	28.2709	1.89909	1.00001
1.00	1.01470	3.11408	4.12878	27.8053	2.10142	1.00001
1.20	1.02329	3.11455	4.13734	27.3366	2.30508	1.00000
1.40	1.03691	3.11534	4.15225	26.8633	2.51082	1.00000
1.60	1.05849	3.11661	4.17510	26.3824	2.71977	1.00000
1.80	1.09270	3.11865	4.21135	25.8897	2.93358	1.00000
2.00	1.14692	3.12189	4.26881	25.3783	3.15461	1.00000
2.20	1.23285	3.12704	4.35989	24.8370	3.38599	1.00000
2.40	1.36903	3.13572	4.50426	24.2484	3.63149	1.00000

TABLE H (Continued)
3500°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.09267	6.11183	7.20451	49.5193	-5.85384	1.09267
-6.80	1.07435	5.52098	6.59533	48.4296	-5.66119	1.07435
-6.60	1.05953	5.04299	6.10752	47.4604	-5.46722	1.05953
-6.40	1.04759	4.65778	5.70536	46.5901	-5.27214	1.04759
-6.20	1.03799	4.34826	5.38625	45.8005	-5.07614	1.03799
-6.00	1.03030	4.10016	5.13046	45.0762	-4.87937	1.03030
-5.80	1.02414	3.90167	4.92581	44.4047	-4.68197	1.02414
-5.60	1.01922	3.74309	4.76232	43.7757	-4.48406	1.01922
-5.40	1.01530	3.61656	4.63186	43.1807	-4.28574	1.01530
-5.20	1.01217	3.51569	4.52787	42.6130	-4.08708	1.01217
-5.00	1.00968	3.43534	4.44502	42.0671	-3.88815	1.00968
-4.80	1.00770	3.37137	4.37907	41.5387	-3.68900	1.00770
-4.60	1.00612	3.32046	4.32658	41.0241	-3.48968	1.00612
-4.40	1.00486	3.27997	4.28483	40.5205	-3.29022	1.00486
-4.20	1.00387	3.24777	4.25163	40.0258	-3.09066	1.00387
-4.00	1.00307	3.22217	4.22524	39.5381	-2.89100	1.00307
-3.80	1.00244	3.20182	4.20426	39.0560	-2.69127	1.00244
-3.60	1.00194	3.18564	4.18758	38.5783	-2.49149	1.00194
-3.40	1.00154	3.17279	4.17433	38.1041	-2.29166	1.00154
-3.20	1.00122	3.16258	4.16380	37.6328	-2.09180	1.00122
-3.00	1.00097	3.15446	4.15543	37.1636	-1.89191	1.00097
-2.80	1.00077	3.14801	4.14879	36.6962	-1.69200	1.00077
-2.60	1.00062	3.14289	4.14351	36.2303	-1.49206	1.00061
-2.40	1.00049	3.13882	4.13931	35.7654	-1.29212	1.00049
-2.20	1.00040	3.13559	4.13599	35.3015	-1.09216	1.00039
-2.00	1.00032	3.13302	4.13334	34.8382	-0.89219	1.00031
-1.80	1.00027	3.13098	4.13125	34.3756	-0.69222	1.00024
-1.60	1.00023	3.12936	4.12959	33.9133	-0.49223	1.00019
-1.40	1.00021	3.12808	4.12829	33.4514	-0.29224	1.00015
-1.20	1.00021	3.12706	4.12727	32.9898	-0.09224	1.00012
-1.00	1.00024	3.12625	4.12649	32.5283	0.10777	1.00010
-0.80	1.00031	3.12561	4.12592	32.0671	0.30780	1.00008
-0.60	1.00043	3.12510	4.12553	31.6059	0.50785	1.00006
-0.40	1.00063	3.12471	4.12534	31.1447	0.70794	1.00005
-0.20	1.00096	3.12441	4.12537	30.6835	0.90809	1.00004
0.	1.00150	3.12419	4.12568	30.2222	1.10832	1.00003
0.20	1.00235	3.12404	4.12638	29.7607	1.30869	1.00002
0.40	1.00370	3.12396	4.12766	29.2987	1.50927	1.00002
0.60	1.00585	3.12397	4.12982	28.8361	1.71020	1.00002
0.80	1.00927	3.12409	4.13335	28.3722	1.91167	1.00001
1.00	1.01467	3.12435	4.13903	27.9066	2.11399	1.00001
1.20	1.02325	3.12484	4.14809	27.4380	2.31765	1.00001
1.40	1.03664	3.12566	4.16250	26.9647	2.52338	1.00001
1.60	1.05839	3.12700	4.18539	26.4839	2.73231	1.00000
1.80	1.09253	3.12916	4.22170	25.9914	2.94610	1.00000
2.00	1.14665	3.13261	4.27926	25.4803	3.16710	1.00000
2.20	1.23243	3.13810	4.37053	24.9394	3.39843	1.00000
2.40	1.36837	3.14681	4.51518	24.3517	3.64387	1.00000

TABLE H (Continued)

3600°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.14112	7.55684	8.69796	51.1555	-5.82277	1.14112
-6.80	1.11386	6.70241	7.81627	49.7820	-5.63327	1.11386
-6.60	1.09157	6.00383	7.09540	48.5758	-5.44205	1.09157
-6.40	1.07346	5.43612	6.50958	47.5097	-5.24931	1.07346
-6.20	1.05881	4.97695	6.03576	46.5597	-5.05528	1.05881
-6.00	1.04701	4.60698	5.65399	45.7049	-4.86015	1.04701
-5.80	1.03752	4.30975	5.34728	44.9278	-4.66410	1.03752
-5.60	1.02992	4.07153	5.10146	44.2136	-4.46729	1.02992
-5.40	1.02384	3.88096	4.90480	43.5502	-4.26986	1.02384
-5.20	1.01899	3.72872	4.74771	42.9276	-4.07193	1.01899
-5.00	1.01511	3.60725	4.62236	42.3378	-3.87358	1.01511
-4.80	1.01202	3.51042	4.52245	41.7742	-3.67491	1.01202
-4.60	1.00956	3.43329	4.44285	41.2316	-3.47596	1.00956
-4.40	1.00760	3.37189	4.37949	40.7058	-3.27681	1.00760
-4.20	1.00604	3.32303	4.32907	40.1933	-3.07748	1.00604
-4.00	1.00480	3.28416	4.28896	39.6914	-2.87802	1.00480
-3.80	1.00382	3.25325	4.25707	39.1980	-2.67844	1.00382
-3.60	1.00303	3.22868	4.23171	38.7113	-2.47878	1.00303
-3.40	1.00241	3.20915	4.21156	38.2300	-2.27905	1.00241
-3.20	1.00192	3.19362	4.19554	37.7530	-2.07927	1.00192
-3.00	1.00152	3.18129	4.18281	37.2794	-1.87944	1.00152
-2.80	1.00121	3.17149	4.17270	36.8084	-1.67957	1.00121
-2.60	1.00096	3.16370	4.16466	36.3396	-1.47968	1.00096
-2.40	1.00077	3.15751	4.15828	35.8725	-1.27976	1.00076
-2.20	1.00062	3.15259	4.15321	35.4066	-1.07983	1.00061
-2.00	1.00050	3.14869	4.14918	34.9421	-0.87988	1.00048
-1.80	1.00041	3.14558	4.14599	34.4783	-0.67992	1.00038
-1.60	1.00034	3.14312	4.14346	34.0151	-0.47995	1.00030
-1.40	1.00030	3.14116	4.14146	33.5525	-0.27997	1.00024
-1.20	1.00028	3.13961	4.13990	33.0903	-0.07997	1.00019
-1.00	1.00030	3.13838	4.13868	32.6284	0.12003	1.00015
-0.80	1.00035	3.13740	4.13776	32.1668	0.32006	1.00012
-0.60	1.00046	3.13663	4.13710	31.7053	0.52010	1.00010
-0.40	1.00066	3.13603	4.13669	31.2439	0.72019	1.00008
-0.20	1.00098	3.13556	4.13654	30.7826	0.92033	1.00006
0.	1.00151	3.13520	4.13672	30.3211	1.12056	1.00005
0.20	1.00236	3.13495	4.13731	29.8595	1.32093	1.00004
0.40	1.00371	3.13480	4.13850	29.3974	1.52151	1.00003
0.60	1.00585	3.13475	4.14060	28.9347	1.72244	1.00002
0.80	1.00925	3.13482	4.14408	28.4708	1.92390	1.00002
1.00	1.01465	3.13507	4.14972	28.0052	2.12622	1.00002
1.20	1.02321	3.13555	4.15876	27.5366	2.32987	1.00001
1.40	1.03678	3.13640	4.17317	27.0633	2.53559	1.00001
1.60	1.05828	3.13780	4.19608	26.5827	2.74450	1.00001
1.80	1.09236	3.14007	4.23243	26.0904	2.95827	1.00001
2.00	1.14638	3.14370	4.29009	25.5795	3.17923	1.00000
2.20	1.23200	3.14950	4.38150	25.0391	3.41051	1.00000
2.40	1.36769	3.15871	4.52640	24.4521	3.65589	1.00000

TABLE H (Continued)

3700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.20700	9.45420	10.66120	53.2851	-5.78649	1.20700
-6.80	1.16838	8.27675	9.44513	51.5610	-5.60061	1.16838
-6.60	1.13631	7.29875	8.43506	50.0525	-5.41270	1.13631
-6.40	1.10991	6.49406	7.60398	48.7308	-5.22291	1.10991
-6.20	1.08836	5.83686	6.92522	47.5676	-5.03143	1.08836
-6.00	1.07086	5.30323	6.37408	46.5370	-4.83847	1.07086
-5.80	1.05671	4.87192	5.92863	45.6159	-4.64424	1.05671
-5.60	1.04532	4.52458	5.56989	44.7846	-4.44895	1.04532
-5.40	1.03617	4.24565	5.28182	44.0265	-4.25277	1.03617
-5.20	1.02884	4.02217	5.05101	43.3276	-4.05585	1.02884
-5.00	1.02298	3.84343	4.86641	42.6765	-3.85833	1.02298
-4.80	1.01829	3.70068	4.71898	42.0637	-3.66032	1.01829
-4.60	1.01456	3.58681	4.60137	41.4818	-3.46192	1.01456
-4.40	1.01158	3.49604	4.50762	40.9245	-3.26320	1.01158
-4.20	1.00921	3.42375	4.43296	40.3869	-3.06422	1.00921
-4.00	1.00732	3.36620	4.37352	39.8651	-2.86503	1.00732
-3.80	1.00582	3.32040	4.32623	39.3558	-2.66568	1.00582
-3.60	1.00463	3.28398	4.28861	38.8564	-2.46619	1.00463
-3.40	1.00368	3.25502	4.25870	38.3651	-2.26660	1.00368
-3.20	1.00292	3.23199	4.23492	37.8800	-2.06693	1.00292
-3.00	1.00232	3.21369	4.21601	37.4000	-1.86719	1.00232
-2.80	1.00185	3.19915	4.20099	36.9240	-1.66740	1.00184
-2.60	1.00147	3.18759	4.18905	36.4511	-1.46756	1.00147
-2.40	1.00117	3.17840	4.17957	35.9808	-1.26769	1.00116
-2.20	1.00093	3.17110	4.17204	35.5125	-1.06779	1.00092
-2.00	1.00075	3.16531	4.16606	35.0458	-0.86787	1.00073
-1.80	1.00061	3.16070	4.16131	34.5804	-0.66794	1.00058
-1.60	1.00050	3.15704	4.15754	34.1160	-0.46798	1.00046
-1.40	1.00043	3.15414	4.15456	33.6523	-0.26801	1.00037
-1.20	1.00038	3.15183	4.15221	33.1893	-0.06803	1.00029
-1.00	1.00038	3.15000	4.15038	32.7268	0.13197	1.00023
-0.80	1.00042	3.14855	4.14896	32.2646	0.33198	1.00018
-0.60	1.00051	3.14740	4.14791	31.8028	0.53202	1.00015
-0.40	1.00070	3.14649	4.14719	31.3411	0.73210	1.00012
-0.20	1.00101	3.14579	4.14680	30.8795	0.93224	1.00009
0.	1.00153	3.14525	4.14678	30.4178	1.13247	1.00007
0.20	1.00237	3.14485	4.14722	29.9560	1.33283	1.00006
0.40	1.00372	3.14458	4.14829	29.4938	1.53341	1.00005
0.60	1.00585	3.14444	4.15029	29.0310	1.73434	1.00004
0.80	1.00925	3.14445	4.15370	28.5671	1.93580	1.00003
1.00	1.01463	3.14465	4.15929	28.1014	2.13811	1.00002
1.20	1.02317	3.14512	4.16829	27.6328	2.34175	1.00002
1.40	1.03671	3.14597	4.18269	27.1596	2.54746	1.00001
1.60	1.05817	3.14742	4.20559	26.6790	2.75636	1.00001
1.80	1.09219	3.14978	4.24197	26.1869	2.97010	1.00001
2.00	1.14610	3.15359	4.29970	25.6762	3.19103	1.00001
2.20	1.23155	3.15968	4.39123	25.1363	3.42225	1.00001
2.40	1.36698	3.16935	4.53634	24.5501	3.66756	1.00000

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TABLE H (Continued)
3800°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.29213	11.82283	13.11496	55.9358	-5.74531	1.29213
-6.80	1.24038	10.28696	11.52734	53.8171	-5.56306	1.24038
-6.60	1.19639	8.98147	10.17786	51.9508	-5.37874	1.19639
-6.40	1.15954	7.88769	9.04723	50.3148	-5.19233	1.15954
-6.20	1.12900	6.98161	8.11061	48.8820	-5.00392	1.12900
-6.00	1.10394	6.23763	7.34157	47.6240	-4.81367	1.10394
-5.80	1.08350	5.63101	6.71451	46.5139	-4.62179	1.08350
-5.60	1.06692	5.13909	6.20601	45.5270	-4.42848	1.06692
-5.40	1.05354	4.74190	5.79544	44.6416	-4.23397	1.05354
-5.20	1.04277	4.42229	5.46505	43.8394	-4.03843	1.04277
-5.00	1.03412	4.16579	5.19991	43.1048	-3.84204	1.03412
-4.80	1.02720	3.96038	4.98759	42.4248	-3.64496	1.02720
-4.60	1.02167	3.79617	4.81784	41.7889	-3.44731	1.02167
-4.40	1.01725	3.66506	4.68231	41.1883	-3.24919	1.01725
-4.20	1.01373	3.56049	4.57422	40.6161	-3.05070	1.01373
-4.00	1.01092	3.47716	4.48808	40.0666	-2.85190	1.01092
-3.80	1.00868	3.41080	4.41948	39.5352	-2.65286	1.00868
-3.60	1.00690	3.35798	4.36489	39.0183	-2.45363	1.00690
-3.40	1.00549	3.31596	4.32145	38.5130	-2.25424	1.00549
-3.20	1.00436	3.28251	4.28687	38.0168	-2.05473	1.00436
-3.00	1.00347	3.25596	4.25943	37.5279	-1.85511	1.00347
-2.80	1.00276	3.23483	4.23759	37.0448	-1.65542	1.00275
-2.60	1.00219	3.21804	4.22023	36.5664	-1.45567	1.00219
-2.40	1.00174	3.20470	4.20644	36.0916	-1.25586	1.00174
-2.20	1.00139	3.19409	4.19548	35.6198	-1.05601	1.00138
-2.00	1.00111	3.18566	4.18678	35.1502	-0.85613	1.00110
-1.80	1.00089	3.17897	4.17987	34.6826	-0.65623	1.00087
-1.60	1.00073	3.17365	4.17438	34.2164	-0.45630	1.00069
-1.40	1.00061	3.16943	4.17004	33.7513	-0.25635	1.00055
-1.20	1.00053	3.16607	4.16660	33.2872	-0.05639	1.00044
-1.00	1.00049	3.16341	4.16390	32.8238	0.14360	1.00035
-0.80	1.00051	3.16130	4.16180	32.3609	0.34360	1.00028
-0.60	1.00059	3.15963	4.16021	31.8985	0.54364	1.00022
-0.40	1.00075	3.15830	4.15906	31.4363	0.74371	1.00017
-0.20	1.00106	3.15727	4.15833	30.9744	0.94384	1.00014
0.	1.00157	3.15646	4.15803	30.5124	1.14406	1.00011
0.20	1.00240	3.15586	4.15825	30.0504	1.34442	1.00009
0.40	1.00373	3.15542	4.15916	29.5881	1.54500	1.00007
0.60	1.00586	3.15516	4.16102	29.1251	1.74592	1.00005
0.80	1.00924	3.15508	4.16432	28.6611	1.94738	1.00004
1.00	1.01462	3.15522	4.16983	28.1953	2.14968	1.00003
1.20	1.02314	3.15564	4.17878	27.7267	2.35332	1.00003
1.40	1.03665	3.15649	4.19314	27.2535	2.55901	1.00002
1.60	1.05807	3.15797	4.21603	26.7730	2.76790	1.00002
1.80	1.09201	3.16041	4.25242	26.2810	2.98161	1.00001
2.00	1.14582	3.16437	4.31019	25.7706	3.20250	1.00001
2.20	1.23110	3.17071	4.40182	25.2312	3.43368	1.00001
2.40	1.36627	3.18082	4.54709	24.6456	3.67892	1.00001

TABLE H (Continued)

3900°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.39504	14.58259	15.97763	59.0375	-5.70075	1.39504
-6.80	1.33018	12.70755	14.03773	56.5353	-5.52142	1.33018
-6.60	1.27320	11.06021	12.33341	54.2888	-5.34044	1.27320
-6.40	1.22421	9.64378	10.86799	52.2976	-5.15748	1.22421
-6.20	1.18278	8.44633	9.62912	50.5462	-4.97243	1.18278
-6.00	1.14823	7.44734	8.59557	49.0108	-4.78531	1.14823
-5.80	1.11970	6.62253	7.74223	47.6640	-4.59623	1.11970
-5.60	1.09633	5.94707	7.04340	46.4784	-4.40539	1.09633
-5.40	1.07732	5.39745	6.47477	45.4284	-4.21299	1.07732
-5.20	1.06193	4.95246	6.01439	44.4910	-4.01924	1.06193
-5.00	1.04952	4.59363	5.64315	43.6461	-3.82435	1.04952
-4.80	1.03954	4.30518	5.34472	42.8767	-3.62850	1.03954
-4.60	1.03154	4.07387	5.10541	42.1686	-3.43185	1.03154
-4.40	1.02513	3.88876	4.91389	41.5100	-3.23456	1.02513
-4.20	1.02002	3.74084	4.76085	40.8912	-3.03673	1.02002
-4.00	1.01593	3.62279	4.63872	40.3044	-2.83847	1.01593
-3.80	1.01268	3.52866	4.54134	39.7432	-2.63986	1.01268
-3.60	1.01008	3.45367	4.46376	39.2024	-2.44098	1.01008
-3.40	1.00802	3.39397	4.40199	38.6781	-2.24187	1.00802
-3.20	1.00637	3.34645	4.35283	38.1667	-2.04258	1.00637
-3.00	1.00507	3.30865	4.31372	37.6658	-1.84314	1.00507
-2.80	1.00403	3.27859	4.28262	37.1731	-1.64359	1.00403
-2.60	1.00320	3.25469	4.25790	36.6871	-1.44395	1.00320
-2.40	1.00255	3.23570	4.23824	36.2062	-1.24423	1.00254
-2.20	1.00203	3.22060	4.22262	35.7296	-1.04446	1.00202
-2.00	1.00162	3.20860	4.21022	35.2562	-0.84463	1.00160
-1.80	1.00130	3.19906	4.20036	34.7855	-0.64477	1.00127
-1.60	1.00105	3.19149	4.19254	34.3168	-0.44488	1.00101
-1.40	1.00086	3.18547	4.18633	33.8499	-0.24496	1.00080
-1.20	1.00073	3.18069	4.18142	33.3842	-0.04502	1.00064
-1.00	1.00065	3.17689	4.17755	32.9196	0.15495	1.00051
-0.80	1.00063	3.17388	4.17451	32.4558	0.35494	1.00040
-0.60	1.00069	3.17149	4.17218	31.9926	0.55496	1.00032
-0.40	1.00083	3.16960	4.17044	31.5298	0.75503	1.00025
-0.20	1.00112	3.16812	4.16924	31.0674	0.95515	1.00020
0.	1.00162	3.16696	4.16857	30.6051	1.15537	1.00016
0.20	1.00243	3.16607	4.16850	30.1427	1.35572	1.00013
0.40	1.00376	3.16541	4.16917	29.6802	1.55629	1.00010
0.60	1.00587	3.16498	4.17085	29.2170	1.75721	1.00008
0.80	1.00925	3.16476	4.17401	28.7529	1.95866	1.00006
1.00	1.01460	3.16480	4.17941	28.2870	2.16096	1.00005
1.20	1.02310	3.16517	4.18827	27.8183	2.36458	1.00004
1.40	1.03659	3.16598	4.20257	27.3451	2.57027	1.00003
1.60	1.05796	3.16747	4.22342	26.8647	2.77913	1.00002
1.80	1.09184	3.16997	4.26181	26.3728	2.99282	1.00002
2.00	1.14554	3.17406	4.31960	25.8626	3.21367	1.00001
2.20	1.23065	3.18064	4.41129	25.3236	3.44480	1.00001
2.40	1.36554	3.19115	4.55669	24.7387	3.68997	1.00001

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TABLE H (Continued)

4000°K						
LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.51010	17.54522	19.05532	62.4068	-5.65533	1.51010
-6.80	1.43509	15.43147	16.86657	59.6151	-5.47746	1.43509
-6.60	1.36610	13.48719	14.85329	57.0261	-5.29886	1.36610
-6.40	1.30458	11.75366	13.05824	54.6779	-5.11887	1.30458
-6.20	1.25107	10.24573	11.49680	52.5819	-4.93706	1.25107
-6.00	1.20542	8.95926	10.16469	50.7301	-4.75320	1.20542
-5.80	1.16706	7.87833	9.045=9	49.1031	-4.56725	1.16706
-5.60	1.13522	6.98086	8.11600	47.6758	-4.37926	1.13522
-5.40	1.10902	6.24267	7.35169	46.4210	-4.18940	1.10902
-5.20	1.08763	5.63992	6.72755	45.3126	-3.99786	1.08763
-5.00	1.07027	5.15060	6.22087	44.3266	-3.80485	1.07027
-4.80	1.05623	4.75517	5.81140	43.4416	-3.61058	1.05623
-4.60	1.04493	4.43676	5.48169	42.6395	-3.41525	1.04493
-4.40	1.03586	4.18109	5.21695	41.9048	-3.21904	1.03586
-4.20	1.02859	3.97626	5.00485	41.2246	-3.02210	1.02859
-4.00	1.02278	3.81245	4.83523	40.5885	-2.82456	1.02278
-3.80	1.01814	3.68163	4.69977	39.9878	-2.62653	1.01814
-3.60	1.01444	3.57727	4.59170	39.4155	-2.42812	1.01444
-3.40	1.01148	3.49409	4.50557	38.8658	-2.22938	1.01148
-3.20	1.00913	3.42784	4.43698	38.3343	-2.03039	1.00913
-3.00	1.00726	3.37511	4.38237	37.8173	-1.83120	1.00726
-2.80	1.00577	3.33315	4.33892	37.3119	-1.63184	1.00577
-2.60	1.00459	3.29977	4.30436	36.8156	-1.43235	1.00459
-2.40	1.00365	3.27323	4.27688	36.3267	-1.23276	1.00365
-2.20	1.00291	3.25213	4.25504	35.8435	-1.03308	1.00290
-2.00	1.00232	3.23537	4.23768	35.3650	-0.83334	1.00230
-1.80	1.00185	3.22204	4.22389	34.8902	-0.63354	1.00183
-1.60	1.00149	3.21145	4.21294	34.4184	-0.43369	1.00145
-1.40	1.00121	3.20303	4.20424	33.9488	-0.23381	1.00115
-1.20	1.00101	3.19635	4.19736	33.4811	-0.03390	1.00092
-1.00	1.00087	3.19104	4.19191	33.0149	0.16604	1.00073
-0.80	1.00081	3.18682	4.18763	32.5497	0.36601	1.00058
-0.60	1.00082	3.18348	4.18431	32.0855	0.56602	1.00046
-0.40	1.00094	3.18084	4.18178	31.6219	0.76607	1.00037
-0.20	1.00121	3.17875	4.17995	31.1588	0.96618	1.00029
0.	1.00168	3.17711	4.17879	30.6960	1.16639	1.00023
0.20	1.00248	3.17584	4.17833	30.2333	1.36674	1.00018
0.40	1.00379	3.17489	4.17868	29.7704	1.56730	1.00015
0.60	1.00590	3.17422	4.18011	29.3070	1.76821	1.00012
0.80	1.00926	3.17382	4.18308	28.8427	1.96966	1.00009
1.00	1.01460	3.17372	4.18832	28.3767	2.17195	1.00007
1.20	1.02308	3.17399	4.19707	27.9079	2.37557	1.00006
1.40	1.03653	3.17475	4.21128	27.4347	2.58124	1.00005
1.60	1.05785	3.17622	4.23407	26.9543	2.79008	1.00004
1.80	1.09166	3.17876	4.27042	26.4625	3.00375	1.00003
2.00	1.14525	3.18296	4.32821	25.9525	3.22456	1.00002
2.20	1.23019	3.18975	4.41994	25.4139	3.45563	1.00002
2.40	1.36480	3.20063	4.56543	24.8296	3.70073	1.00001

TABLE H (Continued)

4100°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.62736	20.42344	22.05080	65.7542	-5.61213	1.62736
-6.80	1.54851	18.25591	19.80442	62.8554	-5.43370	1.54851
-6.60	1.47142	16.13683	17.60825	60.0410	-5.25588	1.47142
-6.40	1.39921	14.15207	15.55128	57.3955	-5.07773	1.39921
-6.20	1.33389	12.35668	13.69057	54.9711	-4.89850	1.33389
-6.00	1.27642	10.77700	12.05342	52.7907	-4.71762	1.27642
-5.80	1.22695	9.41717	10.64412	50.8547	-4.53479	1.22695
-5.60	1.18509	8.26653	9.45162	49.1490	-4.34987	1.18509
-5.40	1.15014	7.30591	8.45605	47.6509	-4.16287	1.15014
-5.20	1.12127	6.51234	7.63361	46.3345	-3.97391	1.12127
-5.00	1.09761	5.86217	6.95979	45.1737	-3.78317	1.09761
-4.80	1.07836	5.33295	6.41131	44.1435	-3.59085	1.07836
-4.60	1.06277	4.90437	5.96714	43.2221	-3.39718	1.06277
-4.40	1.05019	4.55869	5.60888	42.3900	-3.20235	1.05019
-4.20	1.04008	4.28076	5.32084	41.6308	-3.00655	1.04008
-4.00	1.03197	4.05787	5.08984	40.9309	-2.80995	1.03197
-3.80	1.02548	3.87947	4.90495	40.2788	-2.61269	1.02548
-3.60	1.02029	3.73690	4.75719	39.6652	-2.41489	1.02029
-3.40	1.01615	3.62311	4.63927	39.0826	-2.21666	1.01615
-3.20	1.01285	3.53238	4.54524	38.5247	-2.01807	1.01285
-3.00	1.01022	3.46010	4.47032	37.9866	-1.81920	1.01022
-2.80	1.00813	3.40254	4.41067	37.4643	-1.62010	1.00813
-2.60	1.00647	3.35673	4.36320	36.9546	-1.42082	1.00646
-2.40	1.00514	3.32029	4.32544	36.4550	-1.22139	1.00514
-2.20	1.00409	3.29132	4.29541	35.9634	-1.02184	1.00408
-2.00	1.00326	3.26827	4.27153	35.4782	-0.82220	1.00324
-1.80	1.00260	3.24996	4.25256	34.9980	-0.62249	1.00258
-1.60	1.00208	3.23540	4.23749	34.5218	-0.42271	1.00205
-1.40	1.00168	3.22383	4.22552	34.0489	-0.22289	1.00163
-1.20	1.00138	3.21464	4.21603	33.5785	-0.02302	1.00129
-1.00	1.00117	3.20734	4.20851	33.1101	0.17689	1.00103
-0.80	1.00105	3.20155	4.20259	32.6432	0.37684	1.00082
-0.60	1.00101	3.19695	4.19796	32.1777	0.57682	1.00065
-0.40	1.00109	3.19330	4.19439	31.7130	0.77686	1.00051
-0.20	1.00132	3.19042	4.19174	31.2491	0.97696	1.00041
0.	1.00177	3.18815	4.18992	30.7856	1.17715	1.00032
0.20	1.00256	3.18638	4.18894	30.3223	1.37749	1.00026
0.40	1.00385	3.18503	4.18888	29.8590	1.57805	1.00020
0.60	1.00593	3.18405	4.18999	29.3953	1.77895	1.00016
0.80	1.00927	3.18341	4.19269	28.9307	1.98039	1.00013
1.00	1.01460	3.18313	4.19773	28.4645	2.18268	1.00010
1.20	1.02305	3.18326	4.20631	27.9956	2.38628	1.00008
1.40	1.03647	3.18393	4.22040	27.5223	2.59194	1.00006
1.60	1.05775	3.18536	4.24311	27.0419	2.80077	1.00005
1.80	1.09149	3.18791	4.27940	26.5501	3.01440	1.00004
2.00	1.14496	3.19220	4.33716	26.0404	3.23517	1.00003
2.20	1.22972	3.19917	4.42890	25.5021	3.46619	1.00002
2.40	1.36406	3.21038	4.57445	24.9184	3.71122	1.00002

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TABLE H (Continued)
4200°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.73449	22.89218	24.62668	68.7457	-5.57398	1.73449
-6.80	1.66009	20.89577	22.55586	65.9675	-5.39302	1.66009
-6.60	1.58165	18.79142	20.37308	63.1166	-5.21404	1.58165
-6.40	1.50338	16.69140	18.19478	60.3063	-5.03608	1.50338
-6.20	1.42881	14.69081	16.11961	57.6308	-4.85818	1.42881
-6.00	1.36042	12.85616	14.21658	55.1541	-4.67948	1.36042
-5.80	1.29959	11.22430	12.52389	52.9101	-4.49934	1.29959
-5.60	1.24678	9.80750	11.05428	50.9073	-4.31736	1.24678
-5.40	1.20179	8.60059	9.80238	49.1369	-4.13332	1.20179
-5.20	1.16404	7.58768	8.75171	47.5794	-3.94718	1.16404
-5.00	1.13272	6.74746	7.88017	46.2106	-3.75903	1.13272
-4.80	1.10697	6.05684	7.16381	45.0045	-3.56901	1.10697
-4.60	1.08596	5.49326	6.57923	43.9361	-3.37734	1.08596
-4.40	1.06892	5.03594	6.10486	42.9828	-3.18421	1.06892
-4.20	1.05515	4.66650	5.72165	42.1244	-2.98984	1.05515
-4.00	1.04406	4.36910	5.41316	41.3437	-2.79443	1.04406
-3.80	1.03516	4.13036	5.16552	40.6263	-2.59814	1.03516
-3.60	1.02803	3.93912	4.96715	39.9600	-2.40114	1.02803
-3.40	1.02233	3.78620	4.80853	39.3350	-2.20356	1.02233
-3.20	1.01778	3.66408	4.68187	38.7432	-2.00550	1.01778
-3.00	1.01415	3.56668	4.58083	38.1780	-1.80705	1.01415
-2.80	1.01126	3.48905	4.50031	37.6340	-1.60829	1.01126
-2.60	1.00895	3.42723	4.43619	37.1070	-1.40928	1.00895
-2.40	1.00712	3.37802	4.38514	36.5936	-1.21007	1.00712
-2.20	1.00567	3.33886	4.34453	36.0910	-1.01070	1.00566
-2.00	1.00451	3.30772	4.31223	35.5970	-0.81120	1.00450
-1.80	1.00360	3.28296	4.28655	35.1099	-0.61159	1.00357
-1.60	1.00288	3.26327	4.26615	34.6282	-0.41190	1.00284
-1.40	1.00231	3.24763	4.24994	34.1508	-0.21215	1.00226
-1.20	1.00188	3.23519	4.23708	33.6769	-0.01233	1.00179
-1.00	1.00157	3.22531	4.22688	33.2057	0.18753	1.00142
-0.80	1.00136	3.21747	4.21883	32.7367	0.38744	1.00113
-0.60	1.00126	3.21124	4.21250	32.2694	0.58740	1.00090
-0.40	1.00129	3.20630	4.20759	31.8033	0.78741	1.00071
-0.20	1.00148	3.20239	4.20387	31.3383	0.98749	1.00057
0.	1.00190	3.19930	4.20120	30.8739	1.18767	1.00045
0.20	1.00265	3.19689	4.19954	30.4099	1.38800	1.00036
0.40	1.00392	3.19503	4.19895	29.9461	1.58855	1.00028
0.60	1.00598	3.19364	4.19963	29.4819	1.78944	1.00023
0.80	1.00931	3.19269	4.20199	29.0170	1.99087	1.00018
1.00	1.01461	3.19216	4.20677	28.5505	2.19315	1.00014
1.20	1.02304	3.19211	4.21514	28.0814	2.39674	1.00011
1.40	1.03642	3.19264	4.22906	27.6080	2.60238	1.00009
1.60	1.05765	3.19400	4.25165	27.1276	2.81119	1.00007
1.80	1.09131	3.19653	4.28785	26.6359	3.02480	1.00005
2.00	1.14467	3.20087	4.34555	26.1263	3.24553	1.00004
2.20	1.22926	3.20801	4.43726	25.5883	3.47649	1.00003
2.40	1.36332	3.21952	4.58283	25.0052	3.72145	1.00002

TABLE H (Continued)

4300°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.82203	24.73246	26.55449	71.1476	-5.54238	1.82203
-6.80	1.75927	23.08781	24.84708	68.6779	-5.35760	1.75927
-6.60	1.68730	21.20199	22.88929	65.9982	-5.17574	1.68730
-6.40	1.60980	19.17157	20.78137	63.2085	-4.99616	1.60980
-6.20	1.53101	17.10733	18.63834	60.4211	-4.81795	1.53101
-6.00	1.45478	15.10999	16.56476	57.7364	-4.64014	1.45478
-5.80	1.38397	13.25501	14.63899	55.2280	-4.46180	1.38397
-5.60	1.32036	11.58836	12.90872	52.9390	-4.28224	1.32036
-5.40	1.26468	10.12979	11.39447	50.8855	-4.10095	1.26468
-5.20	1.21696	8.87950	10.09645	49.0641	-3.91766	1.21696
-5.00	1.17671	7.82503	9.00174	47.4587	-3.73226	1.17671
-4.80	1.14319	6.94698	8.09017	46.0467	-3.54481	1.14319
-4.60	1.11556	6.22309	7.33865	44.8029	-3.35544	1.11556
-4.40	1.09296	5.63096	6.72392	43.7025	-3.16433	1.09296
-4.20	1.07458	5.14958	6.22416	42.7221	-2.97169	1.07458
-4.00	1.05972	4.76013	5.81985	41.8414	-2.77774	1.05972
-3.80	1.04774	4.44626	5.49400	41.0423	-2.58268	1.04774
-3.60	1.03811	4.19406	5.23217	40.3099	-2.38669	1.03811
-3.40	1.03039	3.99190	5.02229	39.6315	-2.18993	1.03039
-3.20	1.02422	3.83015	4.85437	38.9968	-1.99254	1.02422
-3.00	1.01929	3.70093	4.72022	38.3970	-1.79464	1.01929
-2.80	1.01535	3.59782	4.61318	37.8255	-1.59632	1.01535
-2.60	1.01222	3.51563	4.52784	37.2764	-1.39766	1.01222
-2.40	1.00972	3.45015	4.45987	36.7454	-1.19873	1.00971
-2.20	1.00773	3.39802	4.40575	36.2288	-0.99959	1.00772
-2.00	1.00615	3.35654	4.36269	35.7236	-0.80027	1.00614
-1.80	1.00490	3.32354	4.32844	35.2275	-0.60081	1.00488
-1.60	1.00391	3.29730	4.30121	34.7388	-0.40124	1.00388
-1.40	1.00314	3.27644	4.27957	34.2558	-0.20157	1.00308
-1.20	1.00254	3.25985	4.26239	33.7774	-0.00183	1.00245
-1.00	1.00209	3.24668	4.24877	33.3026	0.19797	1.00195
-0.80	1.00177	3.23621	4.23798	32.8307	0.39784	1.00155
-0.60	1.00159	3.22790	4.22949	32.3611	0.59776	1.00123
-0.40	1.00155	3.22130	4.22285	31.8933	0.79774	1.00098
-0.20	1.00169	3.21607	4.21776	31.4268	0.99780	1.00077
0.	1.00206	3.21195	4.21401	30.9613	1.19796	1.00062
0.20	1.00278	3.20870	4.21148	30.4965	1.39827	1.00049
0.40	1.00401	3.20618	4.21020	30.0319	1.59881	1.00039
0.60	1.00606	3.20428	4.21033	29.5672	1.79969	1.00031
0.80	1.00935	3.20291	4.21226	29.1018	2.00111	1.00024
1.00	1.01463	3.20206	4.21669	28.6350	2.20338	1.00019
1.20	1.02303	3.20177	4.22480	28.1657	2.40696	1.00015
1.40	1.03638	3.20213	4.23850	27.6921	2.61259	1.00012
1.60	1.05756	3.20336	4.26092	27.2116	2.82137	1.00009
1.80	1.09114	3.20585	4.29699	26.7199	3.03495	1.00007
2.00	1.14439	3.21021	4.35460	26.2104	3.25564	1.00006
2.20	1.22879	3.21747	4.44626	25.6727	3.48655	1.00004
2.40	1.36257	3.22925	4.59182	25.0902	3.73143	1.00003

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TABLE H¹ (Continued)

4400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.88608	25.88843	27.77451	72.8866	-5.51739	1.88608
-6.80	1.83826	24.66348	26.50174	70.8037	-5.32854	1.83826
-6.60	1.77868	23.13778	24.91646	68.4447	-5.14285	1.77868
-6.40	1.70906	21.35512	23.06418	65.8586	-4.96019	1.70906
-6.20	1.63274	19.40109	21.03383	63.1350	-4.78003	1.63274
-6.00	1.55389	17.38255	18.93645	60.3826	-4.60153	1.55389
-5.80	1.47656	15.40281	16.87937	57.7052	-4.42370	1.47656
-5.60	1.40394	13.54367	14.94761	55.1831	-4.24560	1.40394
-5.40	1.33811	11.85835	13.19646	52.8667	-4.06646	1.33811
-5.20	1.28009	10.37303	11.65312	50.7788	-3.88571	1.28009
-5.00	1.23008	9.09275	10.32282	48.9208	-3.70301	1.23008
-4.80	1.18772	8.00829	9.19601	47.2799	-3.51823	1.18772
-4.60	1.15232	7.10219	8.25451	45.8353	-3.33137	1.15232
-4.40	1.12306	6.35319	7.47625	44.5626	-3.14254	1.12306
-4.20	1.09908	5.73923	6.83831	43.4371	-2.95192	1.09908
-4.00	1.07955	5.23929	6.31884	42.4357	-2.75970	1.07955
-3.80	1.06373	4.83430	5.89802	41.5373	-2.56612	1.06373
-3.60	1.05097	4.50756	5.55853	40.7237	-2.37136	1.05097
-3.40	1.04070	4.24481	5.28552	39.9795	-2.17562	1.04070
-3.20	1.03247	4.03406	5.06653	39.2914	-1.97907	1.03247
-3.00	1.02588	3.86536	4.89124	38.6488	-1.78185	1.02588
-2.80	1.02061	3.73053	4.75115	38.0428	-1.58409	1.02061
-2.60	1.01641	3.62291	4.63932	37.4662	-1.38588	1.01641
-2.40	1.01306	3.53710	4.55016	36.9131	-1.18731	1.01306
-2.20	1.01039	3.46872	4.47911	36.3788	-0.98846	1.01038
-2.00	1.00827	3.41428	4.42255	35.8596	-0.78937	1.00826
-1.80	1.00659	3.37095	4.37753	35.3523	-0.59010	1.00656
-1.60	1.00525	3.33648	4.34173	34.8546	-0.39067	1.00522
-1.40	1.00420	3.30906	4.31327	34.3645	-0.19113	1.00415
-1.20	1.00339	3.28727	4.29065	33.8805	0.00852	1.00330
-1.00	1.00276	3.26994	4.27271	33.4012	0.20825	1.00262
-0.80	1.00231	3.25618	4.25849	32.9258	0.40805	1.00208
-0.60	1.00202	3.24524	4.24726	32.4533	0.60793	1.00165
-0.40	1.00189	3.23656	4.23845	31.9833	0.80787	1.00131
-0.20	1.00195	3.22968	4.23164	31.5150	1.00790	1.00104
0.	1.00227	3.22424	4.22651	31.0481	1.20804	1.00083
0.20	1.00294	3.21995	4.22289	30.5821	1.40833	1.00066
0.40	1.00414	3.21660	4.22074	30.1166	1.60885	1.00052
0.60	1.00615	3.21404	4.22019	29.6512	1.80972	1.00041
0.80	1.00942	3.21215	4.22157	29.1853	2.01112	1.00033
1.00	1.01467	3.21090	4.22557	28.7180	2.21338	1.00026
1.20	1.02304	3.21029	4.23332	28.2484	2.41694	1.00021
1.40	1.03634	3.21041	4.24676	27.7746	2.62256	1.00016
1.60	1.05747	3.21149	4.26896	27.2939	2.83132	1.00013
1.80	1.09098	3.21388	4.30486	26.8022	3.04487	1.00010
2.00	1.14411	3.21824	4.36234	26.2928	3.26552	1.00008
2.20	1.22833	3.22558	4.45391	25.7554	3.49637	1.00006
2.40	1.36182	3.23759	4.59941	25.1733	3.74117	1.00004

TABLE H (Continued)

4500°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.92933	26.47339	28.40273	74.0609	-5.49778	1.92933
-6.80	1.89571	25.63071	27.52642	72.3372	-5.30542	1.89571
-6.60	1.85070	24.50355	26.35425	70.3469	-5.11585	1.85070
-6.40	1.79381	23.07920	24.87301	68.0829	-4.92941	1.79381
-6.20	1.72631	21.38937	23.11568	65.5822	-4.74607	1.72631
-6.00	1.65121	19.50944	21.16065	62.9243	-4.56539	1.65121
-5.80	1.57257	17.54120	19.11378	60.2137	-4.38658	1.57257
-5.60	1.49456	15.58844	17.08299	57.5548	-4.20868	1.49456
-5.40	1.42059	13.73710	15.15769	55.0325	-4.03072	1.42059
-5.20	1.35302	12.04595	13.39897	52.7029	-3.85188	1.35302
-5.00	1.29310	10.54640	11.83951	50.5944	-3.67155	1.29310
-4.80	1.24121	9.24766	10.48887	48.7124	-3.48934	1.24121
-4.60	1.19709	8.14343	9.34051	47.0470	-3.30506	1.19709
-4.40	1.16012	7.21809	8.37820	45.5792	-3.11869	1.16012
-4.20	1.12948	6.45141	7.58090	44.2856	-2.93031	1.12948
-4.00	1.10433	5.82184	6.92616	43.1418	-2.74009	1.10433
-3.80	1.08381	5.30844	6.39225	42.1247	-2.54823	1.08381
-3.60	1.06718	4.89208	5.95926	41.2132	-2.35495	1.06718
-3.40	1.05374	4.55589	5.60963	40.3888	-2.16045	1.05374
-3.20	1.04293	4.28534	5.32827	39.6356	-1.96493	1.04293
-3.00	1.03426	4.06822	5.10247	38.9402	-1.76856	1.03426
-2.80	1.02731	3.89433	4.92165	38.2917	-1.57149	1.02731
-2.60	1.02176	3.75532	4.77708	37.6809	-1.37384	1.02176
-2.40	1.01732	3.64433	4.66165	37.1004	-1.17573	1.01732
-2.20	1.01379	3.55580	4.56959	36.5443	-0.97724	1.01378
-2.00	1.01098	3.48526	4.49623	36.0075	-0.77845	1.01096
-1.80	1.00874	3.42908	4.43782	35.4863	-0.57941	1.00872
-1.60	1.00697	3.38436	4.39133	34.9775	-0.38017	1.00693
-1.40	1.00557	3.34879	4.35435	34.4785	-0.18078	1.00551
-1.20	1.00447	3.32049	4.32496	33.9874	0.01875	1.00438
-1.00	1.00362	3.29800	4.30162	33.5025	0.21838	1.00348
-0.80	1.00299	3.28012	4.28311	33.0226	0.41811	1.00276
-0.60	1.00256	3.26591	4.26847	32.5466	0.61792	1.00220
-0.40	1.00232	3.25463	4.25695	32.0737	0.81782	1.00174
-0.20	1.00229	3.24568	4.24797	31.6032	1.01781	1.00139
0.	1.00254	3.23859	4.24113	31.1345	1.21791	1.00110
0.20	1.00315	3.23300	4.23615	30.6671	1.41818	1.00087
0.40	1.00431	3.22861	4.23292	30.2005	1.61868	1.00069
0.60	1.00628	3.22523	4.23150	29.7342	1.81953	1.00055
0.80	1.00951	3.22269	4.23220	29.2676	2.02092	1.00044
1.00	1.01472	3.22093	4.23565	28.7998	2.22316	1.00035
1.20	1.02306	3.21992	4.24298	28.3297	2.42671	1.00027
1.40	1.03632	3.21974	4.25607	27.8556	2.63231	1.00022
1.60	1.05739	3.22059	4.27799	27.3747	2.84105	1.00017
1.80	1.09082	3.22285	4.31368	26.8829	3.05457	1.00013
2.00	1.14383	3.22715	4.37099	26.3736	3.27518	1.00010
2.20	1.22787	3.23455	4.46242	25.8364	3.50597	1.00008
2.40	1.36108	3.24675	4.60783	25.2548	3.75070	1.00006

TABLE H (Continued)
4600°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.95685	26.64912	28.60597	74.8212	-5.48208	1.95685
-6.80	1.93439	26.09753	28.03192	73.3733	-5.28710	1.93439
-6.60	1.90264	25.31913	27.22177	71.7110	-5.09429	1.90264
-6.40	1.85976	24.26849	26.12825	69.7936	-4.90418	1.85976
-6.20	1.80498	22.92650	24.73147	67.6073	-4.71717	1.80498
-6.00	1.73921	21.31584	23.05505	65.1802	-4.53329	1.73921
-5.80	1.66519	19.50339	21.16858	62.5836	-4.35218	1.66519
-5.60	1.58687	17.58576	19.17263	59.9171	-4.17310	1.58687
-5.40	1.50846	15.66579	17.17425	57.2844	-3.99511	1.50846
-5.20	1.43355	13.83172	15.26526	54.7731	-3.81723	1.43355
-5.00	1.36469	12.14604	13.51073	52.4434	-3.63861	1.36469
-4.80	1.30334	10.64404	11.94738	50.3274	-3.45858	1.30334
-4.60	1.25000	9.33816	10.58817	48.4339	-3.27673	1.25000
-4.40	1.20452	8.22452	9.42904	46.7554	-3.09283	1.20452
-4.20	1.16631	7.28909	8.45539	45.2743	-2.90683	1.16631
-4.00	1.13459	6.51262	7.64721	43.9682	-2.71880	1.13459
-3.80	1.10851	5.87406	6.98257	42.8134	-2.52890	1.10851
-3.60	1.08721	5.35276	6.43997	41.7867	-2.33733	1.08721
-3.40	1.06993	4.92961	5.99953	40.8670	-2.14429	1.06993
-3.20	1.05596	4.58768	5.64364	40.0357	-1.94999	1.05596
-3.00	1.04472	4.31237	5.35709	39.2767	-1.75464	1.04472
-2.80	1.03569	4.09132	5.12701	38.5767	-1.55841	1.03569
-2.60	1.02846	3.91424	4.94270	37.9244	-1.36146	1.02846
-2.40	1.02267	3.77263	4.79530	37.3106	-1.16391	1.02267
-2.20	1.01806	3.65953	4.67759	36.7276	-0.96587	1.01806
-2.00	1.01438	3.56932	4.58369	36.1695	-0.76744	1.01436
-1.80	1.01145	3.49742	4.50886	35.6311	-0.56870	1.01143
-1.60	1.00912	3.44015	4.44927	35.1086	-0.36970	1.00909
-1.40	1.00728	3.39457	4.40185	34.5988	-0.17049	1.00722
-1.20	1.00583	3.35830	4.36413	34.0990	0.02888	1.00574
-1.00	1.00471	3.32945	4.33416	33.6072	0.22840	1.00456
-0.80	1.00386	3.30652	4.31037	33.1218	0.42803	1.00363
-0.60	1.00324	3.28829	4.29153	32.6414	0.62776	1.00288
-0.40	1.00286	3.27381	4.27667	32.1650	0.82760	1.00229
-0.20	1.00273	3.26232	4.26504	31.6917	1.02754	1.00182
0.	1.00288	3.25321	4.25609	31.2208	1.22761	1.00144
0.20	1.00342	3.24601	4.24943	30.7517	1.42784	1.00115
0.40	1.00452	3.24035	4.24486	30.2837	1.62831	1.00091
0.60	1.00644	3.23595	4.24239	29.8163	1.82914	1.00072
0.80	1.00963	3.23261	4.24224	29.3488	2.03052	1.00057
1.00	1.01480	3.23021	4.24502	28.8804	2.23274	1.00045
1.20	1.02310	3.22871	4.25181	28.4098	2.43627	1.00036
1.40	1.03632	3.22815	4.26447	27.9352	2.64185	1.00028
1.60	1.05733	3.22872	4.28605	27.4541	2.85057	1.00022
1.80	1.09068	3.23079	4.32146	26.9622	3.06405	1.00017
2.00	1.14357	3.23499	4.37856	26.4528	3.28462	1.00013
2.20	1.22742	3.24240	4.46982	25.9158	3.51535	1.00010
2.40	1.36034	3.25474	4.61508	25.3346	3.76000	1.00007

TABLE H (Continued)
4700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.97394	26.56937	28.54331	75.3140	-5.46897	1.97394
-6.80	1.95930	26.21651	28.17581	74.0553	-5.27220	1.95930
-6.60	1.93787	25.70107	27.63894	72.6422	-5.07698	1.93787
-6.40	1.90743	24.97052	26.87795	71.0258	-4.88385	1.90743
-6.20	1.86607	23.97837	25.84444	69.1643	-4.69337	1.86607
-6.00	1.81282	22.70151	24.51433	67.0399	-4.50595	1.81282
-5.80	1.74835	21.15632	22.90468	64.6744	-4.32167	1.74835
-5.60	1.67520	19.40307	21.07826	62.1325	-4.14024	1.67520
-5.40	1.59719	17.53374	19.13093	59.5096	-3.96094	1.59719
-5.20	1.51856	15.64950	17.16806	56.9080	-3.78287	1.51856
-5.00	1.44302	13.83939	15.28241	54.4161	-3.60503	1.44302
-4.80	1.37327	12.16813	13.54140	52.0966	-3.42655	1.37327
-4.60	1.31090	10.67354	11.98443	49.9843	-3.24673	1.31090
-4.40	1.25651	9.37036	10.62687	48.0903	-3.06514	1.25651
-4.20	1.21002	8.25652	9.46654	46.4088	-2.88151	1.21002
-4.00	1.17090	7.31926	8.49017	44.9236	-2.69578	1.17090
-3.80	1.13839	6.54020	7.67859	43.6130	-2.50801	1.13839
-3.60	1.11162	5.89882	7.01044	42.4537	-2.31835	1.11162
-3.40	1.08975	5.37475	6.46450	41.4230	-2.12698	1.08975
-3.20	1.07198	4.94908	6.02106	40.4997	-1.93412	1.07198
-3.00	1.05762	4.60493	5.66255	39.6653	-1.73997	1.05762
-2.80	1.04605	4.32772	5.37377	38.9038	-1.54475	1.04605
-2.60	1.03676	4.10507	5.14183	38.2016	-1.34863	1.03675
-2.40	1.02931	3.92665	4.95597	37.5476	-1.15176	1.02931
-2.20	1.02336	3.78395	4.80731	36.9323	-0.95427	1.02335
-2.00	1.01861	3.66996	4.68857	36.3481	-0.75630	1.01859
-1.80	1.01482	3.57902	4.59385	35.7890	-0.55791	1.01480
-1.60	1.01181	3.50654	4.51835	35.2499	-0.35920	1.01177
-1.40	1.00942	3.44880	4.45822	34.7268	-0.16023	1.00936
-1.20	1.00753	3.40284	4.41038	34.2164	0.03896	1.00744
-1.00	1.00606	3.36628	4.37234	33.7162	0.23832	1.00592
-0.80	1.00493	3.33719	4.34212	33.2241	0.43783	1.00470
-0.60	1.00410	3.31407	4.31816	32.7384	0.63747	1.00374
-0.40	1.00354	3.29569	4.29923	32.2578	0.83723	1.00297
-0.20	1.00326	3.28110	4.28437	31.7811	1.03711	1.00236
0.	1.00331	3.26953	4.27284	31.3075	1.23713	1.00187
0.20	1.00376	3.26037	4.26413	30.8362	1.43733	1.00149
0.40	1.00478	3.25316	4.25794	30.3665	1.63777	1.00118
0.60	1.00664	3.24752	4.25416	29.8978	1.83857	1.00094
0.80	1.00978	3.24321	4.25299	29.4293	2.03992	1.00074
1.00	1.01491	3.24003	4.25494	28.9600	2.24212	1.00059
1.20	1.02316	3.23792	4.26108	28.4887	2.44564	1.00047
1.40	1.03633	3.23689	4.27321	28.0137	2.65119	1.00037
1.60	1.05728	3.23710	4.29438	27.5322	2.85989	1.00029
1.80	1.09054	3.23891	4.32945	27.0401	3.07334	1.00022
2.00	1.14331	3.24296	4.38627	26.5307	3.29386	1.00017
2.20	1.22697	3.25033	4.47731	25.9938	3.52453	1.00013
2.40	1.35960	3.26278	4.62238	25.4130	3.76911	1.00010

TABLE H (Continued)
4800°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.98454	26.34330	28.32785	75.6452	-5.45750	1.98454
-6.80	1.97505	26.11723	28.09227	74.5072	-5.25958	1.97505
-6.60	1.96086	25.78192	27.74278	73.2654	-5.06271	1.96086
-6.40	1.94006	25.29181	27.23187	71.8768	-4.86734	1.94006
-6.20	1.91045	24.59550	26.50595	70.2935	-4.67402	1.91045
-6.00	1.87005	23.64638	25.51642	68.4734	-4.48331	1.87005
-5.80	1.81778	22.41916	24.23694	66.3966	-4.29562	1.81778
-5.60	1.75418	20.92623	22.68040	64.0808	-4.11109	1.75418
-5.40	1.68161	19.22321	20.90482	61.5864	-3.92943	1.68161
-5.20	1.60384	17.39837	19.00221	59.0049	-3.75000	1.60384
-5.00	1.52510	15.55086	17.07596	56.4370	-3.57186	1.52510
-4.80	1.44918	13.76947	15.21865	53.9709	-3.39404	1.44918
-4.60	1.37887	12.11977	13.49864	51.6703	-3.21564	1.37887
-4.40	1.31584	10.64092	11.95676	49.5712	-3.03596	1.31584
-4.20	1.26077	9.34903	10.60980	47.6864	-2.85452	1.26077
-4.00	1.21363	8.24318	9.45682	46.0111	-2.67107	1.21363
-3.80	1.17392	7.31157	8.48549	44.5300	-2.48552	1.17392
-3.60	1.14089	6.53648	7.67737	43.2221	-2.29792	1.14089
-3.40	1.11367	5.89793	7.01159	42.0646	-2.10840	1.11367
-3.20	1.09142	5.37587	6.46729	41.0350	-1.91717	1.09141
-3.00	1.07333	4.95164	6.02498	40.1125	-1.72442	1.07333
-2.80	1.05871	4.60855	5.66725	39.2786	-1.53038	1.05871
-2.60	1.04693	4.33210	5.37903	38.5174	-1.33524	1.04692
-2.40	1.03746	4.11002	5.14749	37.8155	-1.13919	1.03746
-2.20	1.02988	3.93203	4.96191	37.1615	-0.94237	1.02987
-2.00	1.02382	3.78965	4.81346	36.5463	-0.74494	1.02380
-1.80	1.01898	3.67591	4.69488	35.9622	-0.54700	1.01895
-1.60	1.01512	3.58516	4.60078	35.4031	-0.34864	1.01508
-1.40	1.01206	3.51282	4.52488	34.8641	-0.14995	1.01200
-1.20	1.00963	3.45519	4.46483	34.3409	0.04901	1.00954
-1.00	1.00773	3.40932	4.41705	33.8306	0.24819	1.00759
-0.80	1.00626	3.37282	4.37908	33.3304	0.44755	1.00603
-0.60	1.00515	3.34380	4.34895	32.8382	0.64707	1.00479
-0.40	1.00438	3.32072	4.32510	32.3524	0.84674	1.00381
-0.20	1.00393	3.30239	4.30632	31.8717	1.04654	1.00303
0.	1.00384	3.28784	4.29168	31.3948	1.24650	1.00240
0.20	1.00418	3.27632	4.28050	30.9210	1.44665	1.00191
0.40	1.00511	3.26722	4.27233	30.4492	1.64705	1.00152
0.60	1.00690	3.26010	4.26699	29.9789	1.84783	1.00120
0.80	1.00997	3.25459	4.26457	29.5090	2.04915	1.00095
1.00	1.01505	3.25048	4.26553	29.0387	2.25133	1.00076
1.20	1.02325	3.24762	4.27087	28.5667	2.45482	1.00060
1.40	1.03636	3.24601	4.28238	28.0911	2.66035	1.00047
1.60	1.05724	3.24579	4.30303	27.6091	2.86902	1.00037
1.80	1.09042	3.24727	4.33769	27.1167	3.08243	1.00029
2.00	1.14306	3.25112	4.39418	26.6072	3.30291	1.00022
2.20	1.22654	3.25839	4.48493	26.0703	3.53352	1.00017
2.40	1.35888	3.27089	4.62977	25.4898	3.77802	1.00012

TABLE H (Continued)
 4900°K

LOG P/P ₀	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	1.99130	26.04134	28.03263	75.8832	-5.44707	1.99130
-6.80	1.98502	25.89250	27.87753	74.8187	-5.24844	1.98502
-6.60	1.97564	25.67322	27.64887	73.6873	-5.05050	1.97564
-6.40	1.96166	25.34880	27.31045	72.4561	-4.85358	1.96166
-6.20	1.94114	24.87487	26.81600	71.0832	-4.65815	1.94114
-6.00	1.91190	24.20114	26.11304	69.5219	-4.46474	1.91190
-5.80	1.87195	23.28140	25.15335	67.7305	-4.27391	1.87195
-5.60	1.82014	22.08972	23.90986	65.6882	-4.08610	1.82014
-5.40	1.75695	20.63651	22.39345	63.4109	-3.90145	1.75695
-5.20	1.68466	18.97465	20.65932	60.9563	-3.71969	1.68466
-5.00	1.60702	17.18968	18.79670	58.4133	-3.54018	1.60702
-4.80	1.52824	15.37876	16.90699	55.8805	-3.36201	1.52824
-4.60	1.45213	13.62956	15.08169	53.4452	-3.18420	1.45213
-4.40	1.38156	12.00733	13.38888	51.1707	-3.00584	1.38155
-4.20	1.31821	10.55142	11.86963	49.0935	-2.82622	1.31821
-4.00	1.26282	9.27841	10.54124	47.2264	-2.64486	1.26282
-3.80	1.21537	8.18795	9.40332	45.5657	-2.46149	1.21537
-3.60	1.17538	7.26878	8.44416	44.0963	-2.27603	1.17538
-3.40	1.14209	6.50372	7.64581	42.7978	-2.08850	1.14209
-3.20	1.11466	5.87319	6.98785	41.6479	-1.89906	1.11466
-3.00	1.09222	5.35757	6.44979	40.6243	-1.70789	1.09222
-2.80	1.07399	4.93848	6.01247	39.7065	-1.51521	1.07398
-2.60	1.05924	4.59948	5.65872	38.8765	-1.32121	1.05923
-2.40	1.04735	4.32630	5.37366	38.1183	-1.12611	1.04735
-2.20	1.03781	4.10682	5.14463	37.4188	-0.93009	1.03780
-2.00	1.03016	3.93091	4.96106	36.7668	-0.73330	1.03014
-1.80	1.02404	3.79017	4.81421	36.1531	-0.53589	1.02402
-1.60	1.01916	3.67774	4.69690	35.5703	-0.33796	1.01913
-1.40	1.01528	3.58803	4.60331	35.0121	-0.13967	1.01522
-1.20	1.01220	3.51651	4.52872	34.4738	0.05906	1.01211
-1.00	1.00978	3.45955	4.46933	33.9513	0.25802	1.00963
-0.80	1.00789	3.41420	4.42209	33.4414	0.45721	1.00766
-0.60	1.00645	3.37812	4.38457	32.9415	0.65659	1.00609
-0.40	1.00541	3.34943	4.35484	32.4496	0.85614	1.00484
-0.20	1.00475	3.32663	4.33137	31.9639	1.05585	1.00384
0.	1.00448	3.30852	4.31300	31.4832	1.25574	1.00305
0.20	1.00469	3.29417	4.29886	31.0062	1.45583	1.00243
0.40	1.00551	3.28282	4.28833	30.5320	1.65618	1.00193
0.60	1.00721	3.27390	4.28112	30.0597	1.85692	1.00153
0.80	1.01021	3.26698	4.27720	29.5883	2.05821	1.00121
1.00	1.01522	3.26174	4.27697	29.1168	2.26036	1.00096
1.20	1.02336	3.25800	4.28136	28.6438	2.46383	1.00076
1.40	1.03642	3.25569	4.29210	28.1675	2.66933	1.00060
1.60	1.05723	3.25492	4.31215	27.6850	2.87797	1.00047
1.80	1.09031	3.25600	4.34632	27.1922	3.09135	1.00037
2.00	1.14283	3.25957	4.40239	26.6824	3.31178	1.00028
2.20	1.22611	3.26669	4.49281	26.1456	3.54233	1.00021
2.40	1.35816	3.27919	4.63735	25.5653	3.78675	1.00016

TABLE H (Continued)

5000°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.99585	25.70431	27.70016	76.0688	-5.43730	1.99585
-6.80	1.99153	25.60039	27.59192	75.0467	-5.23824	1.99153
-6.60	1.98520	25.45261	27.43781	73.9831	-5.03963	1.98520
-6.40	1.97577	25.23607	27.21183	72.8544	-4.84169	1.97577
-6.20	1.96173	24.91664	26.87837	71.6281	-4.64479	1.96173
-6.00	1.94116	24.45080	26.39196	70.2633	-4.44937	1.94116
-5.80	1.91188	23.78916	25.70104	68.7141	-4.25597	1.91188
-5.60	1.87187	22.88647	24.75834	66.9397	-4.06515	1.87187
-5.40	1.82002	21.71733	23.53736	64.9200	-3.87735	1.82002
-5.20	1.75679	20.29207	22.04886	62.6708	-3.69271	1.75679
-5.00	1.68447	18.66261	20.34708	60.2486	-3.51097	1.68447
-4.80	1.60681	16.91282	18.51963	57.7409	-3.33147	1.60681
-4.60	1.52803	15.13792	16.66595	55.2442	-3.15330	1.52803
-4.40	1.45193	13.42378	14.87571	52.8441	-2.97548	1.45193
-4.20	1.38137	11.83426	13.21562	50.6024	-2.79712	1.38137
-4.00	1.31804	10.40784	11.72589	48.5547	-2.61750	1.31804
-3.80	1.26268	9.16072	10.42339	46.7137	-2.43614	1.26268
-3.60	1.21525	8.09249	9.30774	45.0752	-2.25276	1.21525
-3.40	1.17528	7.19210	8.36738	43.6246	-2.06729	1.17528
-3.20	1.14201	6.44270	7.58471	42.3419	-1.87976	1.14200
-3.00	1.11459	5.82511	6.93969	41.2049	-1.69032	1.11458
-2.80	1.09216	5.32007	6.41223	40.1919	-1.49914	1.09216
-2.60	1.07394	4.90958	5.98353	39.2828	-1.30645	1.07394
-2.40	1.05920	4.57755	5.63675	38.4597	-1.11245	1.05920
-2.20	1.04733	4.30999	5.35732	37.7072	-0.91735	1.04732
-2.00	1.03779	4.09503	5.13282	37.0122	-0.72132	1.03777
-1.80	1.03015	3.92273	4.95288	36.3638	-0.52453	1.03012
-1.60	1.02404	3.78489	4.80893	35.7531	-0.32711	1.02400
-1.40	1.01917	3.67478	4.69395	35.1725	-0.12918	1.01911
-1.20	1.01530	3.58692	4.60222	34.6162	0.06917	1.01521
-1.00	1.01225	3.51688	4.52912	34.0794	0.26786	1.01210
-0.80	1.00985	3.46109	4.47094	33.5580	0.46683	1.00962
-0.60	1.00801	3.41668	4.42469	33.0490	0.66604	1.00765
-0.40	1.00665	3.38135	4.38800	32.5498	0.86545	1.00608
-0.20	1.00574	3.35326	4.35899	32.0583	1.06505	1.00483
0.	1.00527	3.33094	4.33621	31.5730	1.26485	1.00384
0.20	1.00531	3.31324	4.31855	31.0923	1.46487	1.00305
0.40	1.00600	3.29923	4.30523	30.6152	1.66517	1.00242
0.60	1.00759	3.28819	4.29579	30.1406	1.86586	1.00192
0.80	1.01051	3.27958	4.29009	29.6674	2.06711	1.00152
1.00	1.01545	3.27301	4.28845	29.1944	2.26923	1.00121
1.20	1.02352	3.26820	4.29172	28.7203	2.47266	1.00095
1.40	1.03650	3.26506	4.30156	28.2430	2.67814	1.00075
1.60	1.05724	3.26364	4.32088	27.7599	2.88674	1.00059
1.80	1.09023	3.26423	4.35446	27.2666	3.10009	1.00046
2.00	1.14261	3.26744	4.41005	26.7566	3.32047	1.00036
2.20	1.22570	3.27436	4.50006	26.2196	3.55095	1.00027
2.40	1.35746	3.28679	4.64425	25.6396	3.79530	1.00020

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TABLE H (Continued)

5100°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	1.99925	25.36078	27.36002	76.2310	-5.42796	1.99925
-6.80	1.99605	25.28109	27.27713	75.2313	-5.22866	1.99605
-6.60	1.99160	25.17567	27.16727	74.2076	-5.02963	1.99160
-6.40	1.98513	25.02698	27.01211	73.1432	-4.83104	1.98513
-6.20	1.97552	24.81021	26.78574	72.0143	-4.63315	1.97552
-6.00	1.96126	24.49149	26.45275	70.7889	-4.43630	1.96126
-5.80	1.94039	24.02776	25.96815	69.4264	-4.24094	1.94039
-5.60	1.91074	23.37048	25.28122	67.8820	-4.04763	1.91074
-5.40	1.87031	22.47562	24.34593	66.1161	-3.85692	1.87031
-5.20	1.81803	21.31925	23.13728	64.1100	-3.66923	1.81803
-5.00	1.75441	19.91291	21.66732	61.8807	-3.48470	1.75441
-4.80	1.68183	18.30885	19.99067	59.4851	-3.30305	1.68183
-4.60	1.60405	16.59008	18.19413	57.0096	-3.12361	1.60405
-4.40	1.52529	14.84997	16.37526	54.5490	-2.94548	1.52529
-4.20	1.44935	13.17212	14.62147	52.1864	-2.76766	1.44935
-4.00	1.37901	11.61827	12.99729	49.9815	-2.58926	1.37901
-3.80	1.31596	10.22533	11.54128	47.9683	-2.40959	1.31596
-3.60	1.26087	9.00846	10.26933	46.1584	-2.22816	1.26087
-3.40	1.21372	7.96682	9.18054	44.5473	-2.04471	1.21372
-3.20	1.17400	7.08929	8.26329	43.1202	-1.85916	1.17399
-3.00	1.14095	6.35921	7.50015	41.8574	-1.67157	1.14094
-2.80	1.11372	5.75772	6.87143	40.7369	-1.48206	1.11371
-2.60	1.09146	5.26597	6.35743	39.7376	-1.29082	1.09145
-2.40	1.07337	4.86637	5.93973	38.8397	-1.09808	1.07336
-2.20	1.05874	4.54318	5.60192	38.0257	-0.90404	1.05873
-2.00	1.04696	4.28279	5.32974	37.2805	-0.70890	1.04694
-1.80	1.03750	4.07360	5.11109	36.5914	-0.51284	1.03747
-1.60	1.02992	3.90594	4.93586	35.9478	-0.31603	1.02988
-1.40	1.02387	3.77182	4.79569	35.3408	-0.11859	1.02381
-1.20	1.01905	3.66468	4.68373	34.7634	0.07937	1.01896
-1.00	1.01523	3.57920	4.59444	34.2095	0.27774	1.01509
-0.80	1.01223	3.51106	4.52329	33.6745	0.47645	1.01200
-0.60	1.00991	3.45679	4.46670	33.1547	0.67545	1.00955
-0.40	1.00816	3.41359	4.42175	32.6468	0.87470	1.00759
-0.20	1.00693	3.37923	4.38616	32.1485	1.07417	1.00603
0.	1.00622	3.35192	4.35814	31.6576	1.27386	1.00479
0.20	1.00607	3.33023	4.33630	31.1726	1.47380	1.00381
0.40	1.00660	3.31306	4.31966	30.6921	1.67403	1.00302
0.60	1.00806	3.29950	4.30757	30.2147	1.87466	1.00240
0.80	1.01087	3.28889	4.29977	29.7392	2.07587	1.00190
1.00	1.01572	3.28073	4.29645	29.2645	2.27794	1.00151
1.20	1.02371	3.27466	4.29837	28.7890	2.48135	1.00119
1.40	1.03662	3.27052	4.30714	28.3107	2.68679	1.00094
1.60	1.05727	3.26832	4.32560	27.8267	2.89536	1.00074
1.80	1.09016	3.26831	4.35848	27.3328	3.10866	1.00058
2.00	1.14241	3.27108	4.41349	26.8225	3.32899	1.00044
2.20	1.22531	3.27771	4.50301	26.2854	3.55942	1.00034
2.40	1.35677	3.29001	4.64678	25.7054	3.80368	1.00025

TABLE H (Continued)

5200°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.00211	25.02384	27.02595	76.3828	-5.41891	2.00211
-6.80	1.99947	24.95423	26.95370	75.3917	-5.21948	1.99947
-6.60	1.99610	24.87144	26.86754	74.3889	-5.02021	1.99610
-6.40	1.99145	24.76289	26.75435	73.3621	-4.82123	1.99145
-6.20	1.98472	24.61075	26.59547	72.2943	-4.62270	1.98472
-6.00	1.97476	24.38997	26.36468	71.1616	-4.42488	1.97476
-5.80	1.96001	24.06634	26.02635	69.9318	-4.22814	1.96001
-5.60	1.93849	23.59707	25.53556	68.5646	-4.03293	1.93849
-5.40	1.90802	22.93436	24.84238	67.0158	-3.83981	1.90802
-5.20	1.86665	22.03593	23.90259	65.2478	-3.64933	1.86665
-5.00	1.81340	20.88058	22.69396	63.2446	-3.46190	1.81340
-4.80	1.74895	19.48276	21.23171	61.0261	-3.27762	1.74895
-4.60	1.67579	17.89670	19.57249	58.6512	-3.09618	1.67579
-4.40	1.59777	16.20542	17.80319	56.2061	-2.91688	1.59777
-4.20	1.51910	14.50037	16.01947	53.7834	-2.73881	1.51910
-4.00	1.44351	12.86216	14.30567	51.4632	-2.56098	1.44351
-3.80	1.37371	11.34939	12.72310	49.3020	-2.38250	1.37371
-3.60	1.31127	9.99639	11.30766	47.3310	-2.20270	1.31127
-3.40	1.25683	8.81658	10.07340	45.5602	-2.02112	1.25683
-3.20	1.21029	7.80810	9.01838	43.9839	-1.83751	1.21029
-3.00	1.17113	6.95945	8.13058	42.5872	-1.65179	1.17113
-2.80	1.13857	6.25402	7.39259	41.3502	-1.46404	1.13857
-2.60	1.11177	5.67324	6.78501	40.2515	-1.27438	1.11177
-2.40	1.08987	5.19868	6.28855	39.2701	-1.08302	1.08987
-2.20	1.07209	4.81321	5.88530	38.3870	-0.89017	1.07208
-2.00	1.05771	4.50156	5.55927	37.5851	-0.69603	1.05769
-1.80	1.04613	4.25052	5.29666	36.8497	-0.50081	1.04611
-1.60	1.03684	4.04890	5.08574	36.1685	-0.30469	1.03680
-1.40	1.02940	3.88733	4.91673	35.5313	-0.10781	1.02935
-1.20	1.02347	3.75809	4.78157	34.9294	0.08968	1.02338
-1.00	1.01876	3.65487	4.67363	34.3560	0.28768	1.01862
-0.80	1.01504	3.57252	4.58756	33.8053	0.48609	1.01482
-0.60	1.01215	3.50688	4.51903	33.2730	0.68485	1.01179
-0.40	1.00994	3.45461	4.46455	32.7551	0.88390	1.00937
-0.20	1.00835	3.41300	4.42135	32.2488	1.08321	1.00745
0.	1.00735	3.37992	4.38727	31.7516	1.28278	1.00592
0.20	1.00696	3.35364	4.36060	31.2615	1.48262	1.00470
0.40	1.00731	3.33281	4.34011	30.7769	1.68276	1.00374
0.60	1.00862	3.31634	4.32496	30.2963	1.88333	1.00296
0.80	1.01131	3.30341	4.31472	29.8184	2.08449	1.00235
1.00	1.01605	3.29340	4.30945	29.3416	2.28652	1.00186
1.20	1.02395	3.28587	4.30982	28.8645	2.48988	1.00147
1.40	1.03677	3.28058	4.31735	28.3849	2.69529	1.00116
1.60	1.05734	3.27746	4.33480	27.9000	2.90382	1.00091
1.80	1.09012	3.27675	4.36687	27.4054	3.11708	1.00071
2.00	1.14223	3.27899	4.42122	26.8946	3.33736	1.00055
2.20	1.22493	3.28525	4.51018	26.3572	3.56771	1.00042
2.40	1.35609	3.29736	4.65345	25.7773	3.81189	1.00031

TABLE H (Continued)
5300°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.00490	24.70472	26.70961	76.5367	-5.41003	2.00490
-6.80	2.00242	24.63523	26.63765	75.5445	-5.21057	2.00242
-6.60	1.99960	24.56189	26.56149	74.5497	-5.01118	1.99960
-6.40	1.99602	24.47524	26.47126	73.5429	-4.81196	1.99602
-6.20	1.99110	24.36226	26.35336	72.5118	-4.61303	1.99110
-6.00	1.98400	24.20461	26.18861	71.4388	-4.41458	1.98400
-5.80	1.97353	23.97660	25.95013	70.2993	-4.21688	1.97353
-5.60	1.95807	23.64367	25.60175	69.0609	-4.02029	1.95807
-5.40	1.93562	23.16278	25.09839	67.6831	-3.82530	1.93562
-5.20	1.90396	22.48698	24.39094	66.1228	-3.63247	1.90396
-5.00	1.86123	21.57629	23.43752	64.3447	-3.44232	1.86123
-4.80	1.80661	20.41324	22.21985	62.3367	-3.25526	1.80661
-4.60	1.74099	19.01655	20.75754	60.1227	-3.07133	1.74099
-4.40	1.66705	17.44346	19.11051	57.7646	-2.89018	1.66705
-4.20	1.58873	15.77745	17.36618	55.3489	-2.71107	1.58873
-4.00	1.51024	14.10788	15.61812	52.9658	-2.53308	1.51024
-3.80	1.43519	12.51175	13.94694	50.6917	-2.35521	1.43519
-3.60	1.36617	11.04380	12.40997	48.5789	-2.17662	1.36617
-3.40	1.30463	9.73512	11.03976	46.6556	-1.99664	1.30463
-3.20	1.25111	8.59686	9.84797	44.9292	-1.81483	1.25111
-3.00	1.20544	7.62584	8.83129	43.3928	-1.63098	1.20544
-2.80	1.16708	6.81001	7.97709	42.0309	-1.44502	1.16708
-2.60	1.13523	6.13268	7.26791	40.8237	-1.25704	1.13522
-2.40	1.10903	5.57558	6.68461	39.7500	-1.06718	1.10903
-2.20	1.08764	5.12071	6.20835	38.7895	-0.87564	1.08763
-2.00	1.07028	4.75145	5.82173	37.9235	-0.68263	1.07027
-1.80	1.05626	4.45305	5.50931	37.1356	-0.48835	1.05623
-1.60	1.04497	4.21278	5.25775	36.4116	-0.29302	1.04493
-1.40	1.03592	4.01985	5.05577	35.7396	-0.09680	1.03586
-1.20	1.02868	3.86529	4.89397	35.1097	0.10016	1.02859
-1.00	1.02292	3.74168	4.76460	34.5138	0.29772	1.02278
-0.80	1.01836	3.64297	4.66133	33.9451	0.49578	1.01814
-0.60	1.01479	3.56422	4.57902	33.3982	0.69425	1.01443
-0.40	1.01205	3.50147	4.51352	32.8688	0.89308	1.01148
-0.20	1.01003	3.45150	4.46153	32.3532	1.09221	1.00913
0.	1.00868	3.41174	4.42042	31.8487	1.29163	1.00725
0.20	1.00802	3.38015	4.38816	31.3527	1.49134	1.00576
0.40	1.00815	3.35507	4.36322	30.8635	1.69140	1.00458
0.60	1.00928	3.33523	4.34451	30.3791	1.89189	1.00363
0.80	1.01183	3.31962	4.33144	29.8982	2.09298	1.00288
1.00	1.01645	3.30747	4.32392	29.4191	2.29496	1.00228
1.20	1.02424	3.29824	4.32249	28.9402	2.49828	1.00181
1.40	1.03697	3.29160	4.32857	28.4592	2.70364	1.00142
1.60	1.05744	3.28742	4.34486	27.9731	2.91213	1.00112
1.80	1.09011	3.28588	4.37599	27.4776	3.12535	1.00087
2.00	1.14207	3.28749	4.42956	26.9662	3.34557	1.00067
2.20	1.22457	3.29330	4.51787	26.4285	3.57586	1.00051
2.40	1.35544	3.30514	4.66058	25.8486	3.81996	1.00038

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TABLE H (Continued)

5400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	2.00795	24.41070	26.41864	76.7013	-5.40125	2.00795
-6.80	2.00532	24.33344	26.33876	75.6999	-5.20182	2.00532
-6.60	2.00265	24.25994	26.26259	74.7035	-5.00240	2.00265
-6.40	1.99962	24.18251	26.18213	73.7045	-4.80306	1.99962
-6.20	1.99579	24.09124	26.08703	72.6933	-4.60389	1.99579
-6.00	1.99053	23.97254	25.96307	71.6566	-4.40504	1.99053
-5.80	1.98296	23.80730	25.79026	70.5763	-4.20669	1.98296
-5.60	1.97181	23.56900	25.54081	69.4272	-4.00914	1.97181
-5.40	1.95542	23.22230	25.17772	68.1760	-3.81277	1.95542
-5.20	1.93171	22.72388	24.65560	66.7822	-3.61806	1.93171
-5.00	1.89850	22.02780	23.92631	65.2038	-3.42559	1.89851
-4.80	1.85402	21.09699	22.95101	63.4085	-3.23589	1.85402
-4.60	1.79767	19.91884	21.71650	61.3890	-3.04930	1.79767
-4.40	1.73060	18.51746	20.24806	59.1749	-2.86581	1.73060
-4.20	1.65574	16.95387	18.60961	56.8313	-2.68501	1.65574
-4.00	1.57713	15.31218	16.88931	54.4452	-2.50614	1.57713
-3.80	1.49893	13.67928	15.17821	52.1041	-2.32822	1.49893
-3.60	1.42463	12.12790	13.55253	49.8797	-2.15030	1.42463
-3.40	1.35664	10.70831	12.06495	47.8200	-1.97154	1.35664
-3.20	1.29626	9.44782	10.74408	45.9490	-1.79131	1.29626
-3.00	1.24391	8.35493	9.59885	44.2715	-1.60922	1.24391
-2.80	1.19937	7.42494	8.62431	42.7792	-1.42505	1.19936
-2.60	1.16201	6.64510	7.80711	41.4559	-1.23880	1.16201
-2.40	1.13104	5.99864	7.12968	40.2817	-1.05053	1.13104
-2.20	1.10561	5.46756	6.57317	39.2358	-0.86041	1.10560
-2.00	1.08486	5.03435	6.11921	38.2983	-0.66863	1.08484
-1.80	1.06803	4.68294	5.75097	37.4514	-0.47542	1.06801
-1.60	1.05445	4.39912	5.45357	36.6789	-0.28098	1.05441
-1.40	1.04353	4.17070	5.21423	35.9675	-0.08550	1.04347
-1.20	1.03478	3.98735	5.02213	35.3057	0.11084	1.03469
-1.00	1.02780	3.84051	4.86830	34.6840	0.30790	1.02765
-0.80	1.02226	3.72310	4.74536	34.0946	0.50555	1.02203
-0.60	1.01790	3.62935	4.64725	33.5311	0.70370	1.01754
-0.40	1.01452	3.55459	4.56911	32.9884	0.90226	1.01395
-0.20	1.01200	3.49502	4.50701	32.4622	1.10117	1.01110
0.	1.01025	3.44759	4.45784	31.9492	1.30042	1.00882
0.20	1.00926	3.40988	4.41914	31.4465	1.50000	1.00701
0.40	1.00913	3.37993	4.38906	30.9518	1.69994	1.00557
0.60	1.01006	3.35620	4.36626	30.4632	1.90034	1.00442
0.80	1.01244	3.33749	4.34993	29.9789	2.10136	1.00351
1.00	1.01692	3.32289	4.33981	29.4971	2.30328	1.00278
1.20	1.02460	3.31170	4.33630	29.0160	2.50655	1.00220
1.40	1.03722	3.30350	4.34071	28.5333	2.71186	1.00173
1.60	1.05758	3.29809	4.35567	28.0459	2.92031	1.00136
1.80	1.09013	3.29558	4.38571	27.5494	3.13347	1.00106
2.00	1.14194	3.29645	4.43839	27.0373	3.35364	1.00082
2.20	1.22424	3.30171	4.52595	26.4991	3.58386	1.00062
2.40	1.35481	3.31320	4.66800	25.9191	3.82787	1.00046

TABLE H (Continued)

5500°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.01153	24.14784	26.15937	76.8836	-5.39251	2.01153
-6.80	2.00848	24.05576	26.06424	75.8659	-5.19317	2.00848
-6.60	2.00566	23.97437	25.98003	74.8602	-4.99378	2.00566
-6.40	2.00279	23.89679	25.89958	73.8596	-4.79440	2.00279
-6.20	1.99952	23.81492	25.81444	72.8562	-4.59511	1.99952
-6.00	1.99538	23.71825	25.71363	71.8396	-4.39601	1.99538
-5.80	1.98971	23.59244	25.58215	70.7961	-4.19725	1.98971
-5.60	1.98154	23.41744	25.39898	69.7066	-3.99904	1.98154
-5.40	1.96954	23.16560	25.13514	68.5448	-3.80167	1.96954
-5.20	1.95197	22.80058	24.75255	67.2765	-3.60556	1.95197
-5.00	1.92670	22.27876	24.20546	65.8613	-3.41122	1.92670
-4.80	1.89156	21.55552	23.44709	64.2584	-3.21922	1.89156
-4.60	1.84495	20.59753	22.44248	62.4396	-3.03005	1.84495
-4.40	1.78653	19.39814	21.18467	60.4036	-2.84403	1.78653
-4.20	1.71781	17.98786	19.70567	58.1861	-2.66106	1.71781
-4.00	1.64196	16.43195	18.07391	55.8564	-2.48068	1.64196
-3.80	1.56312	14.81494	16.37806	53.5013	-2.30205	1.56312
-3.60	1.48538	13.22069	14.70607	51.2052	-2.12420	1.48538
-3.40	1.41205	11.71704	13.12909	49.0347	-1.94619	1.41205
-3.20	1.34534	10.34919	11.69453	47.0322	-1.76721	1.34534
-3.00	1.28638	9.14030	10.42668	45.2176	-1.58667	1.28638
-2.80	1.23545	8.09600	9.33145	43.5929	-1.40421	1.23544
-2.60	1.19223	7.20992	8.40214	42.1482	-1.21968	1.19222
-2.40	1.15607	6.46857	7.62464	40.8663	-1.03305	1.15606
-2.20	1.12615	5.85511	6.98126	39.7276	-0.84444	1.12614
-2.00	1.10161	5.35184	6.45345	38.7116	-0.65401	1.10159
-1.80	1.08161	4.94177	6.02338	37.7990	-0.46197	1.08159
-1.60	1.06541	4.60941	5.67482	36.9724	-0.26857	1.06538
-1.40	1.05235	4.34116	5.39351	36.2166	-0.07388	1.05229
-1.20	1.04186	4.12538	5.16724	35.5187	0.12177	1.04176
-1.00	1.03347	3.95226	4.98573	34.8678	0.31826	1.03332
-0.80	1.02679	3.81365	4.84044	34.2548	0.51544	1.02656
-0.60	1.02151	3.70286	4.72437	33.6725	0.71321	1.02115
-0.40	1.01741	3.61442	4.63183	33.1146	0.91146	1.01684
-0.20	1.01430	3.54390	4.55819	32.5763	1.11013	1.01339
0.	1.01208	3.48772	4.49980	32.0535	1.30918	1.01065
0.20	1.01072	3.44302	4.45374	31.5431	1.50859	1.00847
0.40	1.01029	3.40750	4.41778	31.0423	1.70841	1.00673
0.60	1.01097	3.37933	4.39030	30.5487	1.90870	1.00534
0.80	1.01316	3.35708	4.37024	30.0605	2.10964	1.00424
1.00	1.01748	3.33965	4.35713	29.5756	2.31149	1.00336
1.20	1.02502	3.32627	4.35124	29.0920	2.51469	1.00266
1.40	1.03752	3.31623	4.35375	28.6073	2.71996	1.00209
1.60	1.05776	3.30941	4.36717	28.1184	2.92835	1.00164
1.80	1.09019	3.30578	4.39597	27.6208	3.14146	1.00128
2.00	1.14185	3.30578	4.44763	27.1078	3.36157	1.00099
2.20	1.22393	3.31040	4.53433	26.5691	3.59172	1.00075
2.40	1.35419	3.32145	4.67564	25.9888	3.83564	1.00055

TABLE H (Continued)

5600°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.01590	23.92170	25.93759	77.0903	-5.38374	2.01590
-6.80	2.01216	23.80781	25.81997	76.0490	-5.18455	2.01216
-6.60	2.00892	23.71163	25.72055	75.0269	-4.98525	2.00892
-6.40	2.00590	23.62633	25.63223	74.0172	-4.78590	2.00590
-6.20	2.00281	23.54464	25.54745	73.0124	-4.58657	2.00281
-6.00	1.99927	23.45791	25.45718	72.0042	-4.38734	1.99928
-5.80	1.99478	23.35497	25.34975	70.9815	-4.18832	1.99478
-5.60	1.98859	23.22055	25.20914	69.9298	-3.98967	1.98859
-5.40	1.97969	23.03341	25.01310	68.8288	-3.79162	1.97969
-5.20	1.96664	22.76455	24.73120	67.6511	-3.59449	1.96664
-5.00	1.94762	22.37646	24.32408	66.3614	-3.39871	1.94762
-4.80	1.92045	21.82532	23.74577	64.9193	-3.20481	1.92045
-4.60	1.88302	21.06835	22.95137	63.2861	-3.01336	1.88302
-4.40	1.83391	20.07695	21.91086	61.4384	-2.82483	1.83391
-4.20	1.77317	18.85159	20.62475	59.3820	-2.63946	1.77317
-4.00	1.70265	17.42995	19.13260	57.1597	-2.45709	1.70265
-3.80	1.62582	15.88156	17.50738	54.8448	-2.27714	1.62582
-3.60	1.54688	14.29091	15.83780	52.5236	-2.09875	1.54688
-3.40	1.46981	12.73808	14.20789	50.2763	-1.92095	1.46981
-3.20	1.39770	11.28536	12.68306	48.1635	-1.74280	1.39770
-3.00	1.33252	9.97246	11.30498	46.2222	-1.56354	1.33252
-2.80	1.27522	8.81813	10.09335	44.4678	-1.38263	1.27521
-2.60	1.22591	7.82503	9.05094	42.8991	-1.19975	1.22591
-2.40	1.18421	6.98507	8.16928	41.5044	-1.01478	1.18421
-2.20	1.14941	6.28407	7.43349	40.2663	-0.82774	1.14940
-2.00	1.12068	5.70515	6.82582	39.1649	-0.63873	1.12066
-1.80	1.09714	5.23094	6.32808	38.1802	-0.44795	1.09712
-1.60	1.07799	4.84501	5.92300	37.2936	-0.25560	1.07795
-1.40	1.06250	4.53252	5.59502	36.4884	-0.06188	1.06244
-1.20	1.05002	4.28050	5.33052	35.7500	0.13298	1.04992
-1.00	1.04001	4.07790	5.11791	35.0663	0.32883	1.03986
-0.80	1.03203	3.91542	4.94745	34.4268	0.52548	1.03180
-0.60	1.02570	3.78538	4.81108	33.8230	0.72281	1.02534
-0.40	1.02075	3.68147	4.70222	33.2479	0.92071	1.02018
-0.20	1.01696	3.59855	4.61551	32.6958	1.11909	1.01606
0.	1.01420	3.53245	4.54664	32.1621	1.31791	1.01277
0.20	1.01241	3.47981	4.49222	31.6428	1.51714	1.01015
0.40	1.01163	3.43796	4.44958	31.1350	1.71681	1.00807
0.60	1.01204	3.40473	4.41677	30.6358	1.91698	1.00641
0.80	1.01399	3.37846	4.39245	30.1431	2.11782	1.00508
1.00	1.01813	3.35782	4.37595	29.6547	2.31950	1.00403
1.20	1.02552	3.34183	4.36735	29.1683	2.52273	1.00319
1.40	1.03788	3.32981	4.36769	28.6814	2.72794	1.00251
1.60	1.05799	3.32137	4.37936	28.1907	2.93627	1.00197
1.80	1.09028	3.31646	4.40674	27.6917	3.14933	1.00154
2.00	1.14178	3.31546	4.45724	27.1777	3.36937	1.00110
2.20	1.22365	3.31932	4.54297	26.6383	3.59945	1.00090
2.40	1.35361	3.32983	4.68343	26.0577	3.84328	1.00067

TABLE H (Continued)

5700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.02131	23.73801	25.75932	77.3285	-5.37489	2.02132
-6.80	2.01662	23.59491	25.61152	76.2556	-5.17590	2.01662
-6.60	2.01268	23.47715	25.48984	75.2101	-4.97675	2.01268
-6.40	2.00925	23.37737	25.38662	74.1843	-4.77749	2.00925
-6.20	2.00603	23.28838	25.29441	73.1708	-4.57819	2.00603
-6.00	2.00270	23.20247	25.20517	72.1618	-4.37891	2.00270
-5.80	1.99886	23.11040	25.10926	71.1483	-4.17974	1.99886
-5.60	1.99393	23.00018	24.99411	70.1186	-3.98081	1.99393
-5.40	1.98713	22.85543	24.84256	69.0571	-3.78230	1.98713
-5.20	1.97734	22.65348	24.63082	67.9422	-3.58444	1.97734
-5.00	1.96302	22.36378	24.32680	66.7450	-3.38760	1.96302
-4.80	1.94225	21.94757	23.88982	65.4292	-3.19222	1.94225
-4.60	1.91283	21.36108	23.27390	63.9547	-2.99885	1.91283
-4.40	1.87272	20.56413	22.43686	62.2857	-2.80805	1.87272
-4.20	1.82081	19.53405	21.35485	60.4046	-2.62026	1.82081
-4.00	1.75752	18.27950	20.03702	58.3258	-2.43562	1.75752
-3.80	1.68516	16.84581	18.53098	56.0991	-2.25388	1.68516
-3.60	1.60745	15.30648	16.91393	53.8015	-2.07439	1.60745
-3.40	1.52860	13.74509	15.27369	51.5180	-1.89623	1.52860
-3.20	1.45244	12.23710	13.68954	49.3238	-1.71843	1.45244
-3.00	1.38181	10.83868	12.22049	47.2730	-1.54008	1.38181
-2.80	1.31842	9.58371	10.90213	45.3966	-1.36047	1.31842
-2.60	1.26300	8.48644	9.74944	43.7052	-1.17912	1.26299
-2.40	1.21552	7.54655	8.76207	42.1949	-0.99576	1.21551
-2.20	1.17550	6.75432	7.92982	40.8524	-0.81030	1.17549
-2.00	1.14220	6.09493	7.23713	39.6596	-0.62278	1.14218
-1.80	1.11475	5.55151	6.66626	38.5967	-0.43335	1.11473
-1.60	1.09231	5.10713	6.19944	37.6443	-0.24218	1.09228
-1.40	1.07409	4.74594	5.82003	36.7844	-0.04949	1.07403
-1.20	1.05936	4.45378	5.51314	36.0011	0.14452	1.05927
-1.00	1.04752	4.21835	5.26587	35.2807	0.33964	1.04737
-0.80	1.03805	4.02920	5.06724	34.6114	0.53569	1.03781
-0.60	1.03052	3.87759	4.90811	33.9835	0.73253	1.03015
-0.40	1.02460	3.75630	4.78090	33.3891	0.93003	1.02402
-0.20	1.02003	3.65941	4.67944	32.8215	1.12809	1.01913
0.	1.01664	3.58212	4.59876	32.2753	1.32664	1.01522
0.20	1.01435	3.52053	4.53488	31.7461	1.52566	1.01210
0.40	1.01318	3.47152	4.48469	31.2302	1.72516	1.00962
0.60	1.01326	3.43258	4.44585	30.7247	1.92520	1.00764
0.80	1.01496	3.40175	4.41672	30.2270	2.12592	1.00606
1.00	1.01889	3.37748	4.39637	29.7345	2.32760	1.00480
1.20	1.02610	3.35859	4.38469	29.2449	2.53066	1.00380
1.40	1.03831	3.34426	4.38257	28.7554	2.73580	1.00300
1.60	1.05828	3.33398	4.39226	28.2628	2.94408	1.00236
1.80	1.09042	3.32762	4.41804	27.7622	3.15707	1.00184
2.00	1.14175	3.32547	4.46722	27.2470	3.37705	1.00142
2.20	1.22341	3.32844	4.55185	26.7068	3.60704	1.00108
2.40	1.35305	3.33831	4.69137	26.1257	3.85079	1.00080

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TABLE H (Continued)
5800°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.02806	23.60277	25.63083	77.6052	-5.36589	2.02806
-6.80	2.02209	23.42226	25.44434	76.4921	-5.16717	2.02209
-6.60	2.01719	23.27579	25.29298	75.4156	-4.96823	2.01719
-6.40	2.01307	23.15493	25.16800	74.3668	-4.76911	2.01307
-6.20	2.00945	23.05202	25.06147	73.3376	-4.56989	2.00945
-6.00	2.00602	22.95953	24.96555	72.3206	-4.37064	2.00602
-5.80	2.00244	22.86922	24.87166	71.3073	-4.17141	2.00244
-5.60	1.99824	22.77120	24.76944	70.2880	-3.97232	1.99824
-5.40	1.99281	22.65249	24.64530	69.2503	-3.77351	1.99281
-5.20	1.98527	22.49540	24.48066	68.1771	-3.57515	1.98527
-5.00	1.97439	22.27562	24.25001	67.0454	-3.37754	1.97440
-4.80	1.95855	21.96083	23.91939	65.8248	-3.18104	1.95855
-4.60	1.93571	21.51108	23.44679	64.4780	-2.98613	1.93571
-4.40	1.90365	20.88313	22.78678	62.9657	-2.79338	1.90365
-4.20	1.86051	20.04044	21.90095	61.2558	-2.60334	1.86051
-4.00	1.80551	18.96753	20.77304	59.3383	-2.41637	1.80551
-3.80	1.73956	17.68229	19.42184	57.2364	-2.23253	1.73956
-3.60	1.66540	16.23773	17.90313	55.0075	-2.05145	1.66540
-3.40	1.58697	14.71057	16.29754	52.7314	-1.87240	1.58697
-3.20	1.50848	13.18241	14.69089	50.4906	-1.69443	1.50848
-3.00	1.43352	11.72320	13.15673	48.3541	-1.51657	1.43352
-2.80	1.36464	10.38248	11.74712	46.3694	-1.33795	1.36464
-2.60	1.30328	9.18813	10.49141	44.5610	-1.15793	1.30328
-2.40	1.24994	8.14993	9.39987	42.9352	-0.97608	1.24993
-2.20	1.20446	7.26469	8.46915	41.4851	-0.79218	1.20445
-2.00	1.16626	6.52120	7.68746	40.1960	-0.60618	1.16624
-1.80	1.13456	5.90412	7.03867	39.0494	-0.41815	1.13453
-1.60	1.10850	5.39667	6.50517	38.0257	-0.22824	1.10846
-1.40	1.08723	4.98243	6.06966	37.1060	-0.03665	1.08717
-1.20	1.06999	4.64620	5.71618	36.2732	0.15641	1.06989
-1.00	1.05608	4.37452	5.43059	35.5121	0.35072	1.05593
-0.80	1.04492	4.15577	5.20069	34.8097	0.54611	1.04469
-0.60	1.03602	3.98014	5.01617	34.1550	0.74240	1.03566
-0.40	1.02900	3.83945	4.86845	33.5388	0.93944	1.02843
-0.20	1.02355	3.72694	4.75049	32.9538	1.13714	1.02264
0.	1.01945	3.63710	4.65655	32.3936	1.33539	1.01802
0.20	1.01659	3.56546	4.58205	31.8532	1.53417	1.01434
0.40	1.01495	3.50841	4.52336	31.3284	1.73347	1.01140
0.60	1.01468	3.46305	4.47773	30.8157	1.93335	1.00905
0.80	1.01608	3.42709	4.44317	30.3123	2.13395	1.00718
1.00	1.01977	3.39873	4.41849	29.8152	2.33553	1.00570
1.20	1.02678	3.37657	4.40335	29.3220	2.53850	1.00451
1.40	1.03882	3.35964	4.39845	28.8297	2.74357	1.00356
1.60	1.05863	3.34728	4.40591	28.3347	2.95177	1.00279
1.80	1.09061	3.33927	4.42988	27.8324	3.16470	1.00218
2.00	1.14177	3.33582	4.47758	27.3158	3.38460	1.00168
2.20	1.22319	3.33778	4.56097	26.7747	3.61452	1.00128
2.40	1.35253	3.34690	4.69942	26.1930	3.85817	1.00094

TABLE H (Continued)

5900°K

LOG ρ/ρ_0	γ	ϵ/RT	H/RT	S/R	LOG P(ATM)	Z*
-7.00	2.03644	23.52276	25.55920	77.9283	-5.35668	2.03644
-6.80	2.02883	23.29553	25.32436	76.7651	-5.15830	2.02884
-6.60	2.02267	23.11251	25.13517	75.6492	-4.95962	2.02267
-6.40	2.01760	22.96371	24.98131	74.5702	-4.76071	2.01760
-6.20	2.01332	22.84048	24.85380	73.5188	-4.56164	2.01332
-6.00	2.00952	22.73487	24.74439	72.4869	-4.36246	2.00952
-5.80	2.00587	22.63896	24.64483	71.4664	-4.16325	2.00587
-5.60	2.00199	22.54397	24.54596	70.4486	-3.96409	2.00199
-5.40	1.99738	22.43919	24.43657	69.4229	-3.76509	1.99738
-5.20	1.99135	22.31051	24.30185	68.3757	-3.56640	1.99135
-5.00	1.98291	22.13869	24.12161	67.2886	-3.36824	1.98292
-4.80	1.97075	21.89756	23.86831	66.1370	-3.17092	1.97075
-4.60	1.95309	21.55293	23.50602	64.8886	-2.97483	1.95309
-4.40	1.92781	21.06385	22.99165	63.5056	-2.78048	1.92781
-4.20	1.89273	20.38832	22.28105	61.9499	-2.58846	1.89273
-4.00	1.84620	19.49475	21.34096	60.1950	-2.39927	1.84620
-3.80	1.78789	18.37627	20.16416	58.2393	-2.21321	1.78789
-3.60	1.71925	17.06066	18.77991	56.1157	-2.03021	1.71925
-3.40	1.64343	15.60829	17.25172	53.8889	-1.84980	1.64343
-3.20	1.56456	14.09788	15.66244	51.6398	-1.67116	1.56456
-3.00	1.48674	12.60779	14.09453	49.4472	-1.49331	1.48674
-2.80	1.41329	11.20163	12.61492	47.3735	-1.31532	1.41329
-2.60	1.34644	9.92190	11.26834	45.4586	-1.13636	1.34643
-2.40	1.28733	8.79049	10.07782	43.7211	-0.95586	1.28733
-2.20	1.23626	7.81284	9.04910	42.1626	-0.77344	1.23625
-2.00	1.19291	6.98314	8.17605	40.7739	-0.58894	1.19290
-1.80	1.15665	6.28884	7.44549	39.5388	-0.40235	1.15662
-1.60	1.12664	5.71424	6.84087	38.4387	-0.21376	1.12660
-1.40	1.10202	5.24280	6.34482	37.4543	-0.02336	1.10196
-1.20	1.08198	4.85862	5.94061	36.5674	0.16867	1.08189
-1.00	1.06577	4.54723	5.61300	35.7616	0.36211	1.06562
-0.80	1.05272	4.29590	5.34862	35.0226	0.55676	1.05248
-0.60	1.04228	4.09371	5.13600	34.3381	0.75244	1.04192
-0.40	1.03401	3.93149	4.96550	33.6979	0.94898	1.03344
-0.20	1.02756	3.80161	4.82916	33.0933	1.14626	1.02665
0.	1.02265	3.69779	4.72044	32.5175	1.34418	1.02122
0.20	1.01914	3.61494	4.63407	31.9666	1.54268	1.01689
0.40	1.01698	3.54890	4.56588	31.4297	1.74177	1.01343
0.60	1.01629	3.49636	4.51265	30.9091	1.94147	1.01067
0.80	1.01755	3.45466	4.47201	30.3992	2.14192	1.00847
1.00	1.02077	3.42171	4.44248	29.8971	2.34338	1.00671
1.20	1.02756	3.39589	4.42345	29.3998	2.54626	1.00531
1.40	1.03940	3.37604	4.41544	28.9042	2.75124	1.00419
1.60	1.05905	3.36135	4.42039	28.4067	2.95937	1.00329
1.80	1.09086	3.35147	4.44234	27.9024	3.17222	1.00257
2.00	1.14182	3.34655	4.48837	27.3843	3.39205	1.00198
2.20	1.22302	3.34736	4.57038	26.8420	3.62189	1.00151
2.40	1.35204	3.35561	4.70765	26.2596	3.86544	1.00111

TABLE H (Continued)
 6000°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.04680	23.50513	25.55193	78.3065	-5.34717	2.04680
-6.80	2.03714	23.22063	25.25777	77.0817	-5.14923	2.03715
-6.60	2.02937	22.99228	25.02165	75.9170	-4.95089	2.02937
-6.40	2.02305	22.80811	24.83116	74.7998	-4.75224	2.02306
-6.20	2.01784	22.65798	24.67583	73.7193	-4.55336	2.01785
-6.00	2.01341	22.53306	24.54647	72.6661	-4.35432	2.01341
-5.80	2.00943	22.42511	24.43454	71.6319	-4.15518	2.00943
-5.60	2.00554	22.32578	24.33132	70.6081	-3.95602	2.00555
-5.40	2.00133	22.22565	24.22698	69.5853	-3.75693	2.00134
-5.20	1.99624	22.11307	24.10931	68.5522	-3.55804	1.99624
-5.00	1.98948	21.97260	23.96208	67.4939	-3.35951	1.98948
-4.80	1.97998	21.78323	23.76321	66.3904	-3.16159	1.97998
-4.60	1.96627	21.51670	23.48297	65.2151	-2.96461	1.96627
-4.40	1.94645	21.13693	23.08338	63.9341	-2.76901	1.94645
-4.20	1.91834	20.60238	22.52072	62.5092	-2.57532	1.91834
-4.00	1.87984	19.87339	21.75323	60.9053	-2.38413	1.87984
-3.80	1.82963	18.92481	20.75444	59.1021	-2.19589	1.82963
-3.60	1.76787	17.75972	19.52759	57.1082	-2.01080	1.76787
-3.40	1.69661	16.41611	18.11272	54.9666	-1.82867	1.69661
-3.20	1.61938	14.96079	16.58018	52.7476	-1.64890	1.61938
-3.00	1.54041	13.47298	15.01339	50.5322	-1.47061	1.54041
-2.80	1.46362	12.02644	13.49006	48.3941	-1.29282	1.46362
-2.60	1.39201	10.67766	12.06967	46.3880	-1.11461	1.39200
-2.40	1.32745	9.46193	10.78938	44.5464	-0.93523	1.32744
-2.20	1.27081	8.39528	9.66609	42.8818	-0.75417	1.27080
-2.00	1.22216	7.47912	8.70128	41.3919	-0.57112	1.22214
-1.80	1.18107	6.70525	7.88632	40.0650	-0.38597	1.18104
-1.60	1.14682	6.06006	7.20688	38.8840	-0.19875	1.14678
-1.40	1.11856	5.52765	6.64621	37.8302	-0.00959	1.11850
-1.20	1.09545	5.09181	6.18726	36.8847	0.18134	1.09535
-1.00	1.07667	4.73729	5.81396	36.0302	0.37383	1.07652
-0.80	1.06151	4.45033	5.51184	35.2510	0.56768	1.06128
-0.60	1.04936	4.21897	5.26833	34.5337	0.76267	1.04899
-0.40	1.03969	4.03302	5.07270	33.8668	0.95865	1.03911
-0.20	1.03210	3.88392	4.91602	33.2408	1.15547	1.03119
0.	1.02628	3.76462	4.79090	32.6476	1.35302	1.02485
0.20	1.02203	3.66931	4.69135	32.0807	1.55122	1.01978
0.40	1.01929	3.59329	4.61258	31.5347	1.75005	1.01573
0.60	1.01812	3.53275	4.55087	31.0051	1.94955	1.01250
0.80	1.01881	3.48465	4.50346	30.4881	2.14984	1.00993
1.00	1.02192	3.44659	4.46851	29.9802	2.35117	1.00787
1.20	1.02845	3.41670	4.44514	29.4784	2.55393	1.00623
1.40	1.04008	3.39357	4.43366	28.9792	2.75882	1.00491
1.60	1.05953	3.37628	4.43582	28.4788	2.96687	1.00386
1.80	1.09117	3.36433	4.45549	27.9722	3.17964	1.00301
2.00	1.14193	3.35775	4.49968	27.4523	3.39939	1.00233
2.20	1.22289	3.35725	4.58014	26.9088	3.62914	1.00177
2.40	1.35158	3.36451	4.71609	26.3255	3.87259	1.00131

TABLE H (Continued)
6100°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.05953	23.55870	25.61822	78.7488	-5.33730	2.05953
-6.80	2.04734	23.20489	25.25223	77.4495	-5.13988	2.04735
-6.60	2.03755	22.92128	24.95883	76.2254	-4.94196	2.03756
-6.40	2.02966	22.69343	24.72310	75.0611	-4.74365	2.02967
-6.20	2.02324	22.50933	24.53257	73.9438	-4.54502	2.02324
-6.00	2.01791	22.35876	24.37667	72.8628	-4.34617	2.01791
-5.80	2.01333	22.23270	24.24604	71.8085	-4.14715	2.01334
-5.60	2.00917	22.12261	24.13178	70.7722	-3.94805	2.00917
-5.40	2.00502	22.01965	24.02467	69.7450	-3.74895	2.00502
-5.20	2.00042	21.91366	23.91408	68.7166	-3.54995	2.00042
-5.00	1.99474	21.79186	23.78660	67.6749	-3.35118	1.99474
-4.80	1.98711	21.63726	23.62437	66.6033	-3.15285	1.98711
-4.60	1.97632	21.42681	23.40312	65.4801	-2.95521	1.97632
-4.40	1.96075	21.12998	23.09073	64.2765	-2.75865	1.96075
-4.20	1.93838	20.70893	22.64731	62.9574	-2.56363	1.93838
-4.00	1.90700	20.12223	22.02922	61.4848	-2.37072	1.90700
-3.80	1.86467	19.33393	21.19861	59.8276	-2.18047	1.86467
-3.60	1.81051	18.32712	20.13762	57.9741	-1.99327	1.81051
-3.40	1.74527	17.11598	18.86125	55.9438	-1.80921	1.74527
-3.20	1.67157	15.74856	17.42013	53.7894	-1.62795	1.67157
-3.00	1.59328	14.29670	15.88998	51.5857	-1.44878	1.59328
-2.80	1.51462	12.83831	14.35292	49.4117	-1.27077	1.51462
-2.60	1.43925	11.44123	12.88048	47.3347	-1.09293	1.43925
-2.40	1.36982	10.15421	11.52402	45.4011	-0.91441	1.36981
-2.20	1.30783	9.00529	10.31312	43.6359	-0.73452	1.30782
-2.00	1.25385	8.00492	9.25877	42.0460	-0.55282	1.25383
-1.80	1.20777	7.15084	8.35861	40.6254	-0.36909	1.20774
-1.60	1.16903	6.43278	7.60181	39.3604	-0.18324	1.16899
-1.40	1.13686	5.83632	6.97318	38.2332	0.00464	1.13680
-1.20	1.11041	5.34553	6.45594	37.2252	0.19441	1.11031
-1.00	1.08883	4.94469	6.03352	36.3181	0.38589	1.08868
-0.80	1.07135	4.61920	5.69055	35.4954	0.57886	1.07111
-0.60	1.05728	4.35612	5.41340	34.7423	0.77312	1.05691
-0.40	1.04605	4.14424	5.19029	34.0462	0.96848	1.04547
-0.20	1.03720	3.97409	5.01129	33.3964	1.16479	1.03628
0.	1.03036	3.83777	4.86813	32.7841	1.36192	1.02892
0.20	1.02529	3.72875	4.75405	32.2018	1.55978	1.02303
0.40	1.02189	3.64172	4.66361	31.6435	1.75833	1.01833
0.60	1.02019	3.57235	4.59254	31.1040	1.95761	1.01457
0.80	1.02045	3.51718	4.53763	30.5790	2.15772	1.01157
1.00	1.02321	3.47346	4.49668	30.0648	2.35890	1.00917
1.20	1.02946	3.43905	4.46851	29.5579	2.56154	1.00726
1.40	1.04086	3.41231	4.45317	29.0547	2.76632	1.00573
1.60	1.06010	3.39212	4.45223	28.5511	2.97428	1.00450
1.80	1.09154	3.37786	4.46940	28.0420	3.18697	1.00352
2.00	1.14209	3.36944	4.51153	27.5202	3.40663	1.00272
2.20	1.22280	3.36749	4.59029	26.9751	3.63629	1.00206
2.40	1.35117	3.37361	4.72478	26.3909	3.87964	1.00153

TABLE H (Continued)

6200°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.07503	23.69161	25.76664	79.2658	-5.32698	2.07504
-6.80	2.05977	23.25495	25.31472	77.8772	-5.13019	2.05978
-6.60	2.04752	22.90490	24.95242	76.5815	-4.93278	2.04753
-6.40	2.03767	22.62413	24.66180	75.3601	-4.73487	2.03768
-6.20	2.02972	22.39830	24.42802	74.1978	-4.53657	2.02972
-6.00	2.02322	22.21541	24.23863	73.0818	-4.33797	2.02322
-5.80	2.01779	22.06520	24.08299	72.0011	-4.13913	2.01780
-5.60	2.01308	21.93845	23.95153	70.9462	-3.94015	2.01309
-5.40	2.00872	21.82629	23.83501	69.9080	-3.74109	2.00872
-5.20	2.00427	21.71932	23.72359	68.8770	-3.54205	2.00427
-5.00	1.99921	21.60649	23.60570	67.8423	-3.34315	1.99921
-4.80	1.99283	21.47372	23.46655	66.7903	-3.14454	1.99283
-4.60	1.98414	21.30218	23.28632	65.7029	-2.94644	1.98414
-4.40	1.97179	21.06656	23.03835	64.5562	-2.74915	1.97179
-4.20	1.95401	20.73400	22.68801	63.3195	-2.55308	1.95401
-4.00	1.92867	20.26522	22.19388	61.9563	-2.35875	1.92867
-3.80	1.89357	19.61996	21.51353	60.4305	-2.16673	1.89357
-3.60	1.84707	18.76775	20.61483	58.7166	-1.97752	1.84707
-3.40	1.78879	17.70164	19.49044	56.8128	-1.79145	1.78879
-3.20	1.72017	16.44767	18.16784	54.7505	-1.60844	1.72017
-3.00	1.64436	15.06304	16.70739	52.5910	-1.42801	1.64435
-2.80	1.56545	13.62264	15.18810	50.4115	-1.24937	1.56545
-2.60	1.48757	12.20119	13.68876	48.2871	-1.07153	1.48757
-2.40	1.41404	10.85943	12.27348	46.2775	-0.89355	1.41404
-2.20	1.34711	9.63803	10.98514	44.4206	-0.71461	1.34709
-2.00	1.28791	8.55799	9.84590	42.7341	-0.53412	1.28789
-1.80	1.23676	7.62460	8.86136	41.2197	-0.35172	1.23673
-1.60	1.19334	6.83236	8.02570	39.8682	-0.16724	1.19330
-1.40	1.15702	6.16935	7.32636	38.6642	0.01933	1.15695
-1.20	1.12697	5.62060	6.74757	37.5898	0.20790	1.12687
-1.00	1.10233	5.17035	6.27268	36.6264	0.39830	1.10218
-0.80	1.08230	4.80342	5.88572	35.7566	0.59034	1.08206
-0.60	1.06613	4.50599	5.57212	34.9647	0.78380	1.06575
-0.40	1.05317	4.26592	5.31909	34.2367	0.97849	1.05259
-0.20	1.04291	4.07278	5.11570	33.5610	1.17424	1.04200
0.	1.03494	3.91782	4.95276	32.9277	1.37090	1.03350
0.20	1.02895	3.79375	4.82270	32.3285	1.56839	1.02669
0.40	1.02481	3.69460	4.71941	31.7565	1.76663	1.02124
0.60	1.02252	3.61551	4.63802	31.2061	1.96566	1.01689
0.80	1.02230	3.55255	4.57484	30.6724	2.16557	1.01342
1.00	1.02467	3.50258	4.52726	30.1512	2.36658	1.01064
1.20	1.03061	3.46317	4.49378	29.6387	2.56909	1.00843
1.40	1.04174	3.43244	4.47418	29.1310	2.77375	1.00665
1.60	1.06076	3.40906	4.46981	28.6239	2.98161	1.00523
1.80	1.09198	3.39223	4.48421	28.1119	3.19470	1.00408
2.00	1.14231	3.38176	4.52407	27.5879	3.41378	1.00315
2.20	1.22277	3.37818	4.60095	27.0412	3.64333	1.00239
2.40	1.35080	3.38304	4.73384	26.4557	3.88658	1.00177

TABLE H (Continued)

6300°K

LOG p/p_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.09377	23.91288	26.00665	79.8677	-5.31613	2.09378
-6.80	2.07481	23.37831	25.45312	78.3735	-5.12008	2.07482
-6.60	2.05958	22.94934	25.00892	76.9927	-4.92328	2.05958
-6.40	2.04735	22.60533	24.65267	75.7031	-4.72587	2.04735
-6.20	2.03750	22.32919	24.36669	74.4865	-4.52796	2.03751
-6.00	2.02953	22.10675	24.13629	73.3276	-4.32966	2.02954
-5.80	2.02299	21.92610	23.94909	72.2139	-4.13107	2.02300
-5.60	2.01749	21.77689	23.79438	71.1344	-3.93225	2.01749
-5.40	2.01264	21.64976	23.66240	70.0793	-3.73329	2.01265
-5.20	2.00805	21.53542	23.54348	69.0392	-3.53428	2.00806
-5.00	2.00325	21.42381	23.42706	68.0039	-3.33532	2.00326
-4.80	1.99764	21.30283	23.30047	66.9616	-3.13654	1.99765
-4.60	1.99041	21.15684	23.14725	65.8972	-2.93812	1.99041
-4.40	1.98044	20.96495	22.94539	64.7909	-2.74030	1.98044
-4.20	1.96622	20.69934	22.66556	63.6164	-2.54343	1.96622
-4.00	1.94582	20.32489	22.27071	62.3408	-2.34796	1.94582
-3.80	1.91704	19.80156	21.71860	60.9277	-2.15443	1.91704
-3.60	1.87780	19.09171	20.96951	59.3436	-1.96341	1.87780
-3.40	1.82683	18.17237	19.99920	57.5708	-1.77536	1.82683
-3.20	1.76441	17.04813	18.81254	55.6192	-1.59046	1.76441
-3.00	1.69264	15.75695	17.44960	53.5317	-1.40849	1.69264
-2.80	1.61516	14.36361	15.97877	51.3766	-1.22884	1.61516
-2.60	1.53617	12.94376	14.47993	49.2311	-1.05062	1.53617
-2.40	1.45957	11.56701	13.02658	47.1647	-0.87283	1.45956
-2.20	1.38829	10.28612	11.67441	45.2284	-0.69458	1.38828
-2.00	1.32415	9.13360	10.45775	43.4516	-0.51512	1.32413
-1.80	1.26795	8.12381	9.39175	41.8452	-0.33396	1.26792
-1.60	1.21973	7.25743	8.47716	40.4063	-0.15080	1.21969
-1.40	1.17905	6.52623	7.70528	39.1231	0.03447	1.17898
-1.20	1.14517	5.91702	7.06219	37.9790	0.22181	1.14506
-1.00	1.11724	5.41456	6.53180	36.9558	0.41109	1.11709
-0.80	1.09444	5.00341	6.09784	36.0355	0.60213	1.09420
-0.60	1.07596	4.66906	5.74502	35.2016	0.79473	1.07558
-0.40	1.06110	4.39850	5.45960	34.4391	0.98870	1.06051
-0.20	1.04929	4.18040	5.22969	33.7352	1.18383	1.04837
0.	1.04005	4.00513	5.04518	33.0789	1.37999	1.03860
0.20	1.03304	3.86462	4.89767	32.4611	1.57706	1.03077
0.40	1.02808	3.75221	4.78029	31.8742	1.77497	1.02451
0.60	1.02512	3.66246	4.68758	31.3117	1.97372	1.01949
0.80	1.02437	3.59094	4.61531	30.7684	2.17340	1.01549
1.00	1.02632	3.53412	4.56043	30.2395	2.37427	1.01229
1.20	1.03190	3.48921	4.52111	29.7208	2.57658	1.00973
1.40	1.04274	3.45408	4.49682	29.2083	2.78112	1.00768
1.60	1.06150	3.42717	4.48867	28.6972	2.98886	1.00604
1.80	1.09249	3.40751	4.50001	28.1821	3.20136	1.00471
2.00	1.14200	3.39478	4.53738	27.6557	3.42083	1.00364
2.20	1.22278	3.38940	4.61218	27.1071	3.65029	1.00277
2.40	1.35047	3.39284	4.74331	26.5203	3.89343	1.00205

TABLE H (Continued)

6400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.11623	24.23202	26.34875	80.5658	-5.30466	2.11625
-6.80	2.09286	23.58301	25.67587	78.9478	-5.10948	2.09287
-6.60	2.07406	23.06129	25.13536	77.4668	-4.91340	2.07408
-6.40	2.05897	22.64256	24.70153	76.0965	-4.71657	2.05898
-6.20	2.04683	22.30661	24.35345	74.8153	-4.51914	2.04684
-6.00	2.03705	22.03669	24.07375	73.6051	-4.32122	2.03706
-5.80	2.02911	21.81885	23.84796	72.4510	-4.12291	2.02912
-5.60	2.02256	21.64126	23.66382	71.3406	-3.92432	2.02257
-5.40	2.01699	21.49356	23.51055	70.2628	-3.72552	2.01699
-5.20	2.01200	21.36615	23.37814	69.2077	-3.52659	2.01200
-5.00	2.00715	21.24928	23.25643	68.1654	-3.32764	2.00715
-4.80	2.00193	21.13208	23.13400	67.1250	-3.12877	2.00193
-4.60	1.99564	21.00119	22.99683	66.0736	-2.93014	1.99565
-4.40	1.98737	20.83917	22.82654	64.9943	-2.73194	1.98738
-4.20	1.97585	20.62276	22.59860	63.8652	-2.53447	1.97585
-4.00	1.95938	20.32154	22.28092	62.6576	-2.33810	1.95938
-3.80	1.93591	19.89838	21.83429	61.3372	-2.14334	1.93591
-3.60	1.90320	19.31354	21.21674	59.8680	-1.95074	1.90320
-3.40	1.85941	18.53390	20.39331	58.2215	-1.76085	1.85941
-3.20	1.80379	17.54610	19.34989	56.3898	-1.57403	1.80379
-3.00	1.73733	16.36746	18.10479	54.3954	-1.39034	1.73733
-2.80	1.66282	15.04711	16.70993	52.2919	-1.20938	1.66281
-2.60	1.58423	13.65515	15.23938	50.1522	-1.03040	1.58422
-2.40	1.50574	12.26550	13.77124	48.0512	-0.85247	1.50573
-2.20	1.43092	10.94106	12.37199	46.0507	-0.67460	1.43091
-2.00	1.36228	9.72599	11.08827	44.1928	-0.49596	1.36226
-1.80	1.30119	8.64486	9.94606	42.4986	-0.31588	1.30116
-1.60	1.24815	7.70596	8.95411	40.9730	-0.13395	1.24810
-1.40	1.20296	6.90597	8.10893	39.6090	0.05003	1.20289
-1.20	1.16504	6.23447	7.39951	38.3925	0.23612	1.16494
-1.00	1.13361	5.67738	6.81098	37.3063	0.42424	1.13345
-0.80	1.10781	5.21943	6.32723	36.3325	0.61424	1.10756
-0.60	1.08682	4.84568	5.93250	35.4536	0.80594	1.08643
-0.40	1.06988	4.54238	5.61226	34.6538	0.99912	1.06929
-0.20	1.05636	4.29733	5.35369	33.9193	1.19359	1.05543
0.	1.04573	4.10005	5.14578	33.2381	1.38920	1.04428
0.20	1.03759	3.94167	4.97927	32.6001	1.58581	1.03532
0.40	1.03172	3.81482	4.84654	31.9969	1.78334	1.02814
0.60	1.02803	3.71342	4.74145	31.4213	1.98178	1.02239
0.80	1.02668	3.63255	4.65923	30.8674	2.18122	1.01780
1.00	1.02815	3.56822	4.59637	30.3300	2.38184	1.01412
1.20	1.03335	3.51730	4.55064	29.8046	2.58403	1.01118
1.40	1.04386	3.47734	4.52120	29.2866	2.78842	1.00883
1.60	1.06235	3.44656	4.50891	28.7712	2.99605	1.00694
1.80	1.09309	3.42381	4.51690	28.2527	3.20844	1.00542
2.00	1.14295	3.40858	4.55153	27.7235	3.42781	1.00419
2.20	1.22286	3.40121	4.62407	27.1729	3.65716	1.00318
2.40	1.35020	3.40307	4.75327	26.5845	3.90018	1.00236

TABLE H (Continued)
6500°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	2.14293	24.65896	26.80189	81.3716	-5.29248	2.14295
-6.80	2.11438	23.87762	25.99199	79.6102	-5.09830	2.11439
-6.60	2.09136	23.24799	25.33936	78.0124	-4.90306	2.09138
-6.40	2.07285	22.74186	24.81471	76.5476	-4.70692	2.07286
-6.20	2.05798	22.33556	24.39354	75.1902	-4.51005	2.05799
-6.00	2.04601	22.00941	24.05542	73.9192	-4.31258	2.04602
-5.80	2.03635	21.74704	23.78339	72.7169	-4.11463	2.03636
-5.60	2.02847	21.53476	23.56323	71.5687	-3.91632	2.02848
-5.40	2.02192	21.36087	23.38280	70.4623	-3.71772	2.02193
-5.20	2.01628	21.21496	23.23124	69.3865	-3.51894	2.01629
-5.00	2.01113	21.08713	23.09826	68.3314	-3.32005	2.01113
-4.80	2.00597	20.96708	22.97304	67.2863	-3.12116	2.00597
-4.60	2.00023	20.84294	22.84316	66.2397	-2.92241	2.00023
-4.40	1.99311	20.69985	22.69297	65.1771	-2.72395	1.99312
-4.20	1.98357	20.51829	22.50186	64.0797	-2.52604	1.98358
-4.00	1.97016	20.27237	22.24253	62.9232	-2.32899	1.97016
-3.80	1.95102	19.92908	21.88009	61.6768	-2.13323	1.95102
-3.60	1.92396	19.44990	21.37386	60.3050	-1.93929	1.92396
-3.40	1.88684	18.79038	20.68372	58.7741	-1.74775	1.88684
-3.20	1.83816	17.94368	19.78184	57.0627	-1.55910	1.83816
-3.00	1.77784	16.88858	18.66642	55.1746	-1.37359	1.77784
-2.80	1.70763	15.66204	17.36967	53.1451	-1.19109	1.70763
-2.60	1.63091	14.32275	15.95366	51.0369	-1.01106	1.63091
-2.40	1.55186	12.94339	14.49525	48.9247	-0.83263	1.55185
-2.20	1.47449	11.59372	13.06821	46.8783	-0.65484	1.47448
-2.00	1.40196	10.32862	11.73058	44.9511	-0.47675	1.40194
-1.80	1.33630	9.18348	10.51978	43.1758	-0.29758	1.33627
-1.60	1.27850	8.17538	9.45387	41.5659	-0.11679	1.27845
-1.40	1.22872	7.30722	8.53594	40.1207	0.06597	1.22865
-1.20	1.18660	6.57237	7.75897	38.8300	0.25082	1.18650
-1.00	1.15146	5.95871	7.11017	37.6783	0.43776	1.15130
-0.80	1.12246	5.45166	6.57412	36.6478	0.62668	1.12221
-0.60	1.09875	5.03617	6.13493	35.7211	0.81741	1.09837
-0.40	1.07956	4.69792	5.77747	34.8814	1.00976	1.07896
-0.20	1.06417	4.42395	5.48812	34.1140	1.20352	1.06324
0.	1.05201	4.20294	5.25495	33.4058	1.39853	1.05056
0.20	1.04264	4.02523	5.06787	32.7459	1.59465	1.04035
0.40	1.03575	3.88271	4.91847	32.1249	1.79177	1.03217
0.60	1.03125	3.76867	4.79992	31.5350	1.98988	1.02561
0.80	1.02925	3.67761	4.70686	30.9696	2.18904	1.02036
1.00	1.03019	3.60510	4.63529	30.4230	2.38943	1.01616
1.20	1.03496	3.54761	4.58257	29.8902	2.59144	1.01280
1.40	1.04312	3.50238	4.54750	29.3662	2.79568	1.01011
1.60	1.06331	3.46737	4.53068	28.8461	3.00317	1.00795
1.80	1.09378	3.44122	4.53500	28.3239	3.21544	1.00621
2.00	1.14337	3.42327	4.56664	27.7917	3.43470	1.00480
2.20	1.22299	3.41370	4.63670	27.2387	3.66394	1.00365
2.40	1.34998	3.41383	4.76380	26.6486	3.90684	1.00270

TABLE H (Continued)

6600°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.17440	25.20294	27.37733	82.2961	-5.27952	2.17442
-6.80	2.13981	24.27037	26.41018	80.3704	-5.08648	2.13984
-6.60	2.11186	23.51657	25.62843	78.6379	-4.89219	2.11188
-6.40	2.08933	22.90927	24.99859	77.0634	-4.69685	2.08934
-6.20	2.07120	22.42109	24.49229	75.6174	-4.50063	2.07122
-6.00	2.05663	22.02910	24.08573	74.2750	-4.30370	2.05665
-5.80	2.04490	21.71421	23.75911	73.0158	-4.10618	2.04491
-5.60	2.03540	21.46049	23.49589	71.8227	-3.90821	2.03541
-5.40	2.02761	21.25455	23.28216	70.6812	-3.70987	2.02762
-5.20	2.02108	21.08479	23.10587	69.5793	-3.51127	2.02109
-5.00	2.01536	20.94072	22.95608	68.5058	-3.31250	2.01537
-4.80	2.01000	20.81207	22.82208	67.4503	-3.11366	2.01001
-4.60	2.00446	20.68783	22.69229	66.4017	-2.91486	2.00447
-4.40	1.99807	20.55492	22.55300	65.3471	-2.71624	1.99808
-4.20	1.98994	20.39673	22.38667	64.2705	-2.51802	1.98994
-4.00	1.97883	20.19131	22.17014	63.1511	-2.32045	1.97884
-3.80	1.96314	19.90999	21.87313	61.9619	-2.12391	1.96314
-3.60	1.94082	19.51740	21.45822	60.6701	-1.92887	1.94082
-3.40	1.90965	18.97467	20.88432	59.2404	-1.73590	1.90966
-3.20	1.86767	18.24765	20.11531	57.6432	-1.54556	1.86767
-3.00	1.81388	17.31924	19.13312	55.8666	-1.35825	1.81388
-2.80	1.74898	16.20094	17.94992	53.9275	-1.17407	1.74898
-2.60	1.67548	14.93580	16.61128	51.8736	-0.99272	1.67548
-2.40	1.59723	13.58060	15.18683	49.7737	-0.81349	1.59722
-2.20	1.51843	12.23462	13.75305	47.7014	-0.63546	1.51842
-2.00	1.44279	10.93432	12.37712	45.7194	-0.45765	1.44277
-1.80	1.37301	9.73472	11.10773	43.8717	-0.27918	1.37298
-1.60	1.31063	8.66260	9.97323	42.1820	-0.09938	1.31059
-1.40	1.25628	7.72824	8.98451	40.6569	0.08223	1.25621
-1.20	1.20985	6.92992	8.13977	39.2910	0.26588	1.20974
-1.00	1.17082	6.25835	7.42917	38.0715	0.45163	1.17065
-0.80	1.13842	5.70126	6.83868	36.9820	0.63945	1.13817
-0.60	1.11181	5.24088	6.35269	36.0046	0.82918	1.11142
-0.40	1.09018	4.86556	5.95574	35.1225	1.02064	1.08957
-0.20	1.07276	4.56073	5.63349	34.3197	1.21365	1.07182
0.	1.05894	4.31428	5.37321	33.5826	1.40801	1.05747
0.20	1.04820	4.11576	5.16396	32.8990	1.60359	1.04591
0.40	1.04021	3.95632	4.99654	32.2588	1.80027	1.03662
0.60	1.03482	3.82859	4.86341	31.6533	1.99801	1.02917
0.80	1.03210	3.72649	4.75859	31.0754	2.19687	1.02320
1.00	1.03246	3.64509	4.67755	30.5188	2.39702	1.01842
1.20	1.03675	3.58046	4.61721	29.9779	2.59882	1.01459
1.40	1.04652	3.52950	4.57603	29.4475	2.80289	1.01153
1.60	1.06438	3.48989	4.55427	28.9222	3.01024	1.00907
1.80	1.09456	3.46003	4.55459	28.3958	3.22238	1.00708
2.00	1.14387	3.43910	4.58297	27.8603	3.44152	1.00547
2.20	1.22319	3.42714	4.65033	27.3048	3.67064	1.00416
2.40	1.34981	3.42535	4.77516	26.7178	3.91342	1.00308

TABLE H (Continued)
6700°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.21114	25.87278	28.08393	83.3498	-5.26571	2.21118
-6.80	2.16964	24.76953	26.93917	81.2382	-5.07394	2.16967
-6.60	2.13596	23.87438	26.01033	79.3519	-4.88073	2.13598
-6.40	2.10874	23.15112	25.25986	77.6515	-4.68630	2.10876
-6.20	2.08681	22.56856	24.65537	76.1030	-4.49084	2.08683
-6.00	2.06916	22.10028	24.16944	74.6780	-4.29453	2.06918
-5.80	2.05497	21.72413	23.77910	73.3523	-4.09752	2.05499
-5.60	2.04352	21.42167	23.46519	72.1063	-3.89995	2.04354
-5.40	2.03422	21.17745	23.21167	70.9232	-3.70193	2.03423
-5.20	2.02655	20.97836	23.00491	69.7891	-3.50357	2.02656
-5.00	2.02003	20.81292	22.83295	68.6919	-3.30497	2.02004
-4.80	2.01421	20.67047	22.68468	67.6206	-3.10622	2.01422
-4.60	2.00859	20.54027	22.54886	66.5641	-2.90743	2.00860
-4.40	2.00257	20.41039	22.41296	65.5106	-2.70874	2.00258
-4.20	1.99537	20.26633	22.26170	64.4459	-2.51030	1.99538
-4.00	1.98596	20.08934	22.07531	63.3521	-2.31235	1.98597
-3.80	1.97294	19.85482	21.82776	62.2058	-2.11521	1.97295
-3.60	1.95449	19.53125	21.48576	60.9777	-1.91929	1.95450
-3.40	1.92846	19.08151	21.00997	59.6335	-1.72512	1.92846
-3.20	1.89263	18.46791	20.36055	58.1396	-1.53326	1.89264
-3.00	1.84540	17.66258	19.50798	56.4731	-1.34423	1.84540
-2.80	1.78645	16.66005	18.44650	54.6339	-1.15834	1.78645
-2.60	1.71729	15.48578	17.20307	52.6525	-0.97548	1.71729
-2.40	1.64114	14.19382	15.83496	50.5871	-0.79518	1.64113
-2.20	1.56212	12.85393	14.41605	48.5096	-0.61661	1.56210
-2.00	1.48431	11.53502	13.01933	46.4893	-0.43880	1.48429
-1.80	1.41100	10.29261	11.70361	44.5804	-0.26080	1.41097
-1.60	1.34437	9.16350	10.50787	42.8172	-0.08181	1.34432
-1.40	1.28553	8.16637	9.45189	41.2148	0.09876	1.28545
-1.20	1.23474	7.30550	8.54024	39.7739	0.28125	1.23463
-1.00	1.19169	6.57539	7.76707	38.4854	0.46584	1.19152
-0.80	1.15572	5.96475	7.12047	37.3345	0.65253	1.15546
-0.60	1.12603	5.45958	6.58561	36.3042	0.84122	1.12563
-0.40	1.10177	5.04523	6.14700	35.3770	1.03177	1.10116
-0.20	1.08217	4.70764	5.78981	34.5367	1.22397	1.08122
0.	1.06653	4.43405	5.50058	33.7685	1.41765	1.06506
0.20	1.05432	4.21324	5.26755	33.0595	1.61265	1.05201
0.40	1.04512	4.03561	5.08073	32.3986	1.80884	1.04151
0.60	1.03875	3.89312	4.93187	31.7764	2.00619	1.03308
0.80	1.03524	3.77910	4.81434	31.1849	2.20471	1.02632
1.00	1.03496	3.68810	4.72305	30.6174	2.40460	1.02091
1.20	1.03873	3.61573	4.65446	30.0677	2.60618	1.01657
1.40	1.04808	3.55856	4.60663	29.5303	2.81007	1.01309
1.60	1.06558	3.51394	4.57952	28.9993	3.01726	1.01030
1.80	1.09544	3.48006	4.57551	28.4684	3.22926	1.00805
2.00	1.14446	3.45588	4.60034	27.9294	3.44827	1.00622
2.20	1.22346	3.44131	4.66477	27.3710	3.67727	1.00473
2.40	1.34971	3.43743	4.78713	26.7769	3.91991	1.00350

TABLE H (Continued)

6800°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.25367	26.67607	28.92974	84.5422	-5.25100	2.25371
-6.80	2.20431	25.38273	27.58705	82.2277	-5.06062	2.20435
-6.60	2.16408	24.32852	26.49260	80.1630	-4.86862	2.16412
-6.40	2.13146	23.47374	25.60520	78.3194	-4.67521	2.13149
-6.20	2.10510	22.78342	24.88853	76.6538	-4.48062	2.10513
-6.00	2.08387	22.22754	24.31141	75.1336	-4.28502	2.08390
-5.80	2.06678	21.78068	23.84746	73.7311	-4.08860	2.06681
-5.60	2.05303	21.42155	23.47438	72.4234	-3.89150	2.05305
-5.40	2.04190	21.13239	23.17429	71.1915	-3.69386	2.04192
-5.20	2.03283	20.89824	22.93107	70.0192	-3.49579	2.03284
-5.00	2.02528	20.70628	22.73156	68.8929	-3.29741	2.02529
-4.80	2.01877	20.54507	22.56384	67.8005	-3.09881	2.01878
-4.60	2.01281	20.40371	22.41651	66.7308	-2.90009	2.01282
-4.40	2.00684	20.27082	22.27766	65.6724	-2.70138	2.00685
-4.20	2.00020	20.13334	22.13354	64.6122	-2.50282	2.00021
-4.00	1.99198	19.97501	21.96699	63.5346	-2.30461	1.99199
-3.80	1.98099	19.77467	21.75566	62.4193	-2.10701	1.98100
-3.60	1.96563	19.50478	21.47041	61.2405	-1.91039	1.96564
-3.40	1.94390	19.13126	21.07515	59.9664	-1.71522	1.94390
-3.20	1.91355	18.61618	20.52973	58.5628	-1.52205	1.91355
-3.00	1.87257	17.92527	19.79783	56.9996	-1.33145	1.87257
-2.80	1.81984	17.03963	18.85947	55.2633	-1.14386	1.81983
-2.60	1.75585	15.96737	17.72323	53.3673	-0.95940	1.75585
-2.40	1.68298	14.74753	16.43051	51.3554	-0.77781	1.68297
-2.20	1.60495	13.44252	15.04747	49.2932	-0.59843	1.60494
-2.00	1.52600	12.12263	13.64863	47.2524	-0.42034	1.52598
-1.80	1.44991	10.85083	12.30074	45.2955	-0.24255	1.44987
-1.60	1.37946	9.67360	11.05306	43.4671	-0.06418	1.37941
-1.40	1.31633	8.61864	9.93497	41.7917	0.11547	1.31626
-1.20	1.26121	7.69730	8.95850	40.2771	0.29689	1.26109
-1.00	1.21405	6.90879	8.12284	38.9190	0.48034	1.21388
-0.80	1.17437	6.24461	7.41897	37.7051	0.66591	1.17411
-0.60	1.14142	5.69209	6.83350	36.6196	0.85355	1.14102
-0.40	1.11437	5.23691	6.35128	35.6452	1.04314	1.11376
-0.20	1.09242	4.86479	5.95720	34.7652	1.23450	1.09147
0.	1.07483	4.56238	5.63722	33.9639	1.42745	1.07335
0.20	1.06101	4.31779	5.37880	33.2276	1.62183	1.05869
0.40	1.05050	4.12071	5.17121	32.5445	1.81751	1.04688
0.60	1.04306	3.96238	5.00544	31.9042	2.01442	1.03738
0.80	1.03869	3.83553	4.87422	31.2981	2.21259	1.02976
1.00	1.03770	3.73417	4.77187	30.7188	2.41218	1.02364
1.20	1.04091	3.65346	4.69437	30.1597	2.61352	1.01874
1.40	1.04960	3.58956	4.63936	29.6146	2.81721	1.01481
1.60	1.06691	3.53954	4.60645	29.0776	3.02424	1.01166
1.80	1.09643	3.50131	4.59774	28.5418	3.23609	1.00911
2.00	1.14513	3.47361	4.61874	27.9989	3.45496	1.00704
2.20	1.22381	3.45620	4.68001	27.4374	3.68382	1.00536
2.40	1.34967	3.45003	4.79970	26.8410	3.92634	1.00397

TABLE H (Continued)

6900°K

LOG p/p_0	γ	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.30243	27.61893	29.92135	85.8812	-5.23537	2.30248
-6.80	2.24430	26.11691	28.36121	83.3327	-5.04647	2.24435
-6.60	2.19665	24.88589	27.08254	81.0795	-4.85579	2.19670
-6.40	2.15786	23.88347	26.04133	79.0747	-4.66353	2.15790
-6.20	2.12642	23.07129	25.19771	77.2763	-4.46990	2.12645
-6.00	2.10103	22.41571	24.51674	75.6475	-4.27512	2.10106
-5.80	2.08058	21.88791	23.96849	74.1571	-4.07937	2.08061
-5.60	2.06412	21.46357	23.52768	72.7785	-3.88282	2.06414
-5.40	2.05084	21.12229	23.17313	71.4898	-3.68562	2.05086
-5.20	2.04007	20.84698	22.88705	70.2726	-3.48790	2.04010
-5.00	2.03124	20.62318	22.65442	69.1114	-3.28979	2.03126
-4.80	2.02380	20.43834	22.46714	67.9929	-3.09138	2.02382
-4.60	2.01727	20.28096	22.29823	66.9051	-2.89279	2.01728
-4.40	2.01110	20.13977	22.15088	65.8363	-2.69412	2.01112
-4.20	2.00469	20.00258	22.00727	64.7744	-2.49550	2.00470
-4.00	1.99725	19.85489	21.85214	63.7052	-2.29712	1.99726
-3.80	1.98775	19.67836	21.66611	62.6110	-2.09919	1.98775
-3.60	1.97479	19.44907	21.42386	61.4691	-1.90203	1.97480
-3.40	1.95658	19.13653	21.09311	60.2511	-1.70605	1.95659
-3.20	1.93096	18.70461	20.63558	58.9237	-1.51178	1.93097
-3.00	1.89572	18.11629	20.01201	57.4539	-1.31978	1.89572
-2.80	1.84916	17.34331	19.19247	55.8181	-1.13058	1.84916
-2.60	1.79086	16.37849	18.16936	54.0147	-0.94449	1.79086
-2.40	1.72223	15.24450	16.96673	52.0715	-0.76146	1.72222
-2.20	1.64656	13.99234	15.63870	50.0435	-0.58103	1.64634
-2.00	1.56736	12.68930	14.25666	48.0004	-0.40238	1.56733
-1.80	1.48933	11.40285	12.89218	46.0102	-0.22456	1.48930
-1.60	1.41563	10.18801	11.60364	44.1267	-0.04660	1.41558
-1.40	1.34852	9.08173	10.43024	42.3842	0.13231	1.34844
-1.20	1.28916	8.10319	9.39234	40.7987	0.31276	1.28904
-1.00	1.23787	7.25730	8.49517	39.3712	0.49512	1.23769
-0.80	1.19436	6.53919	7.73355	38.0933	0.67958	1.19409
-0.60	1.15800	5.93811	7.09511	36.9509	0.86616	1.15760
-0.40	1.12800	5.44054	6.56854	35.9272	1.05476	1.12738
-0.20	1.10355	5.03221	6.13576	35.0052	1.24524	1.10258
0.	1.08386	4.69939	5.78326	34.1689	1.43742	1.08237
0.20	1.06831	4.42957	5.49787	33.4036	1.63114	1.06598
0.40	1.05638	4.21174	5.26811	32.6967	1.82627	1.05274
0.60	1.04778	4.03648	5.08426	32.0371	2.02272	1.04208
0.80	1.04246	3.89588	4.93834	31.4153	2.22051	1.03351
1.00	1.04072	3.78339	4.82411	30.8233	2.41978	1.02664
1.20	1.04331	3.69370	4.73701	30.2540	2.62086	1.02113
1.40	1.05169	3.62257	4.67426	29.7007	2.82434	1.01670
1.60	1.06838	3.56672	4.63510	29.1571	3.03117	1.01314
1.80	1.09754	3.52378	4.62132	28.6160	3.24287	1.01027
2.00	1.14590	3.49228	4.63818	28.0688	3.46160	1.00795
2.20	1.22423	3.47179	4.69603	27.5040	3.69031	1.00604
2.40	1.34970	3.46315	4.81285	26.9049	3.93268	1.00448

TABLE H (Continued)
7000°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.35777	28.70474	31.06252	87.3721	-5.21880	2.35784
-6.80	2.28999	26.97739	29.26738	84.5750	-5.03147	2.29005
-6.60	2.23408	25.55244	27.78651	82.1088	-4.84220	2.23413
-6.40	2.18831	24.38621	26.57452	79.9246	-4.65119	2.18836
-6.20	2.15108	23.43756	25.58864	77.9771	-4.45865	2.15113
-6.00	2.12093	22.66955	24.79048	76.2256	-4.26478	2.12097
-5.80	2.09660	22.04994	24.14654	74.6351	-4.06979	2.09664
-5.60	2.07700	21.55119	23.62818	73.1755	-3.87387	2.07703
-5.40	2.06120	21.15007	23.21127	71.8217	-3.67718	2.06123
-5.20	2.04845	20.82710	22.87555	70.5525	-3.47988	2.04847
-5.00	2.03806	20.56591	22.60396	69.3505	-3.28209	2.03808
-4.80	2.02946	20.35247	22.38193	68.2005	-3.08392	2.02948
-4.60	2.02212	20.17441	22.19654	67.0896	-2.88549	2.02214
-4.40	2.01551	20.02013	22.03564	66.0056	-2.68692	2.01553
-4.20	2.00905	19.87778	21.88683	64.9366	-2.48831	2.00907
-4.00	2.00204	19.73408	21.73612	63.8692	-2.28983	2.00205
-3.80	1.99357	19.57282	21.56639	62.7879	-2.09167	1.99358
-3.60	1.98245	19.37316	21.35561	61.6726	-1.89410	1.98246
-3.40	1.96706	19.10823	21.07529	60.4980	-1.69748	1.96707
-3.20	1.94542	18.74475	20.69018	59.2334	-1.50229	1.94543
-3.00	1.91528	18.24567	20.16095	57.8450	-1.30907	1.91529
-2.80	1.87459	17.57714	19.45173	56.3033	-1.11840	1.87459
-2.60	1.82218	16.71994	18.54212	54.5945	-0.93071	1.82218
-2.40	1.75849	15.68079	17.43928	52.7304	-0.74616	1.75849
-2.20	1.68581	14.49663	16.18244	50.7529	-0.56449	1.68580
-2.00	1.60785	13.22755	14.83540	48.7253	-0.38506	1.60783
-1.80	1.52883	11.94191	13.47074	46.7175	-0.20694	1.52880
-1.60	1.45256	10.70137	12.15393	44.7906	-0.02917	1.45251
-1.40	1.38187	9.55174	10.93361	42.9886	0.14917	1.38180
-1.20	1.31847	8.52055	9.83907	41.3359	0.32877	1.31835
-1.00	1.26307	7.61929	8.88236	39.8405	0.51013	1.26290
-0.80	1.21567	6.84751	8.06318	38.4983	0.69351	1.21540
-0.60	1.17578	6.19712	7.37291	37.2975	0.87903	1.17537
-0.40	1.14269	5.65586	6.79855	36.2277	1.06663	1.14206
-0.20	1.11557	5.20983	6.32540	35.2569	1.25620	1.11460
0.	1.09365	4.84508	5.93873	34.3836	1.44758	1.09215
0.20	1.07623	4.54861	5.62484	33.5877	1.64060	1.07389
0.40	1.06277	4.30876	5.37153	32.8554	1.83514	1.05911
0.60	1.05292	4.11547	5.16839	32.1751	2.03109	1.04720
0.80	1.04653	3.96018	5.00677	31.5366	2.22847	1.03761
1.00	1.04401	3.83580	4.87981	30.9309	2.42740	1.02991
1.20	1.04593	3.73648	4.78241	30.3506	2.62820	1.02373
1.40	1.05376	3.65758	4.71134	29.7885	2.83144	1.01876
1.60	1.06999	3.59547	4.66546	29.2377	3.03808	1.01477
1.80	1.09876	3.54746	4.64623	28.6910	3.24960	1.01155
2.00	1.14677	3.51187	4.65864	28.1392	3.46817	1.00893
2.20	1.22474	3.48807	4.71281	27.5708	3.69674	1.00680
2.40	1.34979	3.47674	4.82654	26.9689	3.93897	1.00504

TABLE H (Continued)

7100°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	2.41993	29.93309	32.35301	89.0161	-5.20134	2.42001
-6.80	2.34172	27.96696	30.30868	85.9541	-5.01561	2.34180
-6.60	2.27670	26.33256	28.60926	83.2567	-4.82784	2.27677
-6.40	2.22317	24.98685	27.21001	80.8753	-4.63817	2.22323
-6.20	2.17942	23.88709	26.06650	78.7621	-4.44680	2.17948
-6.00	2.14366	22.99352	25.13738	76.8734	-4.25394	2.14392
-5.80	2.11509	22.27067	24.38576	75.1701	-4.05981	2.11514
-5.60	2.09188	21.68777	23.77965	73.6187	-3.86460	2.09193
-5.40	2.07318	21.21859	23.29177	72.1907	-3.66851	2.07322
-5.20	2.05809	20.84105	22.89915	70.8620	-3.47168	2.05813
-5.00	2.04587	20.53659	22.58246	69.6126	-3.27426	2.04590
-4.80	2.03567	20.28946	22.32533	68.4257	-3.07639	2.03590
-4.60	2.02750	20.08609	22.11359	67.2868	-2.87818	2.02752
-4.40	2.02022	19.91418	21.93440	66.1829	-2.67974	2.02024
-4.20	2.01346	19.76185	21.77531	65.1018	-2.48120	2.01348
-4.00	2.00658	19.61648	21.62306	64.0307	-2.28269	2.00660
-3.80	1.99877	19.46339	21.46216	62.9553	-2.08438	1.99879
-3.60	1.98899	19.28427	21.27325	61.8579	-1.88651	1.98900
-3.40	1.97582	19.05547	21.03129	60.7160	-1.68940	1.97583
-3.20	1.95746	18.74706	20.70452	59.5017	-1.49345	1.95747
-3.00	1.93174	18.32362	20.25536	58.1824	-1.29919	1.93175
-2.80	1.89644	17.74890	19.64534	56.7258	-1.10720	1.89644
-2.60	1.84985	16.99513	18.84498	55.1090	-0.91801	1.84985
-2.40	1.79154	16.05508	17.84662	53.3300	-0.73191	1.79154
-2.20	1.72290	14.95050	16.67340	51.4158	-0.54888	1.72289
-2.00	1.64701	13.73085	15.37786	49.4200	-0.36845	1.64699
-1.80	1.56797	12.46154	14.02952	47.4104	-0.18980	1.56794
-1.60	1.48990	11.20823	12.69813	45.4531	-0.01198	1.48985
-1.40	1.41616	10.02453	11.44069	43.6005	0.16597	1.41608
-1.20	1.34899	8.94649	10.29548	41.8860	0.34487	1.34887
-1.00	1.28959	7.99284	9.28242	40.3251	0.52531	1.28941
-0.80	1.23827	7.16840	8.40667	38.9189	0.70767	1.23800
-0.60	1.19476	6.46844	7.66320	37.6590	0.89214	1.19434
-0.40	1.15843	5.88251	7.04095	36.5315	1.07873	1.15779
-0.20	1.12852	5.39746	6.52597	35.5201	1.26737	1.12754
0.	1.10422	4.99937	6.10359	34.6081	1.45791	1.10270
0.20	1.08481	4.67487	5.75968	33.7797	1.65021	1.08245
0.40	1.06970	4.41177	5.48147	33.0207	1.84412	1.06603
0.60	1.05850	4.19934	5.25784	32.3184	2.03955	1.05276
0.80	1.05106	4.02843	5.07949	31.6619	2.23649	1.04207
1.00	1.04760	3.89134	4.93894	31.0417	2.43505	1.03347
1.20	1.04879	3.78175	4.83053	30.4496	2.63555	1.02656
1.40	1.05602	3.69453	4.75056	29.8780	2.83853	1.02101
1.60	1.07177	3.62570	4.69747	29.3196	3.04496	1.01654
1.80	1.10012	3.57226	4.67238	28.7667	3.25630	1.01294
2.00	1.14774	3.53228	4.68002	28.2100	3.47470	1.01001
2.20	1.22534	3.50490	4.73024	27.6376	3.70311	1.00762
2.40	1.34997	3.49069	4.84066	27.0327	3.94518	1.00565

TABLE H (Continued)

7200°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.48900	31.30103	33.79004	90.8121	-5.18304	2.48911
-6.80	2.39974	29.08715	31.48689	87.4731	-4.99890	2.39984
-6.60	2.32487	27.23014	29.55500	84.5287	-4.81267	2.32496
-6.40	2.26278	25.69033	27.95311	81.9330	-4.62442	2.26287
-6.20	2.21176	24.42499	26.63675	79.6378	-4.43433	2.21184
-6.00	2.17013	23.39247	25.56260	77.5966	-4.24258	2.17020
-5.80	2.13633	22.55449	24.69082	75.7673	-4.04940	2.13639
-5.60	2.10900	21.87714	23.98614	74.1127	-3.85499	2.10906
-5.40	2.08696	21.33115	23.41810	72.6007	-3.65955	2.08701
-5.20	2.06919	20.89163	22.96081	71.2043	-3.46327	2.06923
-5.00	2.05483	20.53763	22.59246	69.9009	-3.26629	2.05487
-4.80	2.04315	20.25147	22.29462	68.6712	-3.06877	2.04319
-4.60	2.03352	20.01805	22.05157	67.4992	-2.87082	2.03355
-4.40	2.02535	19.82411	21.84946	66.3707	-2.67257	2.02538
-4.20	2.01806	19.65732	21.67538	65.2729	-2.47413	2.01809
-4.00	2.01105	19.50531	21.51636	64.1931	-2.27564	2.01107
-3.80	2.00358	19.35440	21.35799	63.1178	-2.07726	2.00360
-3.60	1.99473	19.18820	21.18293	62.0309	-1.87918	1.99474
-3.40	1.98325	18.98586	20.96911	60.9124	-1.68169	1.98326
-3.20	1.96753	18.72069	20.68822	59.7373	-1.48515	1.96755
-3.00	1.94556	18.35990	20.30547	58.4753	-1.29002	1.94557
-2.80	1.91508	17.86715	19.78222	57.0932	-1.09688	1.91508
-2.60	1.87403	17.20946	19.08348	55.5626	-0.90629	1.87403
-2.40	1.82127	16.36840	18.18967	53.8702	-0.71869	1.82127
-2.20	1.75729	15.35106	17.10834	52.0284	-0.53422	1.75728
-2.00	1.68439	14.19391	15.87830	50.0785	-0.35262	1.68437
-1.80	1.60632	12.95576	14.56208	48.0826	-0.17324	1.60628
-1.60	1.52729	11.70314	13.23043	46.1084	0.00485	1.52723
-1.40	1.45109	10.49578	11.94687	44.2155	0.18763	1.45101
-1.20	1.38053	9.37789	10.75842	42.4458	0.36098	1.38041
-1.00	1.31730	8.37586	9.69316	40.8229	0.54062	1.31711
-0.80	1.26210	7.50056	8.76266	39.3540	0.72207	1.26182
-0.60	1.21490	6.75133	7.96623	38.0347	0.90547	1.21448
-0.40	1.17524	6.12014	7.29538	36.8534	1.09106	1.17459
-0.20	1.14239	5.59498	6.73738	35.7949	1.27875	1.14140
0.	1.11558	5.16228	6.27786	34.8425	1.46843	1.11405
0.20	1.09406	4.80847	5.90253	33.9801	1.65997	1.09168
0.40	1.07719	4.52090	5.59809	33.1927	1.85322	1.07349
0.60	1.06454	4.28827	5.35280	32.4671	2.04809	1.05877
0.80	1.05592	4.10079	5.15671	31.7915	2.24456	1.04689
1.00	1.05149	3.95020	5.00169	31.1558	2.44274	1.03733
1.20	1.05189	3.82965	4.88154	30.5612	2.64290	1.02964
1.40	1.05849	3.73357	4.79206	29.9694	2.84562	1.02345
1.60	1.07370	3.65756	4.73126	29.4029	3.05182	1.01847
1.80	1.10160	3.59831	4.69992	28.8433	3.26296	1.01445
2.00	1.14882	3.55361	4.70244	28.2814	3.48119	1.01118
2.20	1.22603	3.52242	4.74844	27.7047	3.70943	1.00851
2.40	1.35022	3.50509	4.85532	27.0965	3.95134	1.00632

TABLE H (Continued)
7300°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	2.56484	32.79918	35.36402	92.7522	-5.16402	2.56497
-6.80	2.46415	30.33479	32.79894	89.1304	-4.98141	2.46427
-6.60	2.37879	28.24580	30.62459	85.9269	-4.79672	2.37890
-6.40	2.30743	26.49931	28.80674	83.1018	-4.60995	2.30754
-6.20	2.24841	25.05485	27.30326	80.6088	-4.42120	2.24851
-6.00	2.20001	23.87024	26.07025	78.4003	-4.23065	2.20010
-5.80	2.16057	22.90506	25.06563	76.4313	-4.03851	2.16064
-5.60	2.12858	22.12262	24.25120	74.6615	-3.84499	2.12865
-5.40	2.10274	21.49061	23.59335	73.0554	-3.65029	2.10280
-5.20	2.08189	20.98132	23.06321	71.5827	-3.45462	2.08195
-5.00	2.06506	20.57119	22.63625	70.2179	-3.25814	2.06512
-4.80	2.05144	20.24038	22.29182	68.9393	-3.06102	2.05148
-4.60	2.04030	19.97205	22.01235	67.7289	-2.86338	2.04034
-4.40	2.03101	19.75168	21.78269	66.5712	-2.66536	2.03101
-4.20	2.02298	19.56619	21.58917	65.4522	-2.46708	2.02302
-4.00	2.01561	19.40305	21.41866	64.3592	-2.26867	2.01564
-3.80	2.00820	19.24917	21.25737	63.2788	-2.07027	2.00823
-3.60	1.99993	19.08949	21.08942	62.1961	-1.87206	1.99995
-3.40	1.98969	18.90545	20.89514	61.0933	-1.67429	1.98971
-3.20	1.97607	18.67333	20.64940	59.9479	-1.47728	1.97609
-3.00	1.95721	18.36335	20.32055	58.7320	-1.28144	1.95722
-2.80	1.93092	17.94055	19.87147	57.4136	-1.08731	1.93093
-2.60	1.89498	17.36957	19.26455	55.9613	-0.89547	1.89499
-2.40	1.84773	16.62387	18.47160	54.3533	-0.70644	1.84773
-2.20	1.78879	15.69749	17.48628	52.5892	-0.52052	1.78879
-2.00	1.71965	14.61296	16.33261	50.6964	-0.33764	1.71963
-1.80	1.64346	13.41945	15.06291	48.7284	-0.15732	1.64343
-1.60	1.56434	12.18101	13.74535	46.7513	0.02125	1.56429
-1.40	1.48639	10.96121	12.44759	44.8291	0.19905	1.48630
-1.20	1.41289	9.81151	11.22441	43.0121	0.37703	1.41277
-1.00	1.34608	8.76615	10.11223	41.3317	0.55599	1.34589
-0.80	1.28708	7.84260	9.12968	39.8021	0.73653	1.28679
-0.60	1.23618	7.04498	8.28116	38.4238	0.91900	1.23575
-0.40	1.19310	6.36832	7.56142	37.1881	1.10360	1.19244
-0.20	1.15721	5.80223	6.95944	36.0811	1.29033	1.15620
0.	1.12776	5.33381	6.46156	35.0868	1.47914	1.12621
0.20	1.10399	4.94948	6.05348	34.1888	1.66989	1.10160
0.40	1.08525	4.63628	5.72153	33.3717	1.86245	1.08153
0.60	1.07106	4.38236	5.45341	32.6214	2.05673	1.06526
0.80	1.06117	4.17738	5.23854	31.9256	2.25271	1.05211
1.00	1.05570	4.01248	5.06818	31.2735	2.45046	1.04150
1.20	1.05526	3.88030	4.93556	30.6554	2.65028	1.03297
1.40	1.06117	3.77477	4.83594	30.0629	2.85271	1.02610
1.60	1.07581	3.69112	4.76693	29.4876	3.05866	1.02056
1.80	1.10323	3.62568	4.72891	28.9210	3.26959	1.01609
2.00	1.15002	3.57595	4.72597	28.3533	3.48763	1.01245
2.20	1.22681	3.54066	4.76747	27.7722	3.71570	1.00948
2.40	1.35056	3.52000	4.87056	27.1603	3.95744	1.00704

TABLE H (Continued)
7400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	2.64705	34.41317	37.06023	94.8233	-5.14441	2.64721
-6.80	2.53487	31.70329	34.73815	90.9208	-4.96321	2.53501
-6.60	2.43860	29.37792	31.81652	87.4508	-4.78003	2.43874
-6.40	2.35735	27.41510	29.77244	84.3842	-4.59475	2.35747
-6.20	2.28964	25.77950	28.06914	81.6791	-4.40740	2.28975
-6.00	2.23378	24.43024	26.66402	79.2888	-4.21813	2.23388
-5.80	2.18806	23.32591	25.51397	77.1666	-4.02711	2.18815
-5.60	2.15086	22.42750	24.57836	75.2694	-3.83456	2.15094
-5.40	2.12072	21.69996	23.82068	73.5585	-3.64068	2.12080
-5.20	2.09638	21.11269	23.20907	72.0004	-3.44570	2.09645
-5.00	2.07673	20.63947	22.71620	70.5664	-3.24979	2.07680
-4.80	2.06086	20.25810	22.31897	69.2325	-3.05312	2.06092
-4.60	2.04796	19.94981	21.99776	67.9782	-2.85585	2.04801
-4.40	2.03733	19.69853	21.73586	66.7864	-2.65811	2.03737
-4.20	2.02834	19.49020	21.51854	65.6419	-2.46003	2.02838
-4.00	2.02038	19.31178	21.33216	64.5313	-2.26174	2.02042
-3.80	2.01279	19.15034	21.16312	63.4412	-2.06337	2.01282
-3.60	2.00479	18.99171	20.99651	62.3574	-1.86510	2.00482
-3.40	1.99543	18.81909	20.81451	61.2636	-1.66713	1.99545
-3.20	1.98341	18.61132	20.59473	60.1396	-1.46976	1.98343
-3.00	1.96708	18.34159	20.30867	58.9600	-1.27335	1.96710
-2.80	1.94438	17.97727	19.92165	57.6948	-1.07839	1.94439
-2.60	1.91304	17.48261	19.39565	56.3115	-0.88544	1.91305
-2.40	1.87104	16.82595	18.69699	54.7831	-0.69509	1.87104
-2.20	1.81733	15.99066	17.80799	53.0981	-0.50773	1.81733
-2.00	1.75252	14.93562	16.73814	51.2707	-0.32351	1.75250
-1.80	1.67904	13.84826	15.52731	49.3429	-0.14211	1.67901
-1.60	1.60071	12.63693	14.23764	47.3763	0.03714	1.60066
-1.40	1.52174	11.41635	12.93809	45.4368	0.21517	1.52165
-1.20	1.44585	10.24383	11.68968	43.5811	0.39295	1.44572
-1.00	1.37578	9.16113	10.53691	41.8490	0.57138	1.37559
-0.80	1.31313	8.19276	9.50589	40.2617	0.75114	1.31284
-0.60	1.25855	7.34829	8.60684	38.8254	0.93270	1.25811
-0.40	1.21199	6.62640	7.83839	37.5350	1.11633	1.21132
-0.20	1.17296	6.01887	7.19183	36.3786	1.30212	1.17194
0.	1.14076	5.51378	6.65454	35.3410	1.49003	1.13919
0.20	1.11464	5.09785	6.21249	34.4059	1.67997	1.11222
0.40	1.09391	4.75790	5.85182	33.5577	1.87181	1.09017
0.60	1.07807	4.48167	5.55974	32.7815	2.06548	1.07224
0.80	1.06682	4.25825	5.32507	32.0644	2.26092	1.05773
1.00	1.06024	4.07825	5.13849	31.3948	2.45824	1.04601
1.20	1.05890	3.93374	4.99264	30.7625	2.65769	1.03656
1.40	1.06407	3.81820	4.88227	30.1585	2.85980	1.02895
1.60	1.07810	3.72642	4.80452	29.5738	3.06549	1.02282
1.80	1.10500	3.65438	4.75939	28.9997	3.27620	1.01786
2.00	1.15134	3.59930	4.75064	28.4260	3.49404	1.01383
2.20	1.22770	3.55964	4.78733	27.8400	3.72192	1.01053
2.40	1.35098	3.53543	4.88641	27.2242	3.96348	1.00782

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TABLE H (Continued)

7500°K

LOG P/P ₀	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	2.73499	36.12284	38.85783	97.0062	-5.12438	2.73517
-6.80	2.61164	33.18162	35.79325	92.8345	-4.94443	2.61181
-6.60	2.50428	30.62179	33.12607	89.0972	-4.76266	2.50445
-6.40	2.41266	28.43695	30.84961	85.7808	-4.57884	2.41281
-6.20	2.33564	26.60048	28.93613	82.8515	-4.39293	2.33579
-6.00	2.27168	25.07520	27.34688	80.2658	-4.20499	2.27181
-5.80	2.21905	23.82013	26.03918	77.9771	-4.01517	2.21916
-5.60	2.17604	22.79490	24.97094	75.9402	-3.82367	2.17615
-5.40	2.14111	21.96207	24.10317	74.1136	-3.63070	2.14120
-5.20	2.11283	21.28831	23.40114	72.4606	-3.43647	2.11291
-5.00	2.08999	20.74471	22.83470	70.9494	-3.24119	2.09007
-4.80	2.07155	20.30659	22.37814	69.5532	-3.04504	2.07162
-4.60	2.05661	19.95304	22.00965	68.2492	-2.84819	2.05667
-4.40	2.04440	19.66628	21.71068	67.0183	-2.65077	2.04446
-4.20	2.03424	19.43096	21.46520	65.8439	-2.45294	2.03429
-4.00	2.02548	19.23328	21.25877	64.7115	-2.25481	2.02553
-3.80	2.01748	19.06011	21.07759	63.6074	-2.05653	2.01752
-3.60	2.00950	18.89776	20.90727	62.5178	-1.85825	2.00954
-3.40	2.00067	18.73069	20.73137	61.4273	-1.66016	2.00071
-3.20	1.98985	18.53986	20.52971	60.3175	-1.46252	1.98988
-3.00	1.97554	18.30119	20.27673	59.1656	-1.26565	1.97556
-2.80	1.95585	17.98472	19.94056	57.9436	-1.07000	1.95586
-2.60	1.92855	17.55579	19.48434	56.6199	-0.87611	1.92856
-2.40	1.89143	16.98007	18.87150	55.1642	-0.68455	1.89144
-2.20	1.84292	16.23297	18.07589	53.5568	-0.49583	1.84292
-2.00	1.78281	15.31103	17.09384	51.7996	-0.31023	1.78280
-1.80	1.71275	14.23890	15.95165	49.9222	-0.12764	1.71272
-1.60	1.63604	13.06652	14.70255	47.9786	0.05245	1.63599
-1.40	1.55682	11.85686	13.41369	46.0337	0.23090	1.55674
-1.20	1.47915	10.67116	12.15030	44.1491	0.40867	1.47902
-1.00	1.40622	9.55802	10.96423	42.3718	0.58671	1.40602
-0.80	1.34014	8.54910	9.88924	40.7308	0.76581	1.33984
-0.60	1.28195	7.65998	8.94193	39.2382	0.94653	1.28151
-0.40	1.23189	6.89361	8.12550	37.8933	1.12923	1.23122
-0.20	1.18964	6.24444	7.43408	36.6869	1.31408	1.18861
0.	1.15459	5.70199	6.85657	35.6049	1.50109	1.15300
0.20	1.12600	5.25351	6.37951	34.6315	1.69020	1.12356
0.40	1.10318	4.88579	5.98897	33.7508	1.88131	1.09941
0.60	1.08559	4.58625	5.67184	32.9474	2.07433	1.07973
0.80	1.07289	4.34350	5.41639	32.2078	2.26922	1.06376
1.00	1.06513	4.14759	5.21272	31.5198	2.46606	1.05085
1.20	1.06282	3.99007	5.05289	30.8726	2.66512	1.04043
1.40	1.06719	3.86394	4.93113	30.2563	2.86690	1.03203
1.60	1.08058	3.76354	4.84412	29.6617	3.07232	1.02525
1.80	1.10693	3.68451	4.79144	29.0796	3.28278	1.01977
2.00	1.15279	3.62372	4.77651	28.4994	3.50041	1.01531
2.20	1.22869	3.57942	4.80811	27.9082	3.72810	1.01167
2.40	1.35149	3.55142	4.90291	27.2883	3.96947	1.00867

TABLE H (Continued)
7600°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.82775	37.90346	40.73120	99.2771	-5.10415	2.82796
-6.80	2.69401	34.75518	37.44919	94.8579	-4.92519	2.69422
-6.60	2.57572	31.97019	34.54590	90.8601	-4.74469	2.57591
-6.40	2.47345	29.56258	32.03603	87.2905	-4.56228	2.47363
-6.20	2.38663	27.51847	29.90510	84.1278	-4.37780	2.38680
-6.00	2.31395	25.80735	28.12130	81.3349	-4.19123	2.31410
-5.80	2.25378	24.39072	26.64450	78.8669	-4.00268	2.25392
-5.60	2.20438	23.22799	25.43237	76.6780	-3.81230	2.20451
-5.40	2.16411	22.27998	24.44409	74.7245	-3.62031	2.16423
-5.20	2.13143	21.51094	23.64236	72.9666	-3.42692	2.13153
-5.00	2.10499	20.88933	22.99432	71.3697	-3.23234	2.10509
-4.80	2.08364	20.38793	22.47157	69.9040	-3.03676	2.08373
-4.60	2.06638	19.98356	22.04993	68.5442	-2.84038	2.06646
-4.40	2.05234	19.65653	21.70887	67.2689	-2.64334	2.05241
-4.20	2.04078	19.39000	21.43078	66.0600	-2.44579	2.04084
-4.00	2.03102	19.16915	21.20017	64.9016	-2.24787	2.03108
-3.80	2.02239	18.98034	21.00273	63.7795	-2.04972	2.02244
-3.60	2.01420	18.81000	20.82420	62.6797	-1.85148	2.01425
-3.40	2.00563	18.64341	20.64903	61.5875	-1.65334	2.00566
-3.20	1.99564	18.46317	20.45881	60.4859	-1.45551	1.99567
-3.00	1.98290	18.24761	20.23051	59.3541	-1.25829	1.98292
-2.80	1.96567	17.96947	19.93514	58.1665	-1.06208	1.96570
-2.60	1.94186	17.59603	19.53789	56.8931	-0.86737	1.94188
-2.40	1.90918	17.09222	19.00139	55.5021	-0.67474	1.90919
-2.20	1.86567	16.42808	18.29375	53.9683	-0.48475	1.86567
-2.00	1.81046	15.58981	17.40026	52.2832	-0.29780	1.81044
-1.80	1.74436	14.58934	16.33370	50.4638	-0.11395	1.74433
-1.60	1.67001	13.46618	15.13620	48.5542	0.06713	1.66996
-1.40	1.59134	12.27875	13.87008	46.6157	0.24618	1.59125
-1.20	1.51252	11.08990	12.60242	44.7123	0.42412	1.51239
-1.00	1.43720	9.95394	11.39114	42.8973	0.60193	1.43700
-0.80	1.36797	8.90954	10.27751	41.2072	0.78049	1.36767
-0.60	1.30630	7.97863	9.28493	39.6609	0.96046	1.30585
-0.40	1.25276	7.16902	8.42179	38.2623	1.14228	1.25207
-0.20	1.20724	6.47839	7.68564	37.0056	1.32621	1.20619
0.	1.16924	5.89811	7.06735	35.8783	1.51232	1.16764
0.20	1.13808	5.41627	6.55435	34.8655	1.70059	1.13561
0.40	1.11307	5.01985	6.13292	33.9509	1.89093	1.10926
0.60	1.09362	4.69606	5.78969	33.1192	2.08328	1.08773
0.80	1.07940	4.43309	5.51249	32.3561	2.27760	1.07022
1.00	1.07038	4.22048	5.29085	31.6487	2.47395	1.05604
1.20	1.06703	4.04927	5.11630	30.9856	2.67259	1.04459
1.40	1.07056	3.91196	4.98252	30.3564	2.87407	1.03534
1.60	1.08325	3.80246	4.88571	29.7513	3.07914	1.02787
1.80	1.10902	3.71602	4.82504	29.1607	3.28935	1.02183
2.00	1.15437	3.64920	4.80356	28.5737	3.50676	1.01691
2.20	1.22979	3.59996	4.82975	27.9769	3.73424	1.01289
2.40	1.35210	3.56793	4.92003	27.3526	3.97542	1.00958

TABLE H (Continued)

7700°K

LOG P/P ₀	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	2.92400	39.72144	42.64544	101.6024	-5.08393	2.92425
-6.80	2.78118	36.40139	39.18257	96.9690	-4.90568	2.78142
-6.60	2.65248	33.40938	36.06185	92.7265	-4.72626	2.65271
-6.40	2.53957	30.78462	33.32419	88.9068	-4.54515	2.53979
-6.20	2.44260	28.53036	30.97297	85.5059	-4.36206	2.44281
-6.00	2.36070	26.62625	28.98695	82.4963	-4.17687	2.36089
-5.80	2.29242	25.03871	27.33113	79.8379	-3.98962	2.29259
-5.60	2.23606	23.72848	25.96454	77.4854	-3.80043	2.23622
-5.40	2.18991	22.65565	24.84556	75.3937	-3.60948	2.19005
-5.20	2.15234	21.78253	23.93487	73.5210	-3.41700	2.15247
-5.00	2.12189	21.07515	23.19704	71.8298	-3.22319	2.12201
-4.80	2.09727	20.50375	22.60102	70.2870	-3.02826	2.09738
-4.60	2.07737	20.04282	22.12019	68.8650	-2.83240	2.07747
-4.40	2.06124	19.67061	21.73185	67.5400	-2.63578	2.06133
-4.20	2.04806	19.36859	21.41665	66.2919	-2.43857	2.04814
-4.00	2.03709	19.12070	21.15779	65.1034	-2.24090	2.03715
-3.80	2.02764	18.91252	20.94016	63.9593	-2.04292	2.02770
-3.60	2.01901	18.73029	20.74930	62.8454	-1.84477	2.01906
-3.40	2.01044	18.55974	20.57017	61.7470	-1.64662	2.01048
-3.20	2.00097	18.38467	20.38563	60.6482	-1.44867	2.00101
-3.00	1.98941	18.18538	20.17479	59.5300	-1.25119	1.98944
-2.80	1.97418	17.93718	19.91136	58.3690	-1.05452	1.97421
-2.60	1.95332	17.60969	19.56301	57.1369	-0.85914	1.95334
-2.40	1.92457	17.16848	19.09305	55.8024	-0.66557	1.92459
-2.20	1.88576	16.58050	18.46626	54.3366	-0.47442	1.88577
-2.00	1.83545	15.82389	17.65934	52.7227	-0.28617	1.83545
-1.80	1.77369	14.89883	16.67252	50.9662	-0.10103	1.77366
-1.60	1.70238	13.83326	15.53563	49.0999	0.08115	1.70233
-1.40	1.62499	12.67852	14.30351	47.1789	0.26094	1.62490
-1.20	1.54572	11.49665	13.04237	45.2669	0.43922	1.54559
-1.00	1.46853	10.34609	11.81462	43.4225	0.61697	1.46833
-0.80	1.39648	9.27199	10.66848	41.6889	0.79513	1.39617
-0.60	1.33151	8.30284	9.63436	40.0919	0.97444	1.33105
-0.40	1.27455	7.45179	8.72634	38.6411	1.15545	1.27384
-0.20	1.22573	6.72027	7.94600	37.3342	1.33849	1.22467
0.	1.18471	6.10195	7.28666	36.1611	1.52370	1.18309
0.20	1.15089	5.58612	6.73701	35.1078	1.71112	1.14840
0.40	1.12358	5.16018	6.28376	34.1583	1.90069	1.11974
0.60	1.10220	4.81126	5.91345	33.2971	2.09235	1.09626
0.80	1.08635	4.52722	5.61357	32.5094	2.28606	1.07712
1.00	1.07599	4.29714	5.37313	31.7816	2.48190	1.06160
1.20	1.07154	4.11155	5.18310	31.1018	2.68010	1.04904
1.40	1.07418	3.96248	5.03666	30.4590	2.88117	1.03889
1.60	1.08612	3.84339	4.92951	29.8429	3.08597	1.03068
1.80	1.11127	3.74913	4.86040	29.2432	3.29591	1.02404
2.00	1.15608	3.67592	4.83200	28.6489	3.51308	1.01863
2.20	1.23101	3.62146	4.85247	28.0462	3.74035	1.01420
2.40	1.35280	3.58515	4.93796	27.4172	3.98133	1.01056

TABLE H (Continued)

7800°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.02233	41.54272	44.56505	103.9480	-5.06396	3.02262
-6.80	2.87222	38.09642	40.96864	99.1448	-4.88609	2.87250
-6.60	2.73407	34.92457	37.65864	94.6825	-4.70750	2.73434
-6.40	2.61083	32.09516	34.70600	90.6230	-4.52753	2.61109
-6.20	2.50360	29.63297	32.13656	86.9837	-4.34574	2.50384
-6.00	2.41208	27.52166	29.94374	83.7511	-4.16191	2.41231
-5.80	2.33516	25.76550	28.10066	80.8924	-3.97599	2.33537
-5.60	2.27127	24.29865	26.56992	78.3652	-3.78804	2.27147
-5.40	2.21871	23.09164	25.31035	76.1248	-3.59821	2.21888
-5.20	2.17576	22.10560	24.28136	74.1272	-3.40670	2.17592
-5.00	2.14085	21.30446	23.44530	72.3324	-3.21372	2.14099
-4.80	2.11258	20.65609	22.76867	70.7049	-3.01949	2.11271
-4.60	2.08972	20.13258	22.22231	69.2139	-2.82422	2.08984
-4.40	2.07123	19.71004	21.78127	67.8335	-2.62808	2.07133
-4.20	2.05618	19.36809	21.42426	66.5413	-2.43125	2.05627
-4.00	2.04378	19.08922	21.13300	65.3184	-2.23387	2.04386
-3.80	2.03330	18.85802	20.89132	64.1485	-2.03610	2.03337
-3.60	2.02404	18.66024	20.68428	63.0165	-1.83809	2.02410
-3.40	2.01524	18.48171	20.49695	61.9080	-1.63998	2.01530
-3.20	2.00602	18.30706	20.31308	60.8073	-1.44197	2.00607
-3.00	1.99529	18.11817	20.11346	59.6970	-1.24430	1.99534
-2.80	1.98164	17.89258	19.87422	58.5556	-1.04728	1.98168
-2.60	1.96324	17.60240	19.56564	57.3568	-0.85133	1.96327
-2.40	1.93793	17.21467	19.15260	56.0705	-0.65697	1.93795
-2.20	1.90343	16.69513	18.59855	54.6661	-0.46477	1.90344
-2.00	1.85789	16.01614	17.87404	53.1205	-0.27529	1.85789
-1.80	1.80068	15.16770	16.96838	51.4292	-0.08887	1.80066
-1.60	1.73292	14.16595	15.89887	49.6135	0.09447	1.73287
-1.40	1.65752	13.05322	14.71074	47.7199	0.27515	1.65743
-1.20	1.57849	11.88822	13.46671	45.8097	0.45294	1.57836
-1.00	1.50000	10.73164	12.23165	43.9444	0.63179	1.49980
-0.80	1.42553	9.63427	11.05980	42.1736	0.80967	1.42522
-0.60	1.35749	8.63106	9.98855	40.5298	0.98843	1.35701
-0.40	1.29719	7.74089	9.03808	39.0287	1.16870	1.29648
-0.20	1.24509	6.96944	8.21452	37.6722	1.35089	1.24400
0.	1.20100	6.31317	7.51417	36.4530	1.53524	1.19935
0.20	1.16443	5.76291	6.92734	35.3583	1.72181	1.16191
0.40	1.13473	5.30673	6.44146	34.3730	1.91059	1.13086
0.60	1.11131	4.93188	6.04319	33.4812	2.10153	1.10533
0.80	1.09376	4.62596	5.71972	32.6678	2.29462	1.08448
1.00	1.08198	4.37766	5.45964	31.9187	2.48991	1.06753
1.20	1.07637	4.17703	5.25340	31.2214	2.68766	1.05379
1.40	1.07805	4.01562	5.09366	30.5642	2.88833	1.04268
1.60	1.08920	3.88643	4.97563	29.9364	3.09280	1.03369
1.80	1.11370	3.78392	4.89762	29.3273	3.30246	1.02640
2.00	1.15794	3.70398	4.86192	28.7252	3.51938	1.02047
2.20	1.23234	3.64401	4.87635	28.1163	3.74643	1.01561
2.40	1.35361	3.60317	4.95678	27.4822	3.98719	1.01161

TABLE H (Continued)
7900°K

LOG P/P ₀	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.12097	43.32713	46.44810	106.2730	-5.04448	3.12129
-6.80	2.96584	39.80927	42.77511	101.3538	-4.86663	2.96616
-6.60	2.81966	36.49422	39.31388	96.7070	-4.68858	2.81997
-6.40	2.68678	33.48063	36.16741	92.4260	-4.50954	2.68708
-6.20	2.56941	30.81866	33.38807	88.5543	-4.32894	2.56969
-6.00	2.46806	28.52002	30.98807	85.0964	-4.14642	2.46833
-5.80	2.38209	26.57013	28.95222	82.0302	-3.96182	2.38234
-5.60	2.31017	24.93898	27.74916	79.3192	-3.77513	2.31040
-5.40	2.25066	23.58923	25.83989	76.9197	-3.58646	2.25087
-5.20	2.20183	22.48173	24.68356	74.7873	-3.39599	2.20202
-5.00	2.16201	21.57893	23.74094	72.8800	-3.20391	2.16219
-4.80	2.12970	20.84653	22.97622	71.1596	-3.01046	2.12986
-4.60	2.10354	20.25430	22.35784	69.5929	-2.81582	2.10369
-4.40	2.08238	19.77613	21.85851	68.1510	-2.62021	2.08251
-4.20	2.06522	19.38969	21.45491	66.8097	-2.42381	2.06533
-4.00	2.05118	19.07586	21.12703	65.5482	-2.22677	2.05128
-3.80	2.03947	18.81802	20.85750	64.3485	-2.02926	2.03956
-3.60	2.02937	18.60170	20.63057	63.1948	-1.83141	2.02946
-3.40	2.02014	18.41103	20.43117	62.0723	-1.63339	2.02021
-3.20	2.01093	18.23262	20.24355	60.9656	-1.43538	2.01100
-3.00	2.00074	18.04901	20.04975	59.8582	-1.23758	2.00080
-2.80	1.98829	17.83968	19.82796	58.7303	-1.04029	1.98833
-2.60	1.97190	17.57907	19.55097	57.5576	-0.84389	1.97194
-2.40	1.94954	17.23625	19.18579	56.3116	-0.64884	1.94957
-2.20	1.91891	16.77703	18.69594	54.9613	-0.45572	1.91893
-2.00	1.87791	16.17013	18.04804	53.4797	-0.26510	1.87791
-1.80	1.82531	15.39728	17.22259	51.8537	-0.07744	1.82529
-1.60	1.76149	14.46338	16.22487	50.0935	0.10711	1.76145
-1.40	1.68869	13.40046	15.08915	48.2359	0.28878	1.68861
-1.20	1.61058	12.26165	13.87224	46.3372	0.46821	1.61045
-1.00	1.53139	11.10780	12.63920	44.4600	0.64631	1.53119
-0.80	1.45495	9.99408	11.44902	42.6588	0.82407	1.45463
-0.60	1.38411	8.96160	10.34570	40.9728	1.00240	1.38363
-0.40	1.32062	8.03517	9.35579	39.4239	1.18201	1.31989
-0.20	1.26526	7.22520	8.49046	38.0189	1.36341	1.26416
0.	1.21808	6.53137	7.74945	36.7535	1.54690	1.21641
0.20	1.17869	5.94645	7.12514	35.6170	1.73263	1.17614
0.40	1.14652	5.45947	6.60599	34.5949	1.92061	1.14261
0.60	1.12097	5.05795	6.17892	33.6715	2.11082	1.11494
0.80	1.10163	4.72940	5.83103	32.8314	2.30326	1.09229
1.00	1.08836	4.46215	5.55051	32.0601	2.49800	1.07384
1.20	1.08152	4.24582	5.32734	31.3444	2.69526	1.05886
1.40	1.08218	4.07148	5.15366	30.6722	2.89553	1.04673
1.60	1.09250	3.93170	5.02421	30.0321	3.09965	1.03691
1.80	1.11630	3.82053	4.93683	29.4130	3.30901	1.02893
2.00	1.15995	3.73350	4.89344	28.8027	3.52566	1.02244
2.20	1.23380	3.66771	4.90151	28.1872	3.75247	1.01712
2.40	1.35452	3.62209	4.97661	27.5478	3.99301	1.01273

TABLE H (Continued)

8000°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.21818	45.03707	48.25525	108.5389	-5.02570	3.21853
-6.80	3.06068	41.50879	44.56948	103.5649	-4.84749	3.06104
-6.60	2.90834	38.09565	41.00398	98.7776	-4.66967	2.90869
-6.40	2.76688	34.92632	37.69320	94.3019	-4.49132	2.76723
-6.20	2.63980	32.07906	34.71885	90.2103	-4.31174	2.64014
-6.00	2.52860	29.58742	32.11602	86.5292	-4.13043	2.52892
-5.80	2.43328	27.45159	29.88487	83.2513	-3.94712	2.43358
-5.60	2.35289	25.65020	28.00309	80.3484	-3.76171	2.35316
-5.40	2.28594	24.15001	26.43595	77.7806	-3.57425	2.28619
-5.20	2.23073	22.91294	25.14367	75.5039	-3.38486	2.23096
-5.00	2.18555	21.90062	24.08617	73.4751	-3.19375	2.18576
-4.80	2.14878	21.07701	23.22578	71.6537	-3.00112	2.14897
-4.60	2.11896	20.40972	22.52863	70.0040	-2.80719	2.11914
-4.40	2.09484	19.87043	21.96526	68.4947	-2.61216	2.09499
-4.20	2.07529	19.43476	21.51005	67.0989	-2.41623	2.07543
-4.00	2.05937	19.08186	21.14124	65.7941	-2.21958	2.05950
-3.80	2.04624	18.79373	20.83997	64.5607	-2.02235	2.04635
-3.60	2.03511	18.55444	20.58956	63.3818	-1.82472	2.03521
-3.40	2.02525	18.34920	20.37445	62.2416	-1.62683	2.02533
-3.20	2.01583	18.16324	20.17906	61.1252	-1.42886	2.01590
-3.00	2.00591	17.98043	19.98635	60.0163	-1.23100	2.00598
-2.80	1.99433	17.78180	19.77613	58.8965	-1.03351	1.99438
-2.60	1.97955	17.54394	19.52350	57.7435	-0.83674	1.97960
-2.40	1.95968	17.23810	19.19778	56.5303	-0.64113	1.95972
-2.20	1.93247	16.83112	18.76359	55.2268	-0.44720	1.93250
-2.00	1.89567	16.28982	18.18550	53.8036	-0.25555	1.89568
-1.80	1.84762	15.58967	17.43729	52.2411	-0.06670	1.84761
-1.60	1.78800	14.72548	16.51348	50.5394	0.11906	1.78796
-1.40	1.71831	13.71850	15.43681	48.7247	0.30179	1.71823
-1.20	1.64176	12.61434	14.25610	46.8467	0.48200	1.64163
-1.00	1.56248	11.47184	13.03432	44.9663	0.66051	1.56227
-0.80	1.48455	10.34905	11.83360	43.1421	0.83829	1.48423
-0.60	1.41125	9.29262	10.70387	41.4191	1.01629	1.41076
-0.40	1.34476	8.33335	9.67811	39.8255	1.19533	1.34402
-0.20	1.28621	7.48670	8.77291	38.3734	1.37600	1.28509
0.	1.23592	6.75603	7.99195	37.0623	1.55868	1.23423
0.2	1.19367	6.13645	7.33012	35.8836	1.74357	1.19109
0.40	1.15895	5.61825	6.77719	34.8239	1.93075	1.15499
0.60	1.13119	5.18944	6.32063	33.8680	2.12023	1.12511
0.80	1.10998	4.83755	5.94753	33.0004	2.31200	1.10058
1.00	1.09514	4.55067	5.64581	32.2060	2.50616	1.08054
1.20	1.08700	4.31800	5.40500	31.4711	2.70292	1.06426
1.40	1.08659	4.13017	5.21676	30.7831	2.90276	1.05105
1.60	1.09603	3.97931	5.07534	30.1301	3.10651	1.04033
1.80	1.11909	3.85905	4.97814	29.5004	3.31556	1.03163
2.00	1.16211	3.76457	4.92667	28.8816	3.53194	1.02454
2.20	1.23539	3.69266	4.92805	28.2591	3.75849	1.01873
2.40	1.35554	3.64201	4.99755	27.6141	3.99880	1.01394

TABLE H (Continued)
8100°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.31209	46.63385	49.94594	110.7051	-5.00781	3.31247
-6.80	3.15511	43.15923	46.31434	105.7412	-4.82890	3.15551
-6.60	2.99885	39.70021	42.69906	100.8653	-4.65096	2.99926
-6.40	2.85029	36.41161	39.26190	96.2302	-4.47303	2.85069
-6.20	2.71428	33.40061	36.11489	91.9384	-4.29426	2.71467
-6.00	2.59346	30.72576	33.31922	88.0420	-4.11403	2.59384
-5.80	2.48867	28.40562	30.89429	84.5523	-3.93195	2.48902
-5.60	2.39947	26.43058	28.83004	81.4523	-3.74780	2.39979
-5.40	2.32464	24.77377	27.09841	78.7081	-3.56156	2.32494
-5.20	2.26259	23.39980	25.66239	76.2783	-3.37331	2.26286
-5.00	2.21158	22.27051	24.48209	74.1192	-3.18321	2.21183
-4.80	2.16993	21.34865	23.51859	72.1888	-2.99147	2.17016
-4.60	2.13609	20.59995	22.73605	70.4489	-2.79829	2.13630
-4.40	2.10868	19.99397	22.10265	68.8658	-2.60390	2.10886
-4.20	2.08648	19.50426	21.59074	67.4103	-2.40850	2.08665
-4.00	2.06845	19.10812	21.17656	66.0576	-2.21227	2.06860
-3.80	2.05367	18.78602	20.83969	64.7864	-2.01538	2.05381
-3.60	2.04133	18.52091	20.56223	63.5785	-1.81800	2.04145
-3.40	2.03064	18.29732	20.32796	62.4173	-1.62028	2.03075
-3.20	2.02081	18.10035	20.12116	61.2875	-1.42239	2.02090
-3.00	2.01093	17.91439	19.92532	60.1732	-1.22452	2.01101
-2.80	1.99992	17.72162	19.72155	59.0568	-1.02690	2.00000
-2.60	1.98640	17.50052	19.48692	57.9177	-0.82985	1.98646
-2.40	1.96860	17.22451	19.19311	56.7308	-0.63376	1.96864
-2.20	1.94437	16.86203	18.80639	55.4671	-0.43914	1.94440
-2.00	1.91140	16.37935	18.29076	54.0962	-0.24656	1.91142
-1.80	1.86772	15.74761	17.61534	52.5938	-0.05660	1.86772
-1.60	1.81241	14.95309	16.76550	50.9515	0.13034	1.81237
-1.40	1.74624	14.00640	15.75264	49.1850	0.31419	1.74616
-1.20	1.67183	12.94422	14.61605	47.3356	0.49528	1.67170
-1.00	1.59307	11.82136	13.41443	45.4608	0.67432	1.59286
-0.80	1.51417	10.69700	12.21117	43.6211	0.85226	1.51384
-0.60	1.43878	9.62241	11.06119	41.8667	1.03008	1.43828
-0.40	1.36950	8.63420	10.00370	40.2322	1.20865	1.36875
-0.20	1.30788	7.75315	9.06103	38.7349	1.38865	1.30674
0.	1.25451	6.98671	8.24122	37.3788	1.57056	1.25279
0.20	1.20935	6.33273	7.54208	36.1578	1.75464	1.20674
0.40	1.17201	5.78305	6.95506	35.0601	1.94102	1.16802
0.60	1.14197	5.32644	6.46841	34.0709	2.12974	1.13584
0.80	1.11880	4.95059	6.06939	33.1748	2.32084	1.10934
1.00	1.10232	4.64341	5.74573	32.3564	2.51439	1.08765
1.20	1.09282	4.39378	5.48660	31.6016	2.71063	1.06998
1.40	1.09128	4.19191	5.28319	30.8972	2.91007	1.05563
1.60	1.09979	4.02947	5.12926	30.2307	3.11339	1.04398
1.80	1.12207	3.89971	5.02178	29.5899	3.32211	1.03451
2.00	1.16442	3.79742	4.96184	28.9621	3.53820	1.02678
2.20	1.23711	3.71909	4.95620	28.3322	3.76449	1.02045
2.40	1.35668	3.66315	5.01982	27.6812	4.00456	1.01522

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TABLE H (Continued)

8200°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.40112	48.08695	51.48807	112.7395	-4.99096	3.40154
-6.80	3.24758	44.72859	47.97618	107.8499	-4.81103	3.24803
-6.60	3.08995	41.28035	44.37030	102.9424	-4.63264	3.09040
-6.40	2.93614	37.91578	40.85192	98.1905	-4.45481	2.93660
-6.20	2.79232	34.76945	37.56178	93.7255	-4.27662	2.79277
-6.00	2.66239	31.92683	34.58923	89.6274	-4.09731	2.66282
-5.80	2.54819	29.42811	31.97630	85.9295	-3.91635	2.54860
-5.60	2.44995	27.27864	29.72859	82.6297	-3.73343	2.45033
-5.40	2.36687	25.46072	27.82759	79.7032	-3.54841	2.36722
-5.20	2.29753	23.94345	26.24098	77.1124	-3.36133	2.29786
-5.00	2.24025	22.69015	24.93040	74.8147	-3.17229	2.24055
-4.80	2.19331	21.66312	23.85643	72.7671	-2.98149	2.19358
-4.60	2.15506	20.82662	22.98168	70.9297	-2.78913	2.15531
-4.40	2.12403	20.14823	22.27226	69.2663	-2.59543	2.12425
-4.20	2.09888	19.59950	21.69838	67.7454	-2.40060	2.09908
-4.00	2.07849	19.15579	21.23428	66.3400	-2.20484	2.07867
-3.80	2.06186	18.79596	20.85782	65.0269	-2.00833	2.06202
-3.60	2.04810	18.50165	20.54975	63.7863	-1.81123	2.04824
-3.40	2.03640	18.25654	20.29294	62.6008	-1.61372	2.03653
-3.20	2.02596	18.04532	20.07129	61.4542	-1.41595	2.02608
-3.00	2.01591	17.85260	19.86851	60.3308	-1.21811	2.01601
-2.80	2.00523	17.66143	19.66666	59.2137	-1.02042	2.00532
-2.60	1.99264	17.45182	19.44446	58.0835	-0.82316	1.99271
-2.40	1.97651	17.19924	19.17575	56.9168	-0.62669	1.97657
-2.20	1.95484	16.87400	18.82883	55.6861	-0.43148	1.95488
-2.00	1.92531	16.44284	18.36815	54.3611	-0.23809	1.92534
-1.80	1.88575	15.87423	17.75997	52.9146	-0.04710	1.88575
-1.60	1.83474	15.14764	16.98237	51.3308	0.14099	1.83471
-1.40	1.77237	14.26376	16.03613	49.6160	0.32597	1.77230
-1.20	1.70060	13.24961	14.95021	47.8018	0.50802	1.70047
-1.00	1.62295	12.15405	13.77700	45.9409	0.68772	1.62274
-0.80	1.54362	11.03559	12.57921	44.0933	0.86595	1.54329
-0.60	1.46655	9.94896	11.41551	42.3137	1.04371	1.46604
-0.40	1.39477	8.93616	10.33093	40.6423	1.22192	1.39400
-0.20	1.33021	8.02341	9.35362	39.1024	1.40133	1.32905
0.	1.27380	7.22261	8.49641	37.7023	1.58251	1.27205
0.20	1.22572	6.53471	7.76043	36.4392	1.76580	1.22307
0.40	1.18571	5.95348	7.13919	35.3030	1.95139	1.18167
0.60	1.15332	5.46866	6.62198	34.2799	2.13936	1.14713
0.80	1.12812	5.06829	6.19641	33.3545	2.32977	1.11858
1.00	1.10992	4.74022	5.85014	32.5114	2.52270	1.09516
1.20	1.09898	4.47304	5.57202	31.7359	2.71840	1.07604
1.40	1.09625	4.25657	5.35282	31.0143	2.91732	1.06049
1.60	1.10378	4.08208	5.18586	30.3336	3.12030	1.04785
1.80	1.12525	3.94239	5.06764	29.6813	3.32866	1.03756
2.00	1.16691	3.83193	4.99884	29.0440	3.54445	1.02916
2.20	1.23897	3.74687	4.98584	28.4064	3.77048	1.02228
2.40	1.35793	3.68538	5.04330	27.7492	4.01029	1.01659

TABLE H (Continued)

8300°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.48387	49.37079	52.85466	114.6142	-4.97526	3.48432
-6.80	3.33651	46.18535	49.52186	109.8578	-4.79403	3.33700
-6.60	3.18019	42.80575	45.98594	104.9775	-4.61487	3.18069
-6.40	3.02331	39.41394	42.43725	100.1573	-4.43684	3.02382
-6.20	2.87315	36.16736	39.04051	95.5533	-4.25896	2.87366
-6.00	2.73493	33.17850	35.91343	91.2736	-4.08038	2.73542
-5.80	2.61161	30.51172	33.12333	87.3763	-3.90041	2.61208
-5.60	2.50427	28.19055	30.69482	83.8778	-3.71864	2.50472
-5.40	2.41266	26.20925	28.62191	80.7648	-3.53483	2.41307
-5.20	2.33565	24.54366	26.87931	78.0064	-3.34891	2.33603
-5.00	2.27167	23.16007	25.43174	75.5624	-3.16098	2.27203
-4.80	2.21902	22.02133	24.24035	73.3901	-2.97116	2.21934
-4.60	2.17598	21.09074	23.26672	71.4478	-2.77967	2.17627
-4.40	2.14098	20.33426	22.47524	69.6976	-2.58671	2.14124
-4.20	2.11259	19.72146	21.83405	68.1056	-2.39251	2.11283
-4.00	2.08958	19.22581	21.31539	66.6426	-2.19726	2.08979
-3.80	2.07087	18.82442	20.89529	65.2834	-2.00117	2.07106
-3.60	2.05550	18.49753	20.55302	64.0064	-1.80441	2.05567
-3.40	2.04261	18.22775	20.27036	62.7931	-1.60714	2.04276
-3.20	2.03138	17.99922	20.03060	61.6266	-1.40953	2.03152
-3.00	2.02095	17.79645	19.81741	60.4907	-1.21177	2.02107
-2.80	2.01036	17.60308	19.61345	59.3691	-1.01405	2.01047
-2.60	1.99842	17.40034	19.39876	58.2432	-0.81663	1.99851
-2.40	1.98363	17.16549	19.14913	57.0913	-0.61986	1.98371
-2.20	1.96411	16.87084	18.83495	55.8875	-0.42416	1.96416
-2.00	1.93761	16.48425	18.42186	54.6021	-0.23006	1.93765
-1.80	1.90186	15.97289	17.87475	53.2063	-0.03814	1.90187
-1.60	1.85505	15.31114	17.16619	51.6791	0.15103	1.85503
-1.40	1.79666	14.49095	16.28761	50.0176	0.33714	1.79660
-1.20	1.72795	13.52942	15.25737	48.2441	0.52021	1.72783
-1.00	1.65195	12.46803	14.11998	46.4043	0.70068	1.65174
-0.80	1.57273	11.36277	12.93550	44.5565	0.87933	1.57240
-0.60	1.49442	10.27043	11.76485	42.7580	1.05715	1.49391
-0.40	1.42044	9.23777	10.65820	41.0544	1.23510	1.41966
-0.20	1.35312	8.29643	9.64955	39.4747	1.41401	1.35194
0.	1.29374	7.46302	8.75676	38.0322	1.59453	1.29197
0.20	1.24275	6.74196	7.98471	36.7274	1.77706	1.24007
0.40	1.20004	6.12928	7.32932	35.5525	1.96187	1.19595
0.60	1.16522	5.61597	6.78120	34.4949	2.14909	1.15897
0.80	1.13792	5.19060	6.32852	33.5395	2.33879	1.12831
1.00	1.11793	4.84107	5.95900	32.6708	2.53109	1.10308
1.20	1.10550	4.55577	5.66127	31.8739	2.72623	1.08245
1.40	1.10153	4.32417	5.42570	31.1344	2.92467	1.06563
1.60	1.10802	4.13715	5.24517	30.4391	3.12723	1.05195
1.80	1.12863	3.98711	5.11574	29.7747	3.33523	1.04080
2.00	1.16956	3.86812	5.03768	29.1275	3.55070	1.03169
2.20	1.24097	3.77603	5.01700	28.4818	3.77644	1.02422
2.40	1.35930	3.70872	5.06802	27.8179	4.01599	1.01804

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TABLE H (Continued)

8400°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.55935	50.47014	54.02948	116.3117	-4.96075	3.55982
-6.80	3.42054	47.50430	50.92484	111.7380	-4.77803	3.42106
-6.60	3.26819	44.24873	47.51692	106.9419	-4.59781	3.26874
-6.40	3.11062	40.88143	43.99205	102.1057	-4.41927	3.11119
-6.20	2.95593	37.57523	40.53116	97.4029	-4.24143	2.95650
-6.00	2.81054	34.46756	37.27810	92.9678	-4.06333	2.81110
-5.80	2.67864	31.64824	34.32687	88.8851	-3.88421	2.67918
-5.60	2.56233	29.16184	31.72417	85.1925	-3.70349	2.56284
-5.40	2.46201	27.01743	29.47944	81.8916	-3.52083	2.46250
-5.20	2.37701	25.20007	27.57708	78.9606	-3.33609	2.37746
-5.00	2.30595	23.68084	25.98679	76.3636	-3.14927	2.30636
-4.80	2.24718	22.42429	24.67147	74.0591	-2.96048	2.24755
-4.60	2.19896	21.39354	23.59250	72.0050	-2.76990	2.19930
-4.40	2.15964	20.55326	22.71290	70.1614	-2.57774	2.15995
-4.20	2.12770	19.87128	21.99898	68.4925	-2.38421	2.12798
-4.00	2.10180	19.31920	21.42100	66.9667	-2.18953	2.10206
-3.80	2.08078	18.87234	20.95312	65.5570	-1.99390	2.08100
-3.60	2.06359	18.50942	20.57301	64.2399	-1.79750	2.06379
-3.40	2.04933	18.21188	20.26121	62.9954	-1.60051	2.04951
-3.20	2.03713	17.96305	20.00018	61.8057	-1.40310	2.03729
-3.00	2.02614	17.74718	19.77332	60.6543	-1.20545	2.02629
-2.80	2.01543	17.54817	19.56360	59.5247	-1.00775	2.01556
-2.60	2.00389	17.34817	19.35206	58.3991	-0.81025	2.00400
-2.40	1.99012	17.12603	19.11615	57.2572	-0.61324	1.99021
-2.20	1.97238	16.85593	18.82831	56.0745	-0.41713	1.97245
-2.00	1.94853	16.50727	18.45580	54.8228	-0.22241	1.94858
-1.80	1.91624	16.04700	17.96323	53.4722	-0.02967	1.91626
-1.60	1.87345	15.44599	17.31943	51.9982	0.16052	1.87344
-1.40	1.81909	14.68882	16.50792	50.3903	0.34773	1.81904
-1.20	1.75376	13.78303	15.53679	48.6615	0.53185	1.75364
-1.00	1.67991	12.76169	14.44160	46.8493	0.71316	1.67970
-0.80	1.60133	11.67653	13.27786	45.0085	0.89236	1.60099
-0.60	1.52224	10.58489	12.10713	43.1976	1.07036	1.52172
-0.40	1.44640	9.53743	10.98383	41.4668	1.24817	1.44561
-0.20	1.37654	8.57099	9.94753	39.8506	1.42667	1.37534
0.	1.31430	7.70706	9.02136	38.3674	1.60657	1.31250
0.20	1.26042	6.95368	8.21430	37.0217	1.78839	1.25770
0.40	1.21497	6.31006	7.52503	35.8082	1.97244	1.21083
0.60	1.17768	5.76811	6.94580	34.7157	2.15891	1.17137
0.80	1.14821	5.31734	6.46555	33.7296	2.34790	1.13852
1.00	1.12637	4.94585	6.07222	32.8347	2.53956	1.11142
1.20	1.11237	4.64191	5.75428	32.0156	2.73413	1.08921
1.40	1.10710	4.39467	5.50177	31.2577	2.93206	1.07107
1.60	1.11251	4.19464	5.30715	30.5470	3.13418	1.05628
1.80	1.13222	4.03385	5.16607	29.8700	3.34181	1.04423
2.00	1.17238	3.90597	5.07836	29.2124	3.55695	1.03437
2.20	1.24312	3.80653	5.04965	28.5582	3.78239	1.02627
2.40	1.36079	3.73314	5.09393	27.8875	4.02167	1.01958

TABLE H (Continued)
8500°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.62691	51.37777	55.00467	117.8222	-4.94744	3.62740
-6.80	3.49849	48.66530	52.16379	113.4683	-4.76310	3.49904
-6.60	3.35257	45.58289	48.93546	108.8077	-4.58160	3.35317
-6.40	3.19680	42.29198	45.48879	104.0085	-4.40227	3.19743
-6.20	3.03962	38.97097	42.01059	99.2516	-4.22416	3.04026
-6.00	2.88849	35.77745	38.66594	94.6933	-4.04631	2.88912
-5.80	2.74884	32.82640	35.57524	90.4447	-3.86783	2.74946
-5.60	2.62387	30.18544	32.80931	86.5672	-3.68804	2.62446
-5.40	2.51485	27.88128	30.39613	83.0803	-3.50647	2.51541
-5.20	2.42162	25.91080	28.33242	79.9737	-3.32287	2.42214
-5.00	2.34314	24.25185	26.59499	77.2182	-3.13718	2.34362
-4.80	2.27787	22.87215	25.15002	74.7750	-2.94945	2.27831
-4.60	2.22409	21.73553	23.95962	72.6021	-2.75983	2.22450
-4.40	2.18010	20.80593	22.98603	70.6588	-2.56850	2.18047
-4.20	2.14430	20.04971	22.19400	68.9071	-2.37570	2.14463
-4.00	2.11524	19.43667	21.55191	67.3135	-2.18162	2.11554
-3.80	2.09166	18.94040	21.03205	65.8488	-1.98649	2.09192
-3.60	2.07244	18.53799	20.61043	64.4877	-1.79050	2.07268
-3.40	2.05662	18.20958	20.26619	63.2086	-1.59383	2.05683
-3.20	2.04328	17.93756	19.98084	61.9927	-1.39665	2.04347
-3.00	2.03155	17.70569	19.73724	60.8226	-1.19915	2.03172
-2.80	2.02053	17.49790	19.51843	59.6818	-1.00152	2.02068
-2.60	2.00915	17.29700	19.30616	58.5530	-0.80397	2.00928
-2.40	1.99613	17.08310	19.07923	57.4167	-0.60675	1.99624
-2.20	1.97984	16.83215	18.81198	56.2501	-0.41035	1.97993
-2.00	1.95825	16.51524	18.47349	55.0262	-0.21511	1.95831
-1.80	1.92906	16.09990	18.02896	53.7154	-0.02163	1.92910
-1.60	1.89005	15.55484	17.44490	52.2906	0.16949	1.89006
-1.40	1.83971	14.85881	16.69851	50.7353	0.35777	1.83966
-1.20	1.77798	14.01047	15.78845	49.0535	0.54294	1.77787
-1.00	1.70668	13.03398	14.74066	47.2743	0.72517	1.70648
-0.80	1.62925	11.97528	13.60453	45.4474	0.90501	1.62892
-0.60	1.54987	10.89069	12.44057	43.6308	1.08332	1.54935
-0.40	1.47254	9.83373	11.30627	41.8780	1.26109	1.47174
-0.20	1.40038	8.84601	10.24638	40.2290	1.43926	1.39916
0.	1.33542	7.95397	9.28939	38.7073	1.61864	1.33359
0.20	1.27869	7.16996	8.44866	37.3217	1.79979	1.27593
0.40	1.23050	6.49551	7.72601	36.0699	1.98310	1.22631
0.60	1.19070	5.92492	7.11562	34.9421	2.16882	1.18432
0.80	1.15900	5.44845	6.60745	33.9249	2.35710	1.14923
1.00	1.13524	5.05455	6.18980	33.0030	2.54811	1.12019
1.20	1.11961	4.73146	5.85107	32.1610	2.74209	1.09632
1.40	1.11298	4.46810	5.58107	31.3840	2.93950	1.07680
1.60	1.11726	4.25461	5.37187	30.6574	3.14117	1.06086
1.80	1.13603	4.08264	5.21867	29.9673	3.34841	1.04785
2.00	1.17538	3.94553	5.12091	29.2989	3.56320	1.03721
2.20	1.24542	3.83843	5.08384	28.6358	3.78833	1.02845
2.40	1.36241	3.75869	5.12110	27.9578	4.02733	1.02121

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TABLE H (Continued)
8600°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.68637	52.09630	55.78267	119.1460	-4.93530	3.68689
-6.80	3.56956	49.65688	53.22644	115.0350	-4.74929	3.57014
-6.60	3.43217	46.78738	50.21955	110.5525	-4.56633	3.43280
-6.40	3.28061	43.62179	46.90241	105.8408	-4.38595	3.28129
-6.20	3.12317	40.33275	43.45592	101.0772	-4.20731	3.12387
-6.00	2.96800	37.09088	40.05888	96.4329	-4.02944	2.96870
-5.80	2.82169	34.03393	36.85561	92.0432	-3.85139	2.82238
-5.60	2.68862	31.25347	33.94209	87.9944	-3.67237	2.68929
-5.40	2.57103	28.79627	31.36731	84.3267	-3.49179	2.57167
-5.20	2.46946	26.67360	29.14306	81.0440	-3.30930	2.47007
-5.00	2.38328	24.87236	27.25564	78.1259	-3.12473	2.38384
-4.80	2.31117	23.36504	25.67621	75.5382	-2.93807	2.31168
-4.60	2.25147	22.11732	24.36878	73.2403	-2.74944	2.25194
-4.40	2.20246	21.09309	23.29555	71.1909	-2.55899	2.20289
-4.20	2.16247	20.25761	22.42008	69.3507	-2.36695	2.16285
-4.00	2.12996	19.57910	21.70906	67.6841	-2.17353	2.13031
-3.80	2.10358	19.02941	21.13298	66.1598	-1.97894	2.10389
-3.60	2.08212	18.58400	20.66612	64.7508	-1.78340	2.08240
-3.40	2.06454	18.22160	20.28614	63.4337	-1.58708	2.06479
-3.20	2.04988	17.92355	19.97343	62.1884	-1.39017	2.05011
-3.00	2.03725	17.67290	19.71016	60.9967	-1.19286	2.03745
-2.80	2.02573	17.45344	19.47917	59.8417	-0.99532	2.02591
-2.60	2.01432	17.24833	19.26264	58.7063	-0.79777	2.01447
-2.40	2.00179	17.03868	19.04048	57.5719	-0.60048	2.00193
-2.20	1.98664	16.80203	18.78867	56.4167	-0.40378	1.98675
-2.00	1.96696	16.51120	18.47817	55.2153	-0.20811	1.96705
-1.80	1.94053	16.13478	18.07531	53.9389	-0.01398	1.94058
-1.60	1.90501	15.64049	17.54550	52.5587	0.17799	1.90502
-1.40	1.85856	15.00264	16.86120	51.0538	0.36727	1.85852
-1.20	1.80056	14.21214	16.01269	49.4203	0.55351	1.80045
-1.00	1.73218	13.28409	15.01626	47.6785	0.73669	1.73198
-0.80	1.65637	12.25752	13.91388	45.8715	0.91725	1.65603
-0.60	1.57716	11.18613	12.76329	44.0555	1.09598	1.57663
-0.40	1.49873	10.12508	11.62381	42.2863	1.27382	1.49792
-0.20	1.42455	9.12019	10.54474	40.6085	1.45178	1.42332
0.	1.35703	8.20278	9.55981	39.0509	1.63069	1.35517
0.20	1.29754	7.38952	8.68706	37.6267	1.81122	1.29473
0.40	1.24661	6.68514	7.93175	36.3369	1.99383	1.24237
0.60	1.20426	6.08606	7.29032	35.1738	2.17882	1.19781
0.80	1.17028	5.58369	6.75398	34.1250	2.36639	1.16042
1.00	1.14454	5.16701	6.31155	33.1756	2.55673	1.12937
1.20	1.12722	4.82431	5.95153	32.3101	2.75011	1.10380
1.40	1.11917	4.54434	5.66351	31.5133	2.94699	1.08283
1.60	1.12227	4.31695	5.43922	30.7703	3.14819	1.06569
1.80	1.14005	4.13342	5.27346	30.0665	3.35502	1.05168
2.00	1.17857	3.98670	5.16527	29.3869	3.56943	1.04020
2.20	1.24787	3.87163	5.11950	28.7145	3.79427	1.03076
2.40	1.36417	3.78528	5.14945	28.0289	4.03297	1.02294

TABLE H (Continued)

8700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.73793	52.63595	56.37389	120.2913	-4.92425	3.73846
-6.80	3.63330	50.47561	54.10891	116.4327	-4.73658	3.63391
-6.60	3.50604	47.84740	51.35343	112.1597	-4.55206	3.50671
-6.40	3.36092	44.85009	48.21101	107.5806	-4.37042	3.36165
-6.20	3.20549	41.63940	44.84489	102.8577	-4.19099	3.20625
-6.00	3.04819	38.38982	41.43801	98.1682	-4.01284	3.04897
-5.80	2.89657	35.25729	38.15386	93.6671	-3.83500	2.89735
-5.60	2.75620	32.35674	35.11294	89.4654	-3.65657	2.75696
-5.40	2.63038	29.75677	32.38715	85.6256	-3.47686	2.63111
-5.20	2.52047	27.48545	30.00593	82.1688	-3.29540	2.52116
-5.00	2.42640	25.54106	27.96746	79.0860	-3.11192	2.42704
-4.80	2.34714	23.90273	26.24987	76.3490	-2.92634	2.34773
-4.60	2.28118	22.53928	24.82045	73.9204	-2.73872	2.28172
-4.40	2.22680	21.41540	23.64220	71.7589	-2.54920	2.22730
-4.20	2.18230	20.49577	22.67806	69.8244	-2.35797	2.18275
-4.00	2.14605	19.74727	21.89332	68.0795	-2.16524	2.14646
-3.80	2.11661	19.14011	21.25672	66.4911	-1.97124	2.11698
-3.60	2.09269	18.64814	20.74083	65.0301	-1.77618	2.09302
-3.40	2.07316	18.24861	20.32177	63.6715	-1.58025	2.07346
-3.20	2.05701	17.92167	19.97868	62.3937	-1.38364	2.05728
-3.00	2.04330	17.64956	19.69286	61.1775	-1.18655	2.04354
-2.80	2.03112	17.41567	19.44679	60.0055	-0.98915	2.03133
-2.60	2.01947	17.20333	19.22280	58.8605	-0.79164	2.01966
-2.40	2.00721	16.99439	19.00161	57.7243	-0.59429	2.00737
-2.20	1.99293	16.76770	18.76063	56.5764	-0.39739	1.99306
-2.00	1.97484	16.49778	18.47262	55.3927	-0.20135	1.97494
-1.80	1.95080	16.15458	18.10538	54.1453	-0.00667	1.95087
-1.60	1.91846	15.70568	17.62414	52.8052	0.18607	1.91849
-1.40	1.87574	15.12234	16.99807	51.3477	0.37629	1.87572
-1.20	1.82151	14.38886	16.21037	49.7625	0.56355	1.82141
-1.00	1.75631	13.51168	15.26799	48.0611	0.74772	1.75611
-0.80	1.68253	12.52208	14.20462	46.2794	0.92968	1.68220
-0.60	1.60398	11.46971	13.07369	44.4702	1.10832	1.60344
-0.40	1.52486	10.41003	11.93489	42.6901	1.28635	1.52404
-0.20	1.44896	9.39233	10.84128	40.9879	1.46417	1.44771
0.	1.37907	8.45258	9.83165	39.3972	1.64270	1.37718
0.20	1.31690	7.61191	8.92881	37.9361	1.82267	1.31406
0.40	1.26327	6.87854	8.14180	36.6089	2.00461	1.25897
0.60	1.21835	6.25126	7.46961	35.4106	2.18889	1.21183
0.80	1.18205	5.72290	6.90495	34.3298	2.37576	1.17209
1.00	1.15427	5.28311	6.43738	33.3524	2.56543	1.13899
1.20	1.13520	4.92040	6.05561	32.4629	2.75819	1.11164
1.40	1.12568	4.62340	5.74908	31.6457	2.95453	1.08917
1.60	1.12754	4.38167	5.50922	30.8856	3.15525	1.07077
1.80	1.14429	4.18618	5.33047	30.1677	3.36166	1.05571
2.00	1.18194	4.02950	5.21145	29.4763	3.57572	1.04336
2.20	1.25047	3.90616	5.15664	28.7944	3.80019	1.03319
2.40	1.36605	3.81293	5.17899	28.1009	4.03859	1.02477

TABLE H (Continued)

8800°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.78204	53.01190	56.79394	121.2711	-4.91419	3.78258
-6.80	3.68961	51.12476	54.81437	117.6626	-4.72494	3.69024
-6.60	3.57352	48.75400	52.32752	113.6186	-4.53882	3.57423
-6.40	3.43671	45.95956	49.39626	109.2092	-4.35577	3.43749
-6.20	3.28550	42.87063	46.15612	104.5720	-4.17532	3.28633
-6.00	3.12812	39.65541	42.78354	99.8798	-3.99663	3.12898
-5.80	2.97279	36.48135	39.45414	95.3012	-3.81875	2.97365
-5.60	2.82613	33.48445	36.31058	90.9694	-3.64073	2.82699
-5.40	2.69261	30.75573	33.44833	86.9703	-3.46174	2.69343
-5.20	2.57453	28.34219	30.91672	83.3445	-3.28122	2.57531
-5.00	2.47246	26.25583	28.72829	80.0967	-3.09879	2.47320
-4.80	2.38581	24.48442	26.87023	77.2072	-2.91428	2.38650
-4.60	2.31327	23.00139	25.31467	74.6427	-2.72769	2.31391
-4.40	2.25320	21.77330	24.02650	72.3636	-2.53912	2.25378
-4.20	2.20386	20.76482	22.96868	70.3292	-2.34873	2.20439
-4.00	2.16359	19.94187	22.10545	68.5009	-2.15674	2.16407
-3.80	2.13083	19.27321	21.40404	66.8437	-1.96337	2.13126
-3.60	2.10422	18.73108	20.83530	65.3266	-1.76883	2.10461
-3.40	2.08254	18.29126	20.37379	63.9229	-1.57333	2.08288
-3.20	2.06471	17.93259	19.99730	62.6095	-1.37706	2.06502
-3.00	2.04976	17.63638	19.68614	61.3660	-1.18021	2.05004
-2.80	2.03675	17.38546	19.42221	60.1741	-0.98298	2.03699
-2.60	2.02469	17.16310	19.18779	59.0166	-0.78556	2.02491
-2.40	2.01249	16.95165	18.96415	57.8756	-0.58818	2.01268
-2.20	1.99882	16.73105	18.72987	56.7312	-0.39114	1.99899
-2.00	1.98202	16.47735	18.45938	55.5607	-0.19481	1.98215
-1.80	1.96005	16.16203	18.12208	54.3375	0.00035	1.96014
-1.60	1.93057	15.75317	17.68375	53.0325	0.19377	1.93062
-1.40	1.89135	15.22011	17.11145	51.6189	0.38485	1.89134
-1.20	1.84085	14.54186	16.38271	50.0809	0.57310	1.84077
-1.00	1.77902	13.71683	15.49585	48.4219	0.75826	1.77883
-0.80	1.70765	12.76814	14.47579	46.6701	0.94048	1.70733
-0.60	1.63018	11.74012	13.37030	44.8734	1.12032	1.62965
-0.40	1.55080	10.68721	12.23800	43.0880	1.29864	1.54996
-0.20	1.47351	9.66120	11.13471	41.3658	1.47643	1.47224
0.	1.40146	8.70240	10.10387	39.7453	1.65466	1.39955
0.20	1.33675	7.83642	9.17317	38.2491	1.83413	1.33386
0.40	1.28045	7.07520	8.35565	36.8856	2.01544	1.27609
0.60	1.23296	6.42020	7.65316	35.6522	2.19903	1.22636
0.80	1.19430	5.86588	7.06018	34.5393	2.38520	1.18425
1.00	1.16443	5.40276	6.56719	33.5334	2.57420	1.14902
1.20	1.14356	5.01968	6.16324	32.6192	2.76634	1.11984
1.40	1.13251	4.70522	5.83773	31.7811	2.96212	1.09581
1.60	1.13309	4.44876	5.58185	31.0035	3.16235	1.07610
1.80	1.14877	4.24091	5.38968	30.2709	3.36831	1.05994
2.00	1.18551	4.07394	5.25945	29.5674	3.58199	1.04668
2.20	1.25324	3.94201	5.19526	28.8754	3.80612	1.03575
2.40	1.36808	3.84164	5.20972	28.1736	4.04419	1.02669

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TABLE H (Continued)
8900°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.81933	53.24235	57.06168	122.1019	-4.90502	3.81988
-6.80	3.73865	51.61321	55.35186	118.7316	-4.71430	3.73929
-6.60	3.63423	49.50426	53.13849	114.9240	-4.52660	3.63497
-6.40	3.50715	46.93720	50.44435	110.7118	-4.34206	3.50797
-6.20	3.36217	44.00800	47.37017	106.2002	-4.16039	3.36306
-6.00	3.20681	40.86859	44.07540	101.5480	-3.98094	3.20774
-5.80	3.04951	37.68964	40.73916	96.9285	-3.80278	3.05047
-5.60	2.89784	34.62393	37.52177	92.4936	-3.62494	2.89879
-5.40	2.75736	31.78428	34.54164	88.3523	-3.44652	2.75829
-5.20	2.63142	29.23815	31.86956	84.5657	-3.26682	2.63231
-5.00	2.52138	27.01333	29.53472	81.1551	-3.08537	2.52222
-4.80	2.42718	25.10836	27.53553	78.1112	-2.90191	2.42796
-4.60	2.34779	23.50296	25.85075	75.4069	-2.71635	2.34852
-4.40	2.28172	22.16667	24.44838	73.0051	-2.52975	2.28238
-4.20	2.22724	21.06498	23.29222	70.8656	-2.33924	2.22785
-4.00	2.18263	20.16330	22.34593	68.9489	-2.14803	2.18319
-3.80	2.14629	19.42915	21.57545	67.2183	-1.95532	2.14690
-3.60	2.11675	18.83330	20.95006	65.6410	-1.76134	2.11721
-3.40	2.09272	18.35001	20.44273	64.1887	-1.56630	2.09312
-3.20	2.07304	17.95679	20.02983	62.8364	-1.37040	2.07340
-3.00	2.05668	17.63388	19.69056	61.5627	-1.17384	2.05701
-2.80	2.04267	17.36343	19.40610	60.3484	-0.97681	2.04296
-2.60	2.03004	17.12845	19.15849	59.1757	-0.77951	2.03030
-2.40	2.01771	16.91157	18.92928	58.0268	-0.58215	2.01794
-2.20	2.00444	16.69357	18.69801	56.8826	-0.38502	2.00463
-2.00	1.98865	16.45188	18.44053	55.7213	-0.18845	1.98881
-1.80	1.96842	16.15952	18.12794	54.5176	0.00711	1.96854
-1.60	1.94149	15.78549	17.72698	53.2430	0.20112	1.94156
-1.40	1.90551	15.29816	17.20368	51.8695	0.39300	1.90553
-1.20	1.85864	14.67253	16.53118	50.3767	0.58219	1.85858
-1.00	1.80028	13.89987	15.70016	48.7611	0.76833	1.80011
-0.80	1.73163	12.99508	14.72670	47.0427	0.95144	1.73131
-0.60	1.65565	11.99617	13.65183	45.2636	1.13196	1.65512
-0.40	1.57642	10.95523	12.53165	43.4784	1.31066	1.57558
-0.20	1.49808	9.92554	11.42362	41.7409	1.48853	1.49680
0.	1.42414	8.95121	10.37535	40.0940	1.66654	1.42220
0.20	1.35701	8.06228	9.41929	38.5649	1.84557	1.35409
0.40	1.29812	7.27458	8.57270	37.1662	2.02630	1.29370
0.60	1.24807	6.59249	7.84055	35.8982	2.20923	1.24139
0.80	1.20702	6.01236	7.21938	34.7531	2.39470	1.19686
1.00	1.17502	5.52577	6.70079	33.7183	2.58303	1.15948
1.20	1.15229	5.12200	6.27430	32.7791	2.77455	1.12841
1.40	1.13966	4.78973	5.92939	31.9195	2.96976	1.10277
1.60	1.13891	4.51814	5.65705	31.1237	3.16948	1.08169
1.80	1.15347	4.29758	5.45105	30.3760	3.37500	1.06439
2.00	1.18927	4.11997	5.30924	29.6599	3.58827	1.05018
2.20	1.25618	3.97918	5.23535	28.9575	3.81204	1.03845
2.40	1.37024	3.87139	5.24163	28.2472	4.04979	1.02872

TABLE H (Continued)

9000°K

LOG ρ/ρ_0	γ	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.85058	53.34742	57.19800	122.8025	-4.89663	3.85113
-6.80	3.78085	51.95495	55.73580	119.6520	-4.70457	3.78151
-6.60	3.68810	50.10211	53.79020	116.0784	-4.51536	3.68886
-6.40	3.57170	47.77645	51.34815	112.0802	-4.32928	3.57256
-6.20	3.43465	45.03762	48.47227	107.7274	-4.14627	3.43560
-6.00	3.28332	42.01272	45.29605	103.1552	-3.96584	3.28433
-5.80	3.12594	38.86655	41.99249	98.5331	-3.78718	3.12699
-5.60	2.97070	35.76262	38.73333	94.0256	-3.60930	2.97176
-5.40	2.82422	32.83345	35.65767	89.7624	-3.43126	2.82526
-5.20	2.69091	30.16745	32.85836	85.8268	-3.25226	2.69191
-5.00	2.57306	27.81014	30.38319	82.2581	-3.07171	2.57401
-4.80	2.47121	25.77283	28.24404	79.0599	-2.88925	2.47211
-4.60	2.38477	24.04334	26.42810	76.2129	-2.70471	2.38560
-4.40	2.31240	22.59555	24.90795	73.6840	-2.51809	2.31317
-4.20	2.25248	21.39666	23.64914	71.4345	-2.32950	2.25318
-4.00	2.20326	20.41212	22.61539	69.4244	-2.13909	2.20390
-3.80	2.16307	19.60857	21.77164	67.6157	-1.94709	2.16365
-3.60	2.13037	18.95541	21.08578	65.9742	-1.75370	2.13089
-3.40	2.10377	18.42545	20.52921	64.4696	-1.55916	2.10424
-3.20	2.08205	17.99483	20.07688	63.0753	-1.36367	2.08247
-3.00	2.06411	17.64265	19.70676	61.7685	-1.16742	2.06449
-2.80	2.04895	17.35023	19.39918	60.5291	-0.97063	2.04929
-2.60	2.03558	17.10017	19.13575	59.3386	-0.77347	2.03588
-2.40	2.02295	16.87516	18.89811	58.1791	-0.57617	2.02321
-2.20	2.00986	16.65662	18.66648	57.0319	-0.37899	2.01009
-2.00	1.99484	16.42314	18.41798	55.8762	-0.18225	1.99503
-1.80	1.97607	16.14921	18.12528	54.6878	0.01364	1.97621
-1.60	1.95136	15.80505	17.75641	53.4390	0.20818	1.95146
-1.40	1.91835	15.35881	17.27717	52.1014	0.40077	1.91839
-1.20	1.87496	14.78258	16.65754	50.6513	0.59083	1.87492
-1.00	1.82011	14.06155	15.88166	49.0790	0.77794	1.81995
-0.80	1.75440	13.20268	14.95708	47.3967	0.96197	1.75409
-0.60	1.68029	12.23699	13.91728	45.6399	1.14323	1.67976
-0.40	1.60161	11.21294	12.81455	43.8601	1.32240	1.60077
-0.20	1.52259	10.18420	11.70679	42.1120	1.50043	1.52130
0.	1.44701	9.19803	10.64504	40.4423	1.67831	1.44504
0.20	1.37765	8.28872	9.66637	38.8828	1.85698	1.37468
0.40	1.31624	7.47613	8.79237	37.4503	2.03718	1.31177
0.60	1.26365	6.76775	8.03140	36.1482	2.21947	1.25689
0.80	1.22020	6.16209	7.38229	34.9710	2.40427	1.20994
1.00	1.18603	5.65198	6.83800	33.9072	2.59194	1.17036
1.20	1.16140	5.22729	6.38869	32.9423	2.78282	1.13735
1.40	1.14713	4.87686	6.02400	32.0608	2.97746	1.11004
1.60	1.14501	4.58979	5.73479	31.2464	3.17665	1.08755
1.80	1.15841	4.35615	5.51456	30.4831	3.38170	1.06906
2.00	1.19322	4.16758	5.36080	29.7540	3.59456	1.05384
2.20	1.25928	4.01761	5.27689	29.0408	3.81796	1.04128
2.40	1.37255	3.90214	5.27470	28.3216	4.05537	1.03085

TABLE H (Continued)

9100°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.87658	53.34686	57.22344	123.3917	-4.88891	3.87714
-6.80	3.81681	52.16633	55.98315	120.4389	-4.69566	3.81748
-6.60	3.73532	50.55611	54.29142	117.0888	-4.50503	3.73610
-6.40	3.63007	48.47593	52.10601	113.3118	-4.31744	3.63097
-6.20	3.50228	45.94957	49.45185	109.1423	-4.13301	3.50328
-6.00	3.35682	43.07326	46.43008	104.6860	-3.95143	3.35790
-5.80	3.20127	39.99694	43.19822	100.0994	-3.77204	3.20241
-5.60	3.04408	36.88752	39.93160	95.5520	-3.59390	3.04523
-5.40	2.89273	33.89340	36.78613	91.1911	-3.41605	2.89388
-5.20	2.75274	31.12342	33.87616	87.1217	-3.23759	2.75386
-5.00	2.62734	28.64214	31.26949	83.4020	-3.05784	2.62842
-4.80	2.51788	26.47561	28.99349	80.0513	-2.87632	2.51889
-4.60	2.42421	24.62158	27.04579	77.0600	-2.69279	2.42516
-4.40	2.34531	23.05976	25.40507	74.4005	-2.50716	2.34619
-4.20	2.27966	21.76012	24.03978	72.0364	-2.31949	2.28047
-4.00	2.22554	20.68882	22.91437	69.9281	-2.12992	2.22628
-3.80	2.18123	19.81202	21.99325	68.0370	-1.93866	2.18190
-3.60	2.14512	19.09799	21.24310	66.3271	-1.74591	2.14572
-3.40	2.11574	18.51814	20.63387	64.7663	-1.55190	2.11628
-3.20	2.09179	18.04725	20.13904	63.3268	-1.35684	2.09228
-3.00	2.07211	17.66322	19.73533	61.9842	-1.16095	2.07254
-2.80	2.05564	17.34643	19.40207	60.7170	-0.96441	2.05603
-2.60	2.04138	17.07891	19.12029	59.5062	-0.76744	2.04172
-2.40	2.02827	16.84327	18.87155	58.3335	-0.57023	2.02858
-2.20	2.01518	16.62132	18.63650	57.1805	-0.37305	2.01544
-2.00	2.00069	16.39261	18.39330	56.0270	-0.17618	2.00092
-1.80	1.98311	16.13301	18.11612	54.8500	0.01999	1.98328
-1.60	1.96033	15.81405	17.77438	53.6228	0.21497	1.96045
-1.40	1.93001	15.40424	17.33424	52.3168	0.40820	1.93007
-1.20	1.88989	14.87376	16.76365	50.9064	0.59908	1.88987
-1.00	1.83852	14.20282	16.04134	49.3765	0.78711	1.83838
-0.80	1.77592	13.39099	15.16690	47.7320	0.97206	1.77562
-0.60	1.70400	12.46187	14.16587	46.0013	1.15411	1.70347
-0.40	1.62626	11.45926	13.08553	44.2317	1.33383	1.62542
-0.20	1.54693	10.43603	11.98297	42.4779	1.51211	1.54562
0.	1.47000	9.44186	10.91186	40.7892	1.68996	1.46800
0.20	1.39858	8.51497	9.91355	39.2020	1.86833	1.39558
0.40	1.33477	7.67927	9.01403	37.7373	2.04805	1.33023
0.60	1.27968	6.94560	8.22528	36.4020	2.22974	1.27284
0.80	1.23383	6.31482	7.54864	35.1928	2.41389	1.22345
1.00	1.19745	5.78122	6.97866	34.0997	2.60090	1.18164
1.20	1.17088	5.33543	6.50631	33.1090	2.79115	1.14665
1.40	1.15493	4.96657	6.12150	32.2050	2.98520	1.11762
1.60	1.15138	4.66367	5.81505	31.3716	3.18386	1.09367
1.80	1.16358	4.41663	5.58021	30.5922	3.38844	1.07394
2.00	1.19738	4.21678	5.41416	29.8497	3.60087	1.05769
2.20	1.26255	4.05734	5.31989	29.1253	3.82389	1.04425
2.40	1.37501	3.93395	5.30896	28.3968	4.06095	1.03309

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TABLE H (Continued)

9200°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z#
-7.00	3.89808	53.25853	57.15661	123.8859	-4.88176	3.89863
-6.80	3.84717	52.26393	56.11109	121.1072	-4.68747	3.84784
-6.60	3.77622	50.87718	54.65340	117.9642	-4.49555	3.77702
-6.40	3.68214	49.03760	52.71974	114.4064	-4.30651	3.68306
-6.20	3.56449	46.73658	50.30108	110.4359	-4.12061	3.56554
-6.00	3.42647	44.03652	47.46300	106.1253	-3.93776	3.42762
-5.80	3.27460	41.06479	44.33939	101.6102	-3.75745	3.27582
-5.60	3.11716	37.98353	41.10070	97.0571	-3.57885	3.11842
-5.40	2.96228	34.95174	37.91402	92.6257	-3.40099	2.96354
-5.20	2.81645	32.09686	34.91331	88.4406	-3.22291	2.81770
-5.00	2.68397	29.50300	32.18697	84.5805	-3.04383	2.68517
-4.80	2.56701	27.21260	29.77962	81.0816	-2.86318	2.56816
-4.60	2.46606	25.23521	27.70127	77.9460	-2.68061	2.46713
-4.40	2.38043	23.55794	25.93837	75.1533	-2.49596	2.38143
-4.20	2.30880	22.15470	24.46350	72.6709	-2.30923	2.30972
-4.00	2.24951	20.99318	23.24269	70.4602	-2.12053	2.25035
-3.80	2.20081	20.03954	22.24035	68.4822	-1.93003	2.20158
-3.60	2.16105	19.26120	21.42225	66.6999	-1.73795	2.16174
-3.40	2.12867	18.62832	20.75699	65.0795	-1.54450	2.12930
-3.20	2.10230	18.11435	20.21665	63.5915	-1.34992	2.10286
-3.00	2.08070	17.69593	19.77663	62.2101	-1.15440	2.08121
-2.80	2.06277	17.35243	19.41520	60.9126	-0.95816	2.06323
-2.60	2.04746	17.06521	19.11268	59.6791	-0.76140	2.04787
-2.40	2.03374	16.81660	18.85034	58.4908	-0.56432	2.03409
-2.20	2.02046	16.58863	18.60908	57.3293	-0.36716	2.02077
-2.00	2.00630	16.36160	18.36790	56.1750	-0.17022	2.00657
-1.80	1.98965	16.11259	18.10225	55.0058	0.02617	1.98987
-1.60	1.96852	15.81451	17.78303	53.7961	0.22153	1.96868
-1.40	1.94060	15.43660	17.37720	52.5178	0.41532	1.94069
-1.20	1.90354	14.94798	16.85152	51.1436	0.60695	1.90354
-1.00	1.85556	14.32495	16.18051	49.6546	0.79586	1.85544
-0.80	1.79617	13.56040	15.35657	48.0487	0.98173	1.79589
-0.60	1.72671	12.67048	14.39719	46.3473	1.16461	1.72620
-0.40	1.65029	11.69339	13.34367	44.5924	1.34495	1.64944
-0.20	1.57100	10.68009	12.25109	42.8374	1.52356	1.56968
0.	1.49302	9.68180	11.17481	41.1337	1.70145	1.49100
0.20	1.41977	8.74026	10.16003	39.5217	1.87961	1.41672
0.40	1.35367	7.88342	9.23709	38.0266	2.05890	1.34907
0.60	1.29613	7.12560	8.42173	36.6590	2.24004	1.28921
0.80	1.24788	6.47023	7.71811	35.4182	2.42356	1.23740
1.00	1.20928	5.91327	7.12255	34.2958	2.60992	1.19332
1.20	1.18073	5.44626	6.62699	33.2789	2.79954	1.15632
1.40	1.16306	5.05870	6.22176	32.3521	2.99299	1.12552
1.60	1.15804	4.73968	5.89771	31.4991	3.19111	1.10005
1.80	1.16900	4.47890	5.64790	30.7032	3.39520	1.07904
2.00	1.20174	4.26746	5.46920	29.9469	3.60720	1.06171
2.20	1.26600	4.09827	5.36427	29.2110	3.82982	1.04736
2.40	1.37761	3.96670	5.34431	28.4729	4.06651	1.03544

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TABLE H (Continued)
9300°K

LOG P/P_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.91578	53.09907	57.01485	124.3014	-4.87510	3.91634
-6.80	3.87263	52.26508	56.13771	121.6734	-4.67991	3.87330
-6.60	3.81133	51.07971	54.89104	118.7179	-4.48684	3.81214
-6.40	3.72807	49.46906	53.19713	115.3704	-4.29643	3.72902
-6.20	3.62103	47.39769	51.01872	111.6059	-4.10909	3.62211
-6.00	3.49170	44.89426	48.38596	107.4639	-3.92488	3.49290
-5.80	3.34520	42.05791	45.40311	103.0527	-3.74349	3.34650
-5.60	3.18926	39.03800	42.22726	98.5279	-3.56423	3.19062
-5.40	3.03229	35.99760	39.02990	94.0550	-3.38615	3.03368
-5.20	2.88166	33.07956	35.96122	89.7755	-3.20827	2.88304
-5.00	2.74270	30.38714	33.12984	85.7884	-3.02974	2.74404
-4.80	2.61851	27.98039	30.59890	82.1477	-2.84986	2.61979
-4.60	2.51027	25.88239	28.39266	78.8694	-2.66820	2.51148
-4.40	2.41777	24.08929	26.50706	75.9422	-2.48450	2.41890
-4.20	2.33993	22.58025	24.92018	73.3382	-2.29871	2.34098
-4.00	2.27521	21.32541	23.60062	71.0212	-2.11090	2.27617
-3.80	2.22187	20.29153	22.51340	68.9522	-1.92120	2.22275
-3.60	2.17822	19.44553	21.62374	67.0934	-1.72982	2.17901
-3.40	2.14262	18.75650	20.89912	65.4097	-1.53697	2.14334
-3.20	2.11363	18.19661	20.31024	63.8700	-1.34289	2.11428
-3.00	2.08995	17.74125	19.83119	62.4469	-1.14778	2.09053
-2.80	2.07040	17.36872	19.43912	61.1166	-0.95186	2.07092
-2.60	2.05390	17.05960	19.11350	59.8579	-0.75534	2.05436
-2.40	2.03939	16.79579	18.83518	58.6517	-0.55842	2.03980
-2.20	2.02577	16.55938	18.58514	57.4792	-0.36133	2.02613
-2.00	2.01175	16.33120	18.34295	56.3213	-0.16434	2.01206
-1.80	1.99581	16.08941	18.08523	55.1567	0.03220	1.99607
-1.60	1.97606	15.80823	17.78429	53.9607	0.22788	1.97625
-1.40	1.95025	15.45788	17.40813	52.7060	0.42217	1.95038
-1.20	1.91601	15.00710	16.92311	51.3646	0.61448	1.91604
-1.00	1.87130	14.42927	16.30056	49.9143	0.80422	1.87120
-0.80	1.81516	13.71149	15.52664	48.3473	0.99100	1.81489
-0.60	1.74838	12.86259	14.61097	46.6775	1.17472	1.74788
-0.40	1.67359	11.91457	13.58816	44.9413	1.35573	1.67275
-0.20	1.59472	10.91540	12.51011	43.1895	1.53477	1.59339
0.	1.51599	9.91688	11.43287	41.4748	1.71278	1.51395
0.20	1.44114	8.96380	10.40493	39.8410	1.89079	1.43805
0.40	1.37289	8.08796	9.46085	38.3175	2.06972	1.36824
0.60	1.31299	7.30729	8.62027	36.9187	2.25034	1.30597
0.80	1.26236	6.62799	7.89035	35.6468	2.43326	1.25175
1.00	1.22152	6.04789	7.26941	34.4952	2.61898	1.20541
1.20	1.19094	5.55961	6.75055	33.4518	2.80797	1.16634
1.40	1.17151	5.15315	6.32466	32.5018	3.00083	1.13373
1.60	1.16498	4.81771	5.98269	31.6289	3.19840	1.10670
1.80	1.17465	4.54291	5.71756	30.8161	3.40199	1.08436
2.00	1.20631	4.31957	5.52588	30.0455	3.61354	1.06591
2.20	1.26962	4.14036	5.40997	29.2977	3.83576	1.05062
2.40	1.38036	4.00034	5.38070	28.5497	4.07208	1.03790

TABLE H (Continued)
9400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.93034	52.88285	56.81319	124.6521	-4.86884	3.93089
-6.80	3.89389	52.18591	56.07980	122.1530	-4.67289	3.89456
-6.60	3.84124	51.17875	55.01998	119.3640	-4.47880	3.84205
-6.40	3.76819	49.78056	53.54874	116.2128	-4.28714	3.76915
-6.20	3.67183	47.93558	51.60741	112.6538	-4.09839	3.67295
-6.00	3.55206	45.64149	49.19355	108.6955	-3.91279	3.55332
-5.80	3.41243	42.96611	46.37854	104.4158	-3.73021	3.41380
-5.60	3.25968	40.03890	43.29858	99.9519	-3.55010	3.26114
-5.40	3.10218	37.01984	40.12202	95.4679	-3.37161	3.10368
-5.20	2.94793	34.06260	37.01053	91.1177	-3.19375	2.94944
-5.00	2.80324	31.28819	34.09143	87.0193	-3.01561	2.80473
-4.80	2.67220	28.77485	31.44704	83.2457	-2.83640	2.67363
-4.60	2.55678	26.56071	29.11749	79.8282	-2.65558	2.55813
-4.40	2.45732	24.65261	27.10993	76.7662	-2.47281	2.45860
-4.20	2.37309	23.03634	25.40943	74.0382	-2.28796	2.37427
-4.00	2.30270	21.68554	23.98824	71.6113	-2.10104	2.30379
-3.80	2.24447	20.56827	22.81274	69.4474	-1.91216	2.24547
-3.60	2.19668	19.65136	21.84804	67.5083	-1.72151	2.19759
-3.40	2.15764	18.90309	21.06074	65.7577	-1.52929	2.15847
-3.20	2.12584	18.29446	20.42030	64.1630	-1.33574	2.12658
-3.00	2.09989	17.79961	19.89950	62.6954	-1.14108	2.10056
-2.80	2.07856	17.39574	19.47430	61.3295	-0.94551	2.07916
-2.60	2.06072	17.06256	19.12327	60.0433	-0.74925	2.06125
-2.40	2.04529	16.78142	18.82671	58.8168	-0.55252	2.04576
-2.20	2.03116	16.53429	18.56545	57.6311	-0.35553	2.03158
-2.00	2.01711	16.30239	18.31951	56.4670	-0.15854	2.01747
-1.80	2.00167	16.06475	18.06642	55.3039	0.03812	2.00197
-1.60	1.98305	15.79679	17.77985	54.1183	0.23406	1.98329
-1.40	1.95910	15.46991	17.42900	52.8835	0.42878	1.95925
-1.20	1.92741	15.05295	16.98036	51.5713	0.62170	1.92748
-1.00	1.88580	14.51726	16.40306	50.1571	0.81222	1.88573
-0.80	1.83291	13.84507	15.67798	48.6282	0.99987	1.83266
-0.60	1.76897	13.03830	14.80727	46.9917	1.18445	1.76848
-0.40	1.69612	12.12234	13.81846	45.2776	1.36618	1.69528
-0.20	1.61799	11.14121	12.75919	43.5332	1.54570	1.61665
0.	1.53884	10.14633	11.68517	41.8115	1.72392	1.53678
0.20	1.46262	9.18488	10.64751	40.1592	1.90186	1.45949
0.40	1.39240	8.29234	9.68474	38.6095	2.08049	1.38768
0.60	1.33020	7.49028	8.82048	37.1809	2.26065	1.32310
0.80	1.27723	6.78784	8.06507	35.8784	2.44300	1.26650
1.00	1.23414	6.18492	7.41906	34.6976	2.62809	1.21787
1.20	1.20152	5.67538	6.87690	33.6277	2.81646	1.17672
1.40	1.18029	5.24985	6.43014	32.6542	3.00872	1.14226
1.60	1.17220	4.89775	6.06995	31.7609	3.20573	1.11363
1.80	1.18056	4.60862	5.78918	30.9308	3.40881	1.08991
2.00	1.21109	4.37310	5.58418	30.1456	3.61990	1.07029
2.20	1.27342	4.18358	5.45700	29.3854	3.84170	1.05402
2.40	1.38327	4.03487	5.41814	28.6272	4.07763	1.04047

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TABLE H (Continued)

9500°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.94228	52.62166	56.56394	124.9490	-4.86293	3.94282
-6.80	3.91155	52.04046	55.95201	122.5590	-4.66633	3.91222
-6.60	3.86653	51.18848	55.05501	119.9153	-4.47135	3.86735
-6.40	3.80289	49.98315	53.78604	116.9433	-4.27956	3.80386
-6.20	3.71695	48.35493	52.07188	113.5826	-4.08849	3.71810
-6.00	3.60723	46.27521	49.88244	109.8156	-3.90150	3.60854
-5.80	3.47564	43.78007	47.25572	105.6887	-3.71764	3.47709
-5.60	3.32767	40.97365	44.30133	101.3152	-3.53654	3.32923
-5.40	3.17123	38.00562	41.17685	96.8506	-3.35745	3.17285
-5.20	3.01467	35.03487	38.04954	92.4556	-3.17944	3.01632
-5.00	2.86516	32.19751	35.06267	88.2645	-3.00153	2.86680
-4.80	2.72779	29.58975	32.31754	84.3693	-2.82287	2.72938
-4.60	2.60540	27.26595	29.87136	80.8182	-2.64280	2.60692
-4.40	2.49900	25.24518	27.74418	77.6227	-2.46091	2.50042
-4.20	2.40824	23.52133	25.92957	74.7695	-2.27698	2.40957
-4.00	2.33197	22.07265	24.40462	72.2299	-2.09095	2.33320
-3.80	2.26862	20.86927	23.13790	69.9676	-1.90291	2.26975
-3.60	2.21646	19.87851	22.09497	67.9445	-1.71302	2.21749
-3.40	2.17377	19.06808	21.24185	66.1236	-1.52146	2.17470
-3.20	2.13895	18.40796	20.54691	64.4707	-1.32848	2.13980
-3.00	2.11056	17.87114	19.98170	62.9556	-1.13428	2.11132
-2.80	2.08729	17.43369	19.52097	61.5517	-0.93909	2.08797
-2.60	2.06796	17.07434	19.14231	60.2357	-0.74313	2.06857
-2.40	2.05147	16.77385	18.82531	58.9868	-0.54661	2.05201
-2.20	2.03670	16.51390	18.55059	57.7856	-0.34975	2.03718
-2.00	2.02244	16.27592	18.29836	56.6129	-0.15280	2.02286
-1.80	2.00731	16.03963	18.04694	55.4487	0.04394	2.00766
-1.60	1.98960	15.78158	17.77117	54.2702	0.24009	1.98988
-1.40	1.96723	15.47433	17.44156	53.0516	0.43518	1.96743
-1.20	1.93786	15.08725	17.02511	51.7650	0.62865	1.93796
-1.00	1.89915	14.59041	16.48957	50.3843	0.81988	1.89912
-0.80	1.84944	13.96209	15.81154	48.8924	1.00836	1.84923
-0.60	1.78846	13.19788	14.98634	47.2901	1.19380	1.78799
-0.40	1.71779	12.31637	14.03416	45.6009	1.37629	1.71696
-0.20	1.64074	11.35682	12.99756	43.8679	1.55636	1.63939
0.	1.56148	10.36934	11.93082	42.1431	1.73486	1.55940
0.20	1.48416	9.40278	10.88695	40.4754	1.91280	1.48100
0.40	1.41214	8.49597	9.90811	38.9019	2.09120	1.40736
0.60	1.34776	7.67411	9.02187	37.4449	2.27094	1.34057
0.80	1.29248	6.94946	8.24193	36.1127	2.45275	1.28163
1.00	1.24715	6.32412	7.57127	34.9030	2.63724	1.23072
1.20	1.21246	5.79340	7.00587	33.8063	2.82499	1.18745
1.40	1.18939	5.34869	6.53808	32.8090	3.01665	1.15110
1.60	1.17972	4.97970	6.15941	31.8951	3.21310	1.12082
1.80	1.18671	4.67597	5.86268	31.0472	3.41567	1.09569
2.00	1.21608	4.42799	5.64407	30.2470	3.62629	1.07486
2.20	1.27740	4.22789	5.50530	29.4742	3.84765	1.05757
2.40	1.38634	4.07025	5.45659	28.7055	4.08319	1.04315

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TABLE H (Continued)

9600°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.95207	52.32588	56.27795	125.2028	-4.85730	3.95261
-6.80	3.92620	51.84176	55.76796	122.9042	-4.66016	3.92687
-6.60	3.88784	51.12344	55.01128	120.3861	-4.46442	3.88865
-6.40	3.83271	50.09031	53.92302	117.5745	-4.27062	3.83369
-6.20	3.75669	48.66490	52.42159	114.4007	-4.07932	3.75785
-6.00	3.65717	46.79802	50.45518	110.8258	-3.89098	3.65851
-5.80	3.53450	44.49597	48.03047	106.8669	-3.70580	3.53601
-5.60	3.39271	41.83422	45.22693	102.6095	-3.52358	3.39435
-5.40	3.23887	38.94555	42.18442	98.1935	-3.34374	3.24061
-5.20	3.08140	35.98778	39.06918	93.7804	-3.16538	3.08318
-5.00	2.92813	33.10838	36.03650	89.5174	-2.98754	2.92991
-4.80	2.78508	30.42047	33.20555	85.5142	-2.80929	2.78683
-4.60	2.65605	27.99528	30.65132	81.8368	-2.62989	2.65773
-4.40	2.54276	25.86552	28.40828	78.5106	-2.44882	2.54435
-4.20	2.44538	24.03464	26.48002	75.5318	-2.26578	2.44688
-4.00	2.36307	22.48671	24.84978	72.8772	-2.08065	2.36446
-3.80	2.29438	21.19485	23.48923	70.5134	-1.89346	2.29566
-3.60	2.23762	20.12742	22.36504	68.4029	-1.70434	2.23879
-3.40	2.19105	19.25196	21.44301	66.5081	-1.51348	2.19211
-3.20	2.15302	18.53765	20.69067	64.7938	-1.32108	2.15398
-3.00	2.12200	17.95636	20.07836	63.2784	-1.12738	2.12287
-2.80	2.09663	17.48303	19.57966	61.7839	-0.93261	2.09741
-2.60	2.07567	17.09545	19.17112	60.4357	-0.73697	2.07637
-2.40	2.05797	16.77360	18.83157	59.1622	-0.54069	2.05860
-2.20	2.04241	16.49881	18.54122	57.9433	-0.34398	2.04296
-2.00	2.02781	16.25255	18.28035	56.7599	-0.14710	2.02829
-1.80	2.01281	16.01505	18.02786	55.5919	0.04967	2.01321
-1.60	1.99578	15.76385	17.75964	54.4176	0.24598	1.99612
-1.40	1.97477	15.47268	17.44745	53.2120	0.44139	1.97501
-1.20	1.94746	15.11169	17.05914	51.9476	0.63534	1.94759
-1.00	1.91145	14.65028	16.56173	50.5973	0.82723	1.91145
-0.80	1.86483	14.06366	15.92849	49.1407	1.01651	1.86464
-0.60	1.80685	13.34178	15.14863	47.5729	1.20279	1.80640
-0.40	1.73858	12.49650	14.23507	45.9109	1.38606	1.73776
-0.20	1.66290	11.56169	13.22459	44.1927	1.56674	1.66156
0.	1.58386	10.58519	12.16904	42.4686	1.74559	1.58176
0.20	1.50570	9.61677	11.12247	40.7889	1.92361	1.50250
0.40	1.43207	8.69821	10.13028	39.1941	2.10183	1.42723
0.60	1.36562	7.85827	9.22389	37.7103	2.28120	1.35834
0.80	1.30809	7.11241	8.42049	36.3491	2.46251	1.29711
1.00	1.26053	6.46515	7.72568	35.1108	2.64642	1.24393
1.20	1.22376	5.91338	7.13714	33.9875	2.83357	1.19853
1.40	1.19882	5.44940	6.64822	32.9661	3.02462	1.16026
1.60	1.18752	5.06331	6.25082	32.0311	3.22051	1.12829
1.80	1.19311	4.74473	5.93784	31.1651	3.42255	1.10170
2.00	1.22129	4.48400	5.70529	30.3495	3.63269	1.07963
2.20	1.28157	4.27306	5.55464	29.5637	3.85361	1.06127
2.40	1.38956	4.10624	5.49580	28.7841	4.08875	1.04596

TABLE H (Continued)
9700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.96010	52.00358	55.96368	125.4211	-4.85192	3.96064
-6.80	3.93832	51.60043	55.53875	123.1989	-4.65432	3.93899
-6.60	3.90571	50.99611	54.90182	120.7879	-4.45793	3.90652
-6.40	3.85816	50.11443	53.97259	118.1179	-4.26325	3.85915
-6.20	3.79136	48.87493	52.66630	115.1162	-4.07083	3.79254
-6.00	3.70189	47.21367	50.91555	111.7286	-3.88121	3.70326
-5.80	3.58868	45.11097	48.69965	107.9463	-3.69469	3.59025
-5.60	3.45423	42.61260	46.06683	103.8255	-3.51128	3.45596
-5.40	3.30448	39.82914	43.13362	99.4853	-3.33052	3.30633
-5.20	3.14753	36.91089	40.05842	95.0813	-3.15166	3.14945
-5.00	2.99165	34.01185	37.00350	90.7688	-2.97372	2.99360
-4.80	2.84373	31.26017	34.10391	86.6738	-2.79574	2.84565
-4.60	2.70849	28.74388	31.45236	82.8793	-2.61690	2.71035
-4.40	2.58849	26.51044	29.09893	79.4269	-2.43658	2.59026
-4.20	2.48448	24.57428	27.05876	76.3232	-2.25439	2.48615
-4.00	2.39598	22.92657	25.32255	73.5523	-2.07015	2.39753
-3.80	2.32175	21.54441	23.86616	71.0844	-1.88381	2.32319
-3.60	2.26018	20.39783	22.65801	68.8833	-1.69549	2.26149
-3.40	2.20952	19.45469	21.66421	66.9113	-1.50533	2.21072
-3.20	2.16807	18.68357	20.85164	65.1326	-1.31356	2.16916
-3.00	2.13425	18.05537	20.18962	63.5140	-1.12038	2.13523
-2.80	2.10662	17.54395	19.65057	62.0263	-0.92604	2.10750
-2.60	2.08388	17.12608	19.20996	60.6437	-0.73076	2.08467
-2.40	2.06484	16.78095	18.84579	59.3434	-0.53474	2.06555
-2.20	2.04836	16.48940	18.53776	58.1048	-0.33822	2.04899
-2.00	2.03325	16.23281	18.26606	56.9084	-0.14144	2.03380
-1.80	2.01821	15.99177	18.00998	55.7345	0.05534	2.01868
-1.60	2.00169	15.74463	17.74632	54.5617	0.25177	2.00208
-1.40	1.98180	15.46626	17.44805	53.3659	0.44743	1.98209
-1.20	1.95630	15.12772	17.08401	52.1203	0.64181	1.95648
-1.00	1.92278	14.69828	16.62106	50.7973	0.83430	1.92282
-0.80	1.87910	14.15085	16.02996	49.3741	1.02432	1.87895
-0.60	1.82414	13.47053	15.29467	47.8406	1.21143	1.82372
-0.40	1.75843	12.66268	14.42111	46.2074	1.39550	1.75763
-0.20	1.68440	11.75534	13.43974	44.5071	1.57682	1.68306
0.	1.60588	10.79322	12.39910	42.7873	1.75608	1.60377
0.20	1.52716	9.82622	11.35338	41.0990	1.93426	1.52392
0.40	1.45212	8.89856	10.35068	39.4855	2.11237	1.44723
0.60	1.38374	8.04243	9.42617	37.9767	2.29143	1.37637
0.80	1.32403	7.27653	8.60056	36.5877	2.47227	1.31293
1.00	1.27426	6.60798	7.88224	35.3212	2.65563	1.25749
1.20	1.23540	6.03541	7.27081	34.1712	2.84218	1.20995
1.40	1.20857	5.55215	6.76072	33.1257	3.03264	1.16973
1.60	1.19560	5.14881	6.34441	32.1694	3.22796	1.13602
1.80	1.19976	4.81515	6.01492	31.2849	3.42947	1.10794
2.00	1.22671	4.54144	5.76815	30.4535	3.63911	1.08458
2.20	1.28593	4.31941	5.60534	29.6544	3.85959	1.06513
2.40	1.39295	4.14316	5.53611	28.8636	4.09431	1.04889

TABLE H (Continued)

9800°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.96670	51.66152	55.62822	125.6106	-4.84674	3.96723
-6.80	3.94835	51.32566	55.27402	123.4519	-4.64876	3.94901
-6.60	3.92065	50.81786	54.73851	121.1318	-4.45182	3.92147
-6.40	3.87978	50.06787	53.94765	118.5851	-4.25637	3.88078
-6.20	3.82141	48.99591	52.81732	115.7391	-4.06295	3.82260
-6.00	3.74158	47.52881	51.27039	112.5297	-3.87212	3.74298
-5.80	3.63807	45.62575	49.26382	108.9264	-3.68430	3.63969
-5.60	3.51185	43.30390	46.81575	104.9574	-3.49964	3.51365
-5.40	3.36752	40.64807	44.01559	100.7169	-3.31786	3.36947
-5.20	3.21252	37.79494	41.00746	96.3484	-3.13833	3.21457
-5.00	3.05527	34.89966	37.95494	92.0100	-2.96012	3.05737
-4.80	2.90339	32.10228	35.00567	87.8408	-2.78227	2.90548
-4.60	2.76250	29.50700	32.26950	83.9411	-2.60387	2.76454
-4.40	2.63605	27.17682	29.81287	80.3685	-2.42422	2.63801
-4.20	2.52545	25.13837	27.66382	77.1422	-2.24284	2.52731
-4.00	2.43068	23.39121	25.82188	74.2544	-2.05945	2.43241
-3.80	2.35075	21.91745	24.26819	71.6803	-1.87397	2.35236
-3.60	2.28416	20.68962	22.97378	69.3857	-1.68645	2.28564
-3.40	2.22920	19.67633	21.90554	67.3336	-1.49702	2.23056
-3.20	2.18414	18.84589	21.03004	65.4873	-1.30589	2.18537
-3.00	2.14734	18.16841	20.31575	63.8128	-1.11327	2.14845
-2.80	2.11728	17.61671	19.73399	62.2793	-0.91940	2.11828
-2.60	2.09261	17.16654	19.25915	60.8600	-0.72449	2.09351
-2.40	2.07210	16.79625	18.86835	59.5309	-0.52876	2.07290
-2.20	2.05456	16.48610	18.54066	58.2706	-0.33246	2.05528
-2.00	2.03882	16.21724	18.25606	57.0593	-0.13580	2.03944
-1.80	2.02358	15.97049	17.99407	55.8771	0.06095	2.02413
-1.60	2.00738	15.72486	17.73224	54.7033	0.25745	2.00783
-1.40	1.98839	15.45625	17.44464	53.5144	0.45333	1.98875
-1.20	1.96447	15.13673	17.10120	52.2845	0.64807	1.96471
-1.00	1.93321	14.73581	16.66903	50.9858	0.84111	1.93330
-0.80	1.89233	14.22483	16.11717	49.5935	1.03182	1.89222
-0.60	1.84035	13.58478	15.42514	48.0936	1.21973	1.83996
-0.40	1.77732	12.81498	14.59230	46.4904	1.40459	1.77654
-0.20	1.70517	11.93738	13.64255	44.8106	1.58659	1.70385
0.	1.62746	10.99279	12.62025	43.0985	1.76634	1.62534
0.20	1.54846	10.03042	11.57887	41.4049	1.94472	1.54519
0.40	1.47224	9.09640	10.56863	39.7755	2.12280	1.46728
0.60	1.40207	8.22608	9.62815	38.2437	2.30160	1.39461
0.80	1.34026	7.44147	8.78173	36.8279	2.48201	1.32903
1.00	1.28832	6.75236	8.04068	35.5340	2.66485	1.27137
1.20	1.24737	6.15932	7.40669	34.3575	2.85082	1.22168
1.40	1.21862	5.65685	6.87548	33.2877	3.04070	1.17949
1.60	1.20397	5.23617	6.44014	32.3098	3.23544	1.14402
1.80	1.20666	4.88725	6.09392	31.4066	3.43641	1.11440
2.00	1.23235	4.60034	5.83269	30.5591	3.64556	1.08972
2.20	1.29047	4.36699	5.65746	29.7463	3.86557	1.06914
2.40	1.39650	4.18110	5.57760	28.9440	4.09987	1.05193

TABLE H (Continued)

9900°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.97212	51.30513	55.27725	125.7769	-4.84174	3.97265
-6.80	3.95666	51.02510	54.98176	123.6710	-4.64344	3.95732
-6.60	3.93315	50.59860	54.53175	121.4274	-4.44602	3.93396
-6.40	3.89809	49.96209	53.86018	118.9872	-4.24991	3.89909
-6.20	3.84731	49.03909	52.88640	116.2800	-4.05561	3.84851
-6.00	3.77655	47.75189	51.52844	113.2365	-3.86367	3.77797
-5.80	3.68270	46.04375	49.72644	109.8099	-3.67460	3.68435
-5.60	3.56531	43.90608	47.47139	106.0024	-3.48867	3.56718
-5.40	3.42753	41.39620	44.82373	101.8816	-3.30578	3.42958
-5.20	3.27586	38.63199	41.90785	97.5735	-3.12544	3.27804
-5.00	3.11855	35.76405	38.88260	93.2331	-2.94681	3.12080
-4.80	2.96370	32.94041	35.90412	89.0091	-2.76893	2.96598
-4.60	2.81785	30.28000	33.09785	85.0176	-2.59085	2.82009
-4.40	2.68530	27.86156	30.54686	81.3326	-2.41177	2.68747
-4.20	2.56824	25.72501	28.29325	77.9870	-2.23113	2.57030
-4.00	2.46715	23.87960	26.34675	74.9828	-2.04857	2.46908
-3.80	2.38138	22.31355	24.69494	72.3009	-1.86394	2.38318
-3.60	2.30960	21.00271	23.31231	69.9104	-1.67723	2.31126
-3.40	2.25015	19.91700	22.16715	67.7753	-1.48855	2.25166
-3.20	2.20128	19.02485	21.22613	65.8585	-1.29809	2.20266
-3.00	2.16130	18.29575	20.45705	64.1252	-1.10605	2.16256
-2.80	2.12866	17.70159	19.83024	62.5435	-0.91266	2.12979
-2.60	2.10192	17.21712	19.31903	61.0851	-0.71815	2.10293
-2.40	2.07979	16.81981	18.89960	59.7251	-0.52275	2.08070
-2.20	2.06106	16.48927	18.55033	58.4412	-0.32667	2.06187
-2.00	2.04455	16.20631	18.25085	57.2129	-0.13017	2.04526
-1.80	2.02898	15.95182	17.98080	56.0205	0.06651	2.02960
-1.60	2.01292	15.70536	17.71828	54.8433	0.26306	2.01344
-1.40	1.99464	15.44371	17.43836	53.6587	0.45910	1.99506
-1.20	1.97208	15.14000	17.11208	52.4415	0.65416	1.97237
-1.00	1.94285	14.76425	16.70710	51.1640	0.84767	1.94298
-0.80	1.90459	14.28681	16.19140	49.8002	1.03904	1.90451
-0.60	1.85552	13.68537	15.54088	48.3326	1.22770	1.85516
-0.40	1.79523	12.95369	14.74892	46.7598	1.41336	1.79448
-0.20	1.72517	12.10760	13.83278	45.1028	1.59607	1.72386
0.	1.64854	11.18340	12.83194	43.4016	1.77634	1.64642
0.20	1.56953	10.22879	11.79831	41.7060	1.95500	1.56624
0.40	1.49236	9.29117	10.78353	40.0635	2.13311	1.48735
0.60	1.42057	8.40879	9.82936	38.5107	2.31170	1.41302
0.80	1.35675	7.60690	8.96366	37.0696	2.49174	1.34540
1.00	1.30268	6.89810	8.20079	35.7489	2.67407	1.28556
1.20	1.25965	6.28502	7.54467	34.5462	2.85949	1.23373
1.40	1.22898	5.76347	6.99245	33.4522	3.04878	1.18954
1.60	1.21260	5.32541	6.53801	32.4525	3.24295	1.15229
1.80	1.21381	4.96108	6.17489	31.5303	3.44338	1.12109
2.00	1.23820	4.66076	5.89897	30.6664	3.65203	1.09505
2.20	1.29520	4.41589	5.71109	29.8397	3.87157	1.07330
2.40	1.40020	4.22015	5.62035	29.0255	4.10543	1.05510

TABLE H (Continued)
10,000°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.97659	50.93854	54.91513	125.9243	-4.83689	3.97711
-6.80	3.96354	50.70473	54.66827	123.8620	-4.63832	3.96419
-6.60	3.94358	50.34649	54.29007	121.6827	-4.44051	3.94438
-6.40	3.91356	49.80706	53.72062	119.3336	-4.24383	3.91455
-6.20	3.86953	49.01499	52.88452	116.7488	-4.04874	3.87073
-6.00	3.80714	47.89178	51.69892	113.8572	-3.85580	3.80858
-5.80	3.72267	46.36982	50.09249	110.6005	-3.66555	3.72436
-5.60	3.61445	44.41871	48.03316	106.9591	-3.47836	3.61638
-5.40	3.48415	42.06853	45.55268	102.9736	-3.29430	3.48629
-5.20	3.33707	39.41448	42.75155	98.7483	-3.11303	3.33938
-5.00	3.18099	36.59700	39.77799	94.4298	-2.93384	3.18340
-4.80	3.02430	33.76751	36.79181	90.1716	-2.75578	3.02675
-4.60	2.87425	31.05740	33.93165	86.1033	-2.57788	2.87669
-4.40	2.73608	28.56077	31.29685	82.3154	-2.39927	2.73845
-4.20	2.61275	26.33170	28.94445	78.8553	-2.21930	2.61502
-4.00	2.50536	24.39025	26.89561	75.7360	-2.03753	2.50750
-3.80	2.41365	22.73191	25.14556	72.9456	-1.85373	2.41565
-3.60	2.33651	21.33672	23.67324	70.4572	-1.66783	2.33836
-3.40	2.27238	20.17662	22.44900	68.2363	-1.47992	2.27407
-3.20	2.21951	19.22052	21.44003	66.2464	-1.29014	2.22106
-3.00	2.17618	18.43755	20.61373	64.4516	-1.09870	2.17759
-2.80	2.14078	17.79880	19.93958	62.8191	-0.90583	2.14205
-2.60	2.11181	17.27806	19.38988	61.3194	-0.71174	2.11296
-2.40	2.08794	16.85191	18.93985	59.9264	-0.51668	2.08896
-2.20	2.06789	16.49923	18.56713	58.6169	-0.32087	2.06881
-2.00	2.05048	16.20042	18.25090	57.3699	-0.12455	2.05129
-1.80	2.03443	15.93632	17.97075	56.1652	0.07204	2.03514
-1.60	2.01837	15.68685	17.70521	54.9825	0.26860	2.01897
-1.40	2.00062	15.42960	17.43022	53.7998	0.46476	2.00110
-1.20	1.97919	15.13870	17.11789	52.5923	0.66009	1.97955
-1.00	1.95177	14.78488	16.73665	51.3331	0.85403	1.95196
-0.80	1.91593	14.33801	16.25394	49.9953	1.04598	1.91591
-0.60	1.86967	13.77316	15.64284	48.5583	1.23537	1.86936
-0.40	1.81217	13.07921	14.89137	47.0162	1.42180	1.81145
-0.20	1.74436	12.26593	14.01029	45.3836	1.60524	1.74306
0.	1.66906	11.36463	13.03370	43.6961	1.78607	1.66694
0.20	1.59031	10.42075	12.01106	42.0017	1.96508	1.58700
0.40	1.51242	9.48231	10.99473	40.3490	2.14327	1.50736
0.60	1.43918	8.59009	10.02927	38.7773	2.32171	1.43154
0.80	1.37347	7.77247	9.14595	37.3124	2.50142	1.36199
1.00	1.31733	7.04495	8.36228	35.9657	2.68329	1.30002
1.20	1.27223	6.41234	7.68457	34.7373	2.86817	1.24607
1.40	1.23963	5.87193	7.11155	33.6190	3.05689	1.19987
1.60	1.22151	5.41648	6.63799	32.5975	3.25050	1.16080
1.80	1.22119	5.03665	6.25784	31.6560	3.45038	1.12800
2.00	1.24427	4.72276	5.96703	30.7754	3.65851	1.10056
2.20	1.30011	4.46616	5.76628	29.9345	3.87758	1.07761
2.40	1.40407	4.26039	5.66446	29.1083	4.11099	1.05838

TABLE H (Continued)

10,100°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.98028	50.56566	54.54594	126.0563	-4.83217	3.98079
-6.80	3.96924	50.37009	54.33933	124.0301	-4.63337	3.96988
-6.60	3.95228	50.06891	54.02118	121.9046	-4.43523	3.95307
-6.40	3.92658	49.61200	53.53858	119.6331	-4.23806	3.92756
-6.20	3.88849	48.93381	52.82230	117.1549	-4.04230	3.88969
-6.00	3.83373	47.95784	51.79157	114.4001	-3.84846	3.83518
-5.80	3.75817	46.61016	50.36833	111.3034	-3.65710	3.75989
-5.60	3.65918	44.84314	48.50232	107.8275	-3.46869	3.66116
-5.40	3.53702	42.66143	46.19845	103.9880	-3.28344	3.53925
-5.20	3.39565	40.13532	43.53097	99.8649	-3.10116	3.39807
-5.00	3.24208	37.39008	40.63215	95.5909	-2.92126	3.24464
-4.80	3.08469	34.57557	37.66026	91.3196	-2.74287	3.08732
-4.60	2.93133	31.83249	34.76382	87.1912	-2.56501	2.93397
-4.40	2.78810	29.26934	32.05744	83.3116	-2.38677	2.79069
-4.20	2.65879	26.95474	29.61354	79.7434	-2.20739	2.66129
-4.00	2.54519	24.92063	27.46582	76.5116	-2.02636	2.54756
-3.80	2.44750	23.17085	25.61834	73.6129	-1.84336	2.44971
-3.60	2.36487	21.69061	24.05547	71.0251	-1.65827	2.36692
-3.40	2.29588	20.45452	22.75040	68.7164	-1.47113	2.29777
-3.20	2.23883	19.43250	21.67133	66.6506	-1.28206	2.24056
-3.00	2.19198	18.59358	20.78557	64.7918	-1.09124	2.19356
-2.80	2.15366	17.90822	20.06188	63.1061	-0.89890	2.15509
-2.60	2.12232	17.34933	19.47166	61.5629	-0.70527	2.12361
-2.40	2.09656	16.89258	18.98915	60.1349	-0.51057	2.09772
-2.20	2.07508	16.51610	18.59118	58.7980	-0.31504	2.07611
-2.00	2.05664	16.19978	18.25642	57.5304	-0.11892	2.05756
-1.80	2.03999	15.92430	17.96429	56.3117	0.07755	2.04079
-1.60	2.02376	15.66983	17.69360	55.1215	0.27408	2.02445
-1.40	2.00637	15.41463	17.42099	53.9383	0.47033	2.00693
-1.20	1.98588	15.13376	17.11964	52.7380	0.66587	1.98631
-1.00	1.96005	14.79877	16.75883	51.4942	0.86019	1.96031
-0.80	1.92644	14.37947	16.30591	50.1796	1.05268	1.92647
-0.60	1.88286	13.84897	15.73183	48.7716	1.24274	1.88259
-0.40	1.82812	13.19189	15.02002	47.2596	1.42993	1.82744
-0.20	1.76270	12.41224	14.17494	45.6527	1.61410	1.76142
0.	1.68895	11.53602	13.22497	43.9815	1.79554	1.68684
0.20	1.61072	10.60568	12.21640	42.2913	1.97494	1.60738
0.40	1.53235	9.66921	11.20155	40.6312	2.15328	1.52724
0.60	1.45784	8.76946	10.22730	39.0431	2.33163	1.45012
0.80	1.39037	7.93782	9.32818	37.5560	2.51105	1.37875
1.00	1.33221	7.19269	8.52491	36.1844	2.69250	1.31472
1.20	1.28508	6.54121	7.82629	34.9307	2.87685	1.25867
1.40	1.25054	5.98225	7.23279	33.7884	3.06502	1.21047
1.60	1.23067	5.50953	6.74020	32.7450	3.25806	1.16956
1.80	1.22880	5.11415	6.34295	31.7840	3.45740	1.13512
2.00	1.25054	4.78658	6.03712	30.8866	3.66502	1.10626
2.20	1.30521	4.51812	5.82333	30.0312	3.88360	1.08208
2.40	1.40810	4.30215	5.71025	29.1927	4.11655	1.06179

TABLE H (Continued)
 10,200°K

LOG p/p_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.98333	50.18878	54.17211	126.1758	-4.82755	3.98384
-6.80	3.97398	50.02488	53.99886	124.1795	-4.62857	3.97461
-6.60	3.95955	49.77143	53.73098	122.0991	-4.43015	3.96034
-6.40	3.93755	49.38448	53.32203	119.8934	-4.23257	3.93853
-6.20	3.90466	48.80480	52.70946	117.5075	-4.03622	3.90586
-6.00	3.85676	47.95975	51.81651	114.8747	-3.84158	3.85822
-5.80	3.78955	46.77288	50.56243	111.9263	-3.64921	3.79128
-5.60	3.69964	45.18397	48.88356	108.6120	-3.45964	3.70167
-5.40	3.58606	43.17514	46.76120	104.9247	-3.27318	3.58835
-5.20	3.45133	40.79122	44.74255	100.9196	-3.08981	3.45386
-5.00	3.30147	38.13821	41.43968	96.7112	-2.90909	3.30418
-4.80	3.14457	35.35937	38.50394	92.4480	-2.73024	3.14738
-4.60	2.98887	32.60093	35.58980	88.2774	-2.55229	2.99172
-4.40	2.84122	29.98420	32.82542	84.3184	-2.37430	2.84403
-4.20	2.70631	27.59228	30.29859	80.6497	-2.19542	2.70903
-4.00	2.58663	25.46981	28.05644	77.3091	-2.01507	2.58923
-3.80	2.48293	23.63009	26.11302	74.3027	-1.83284	2.48538
-3.60	2.39471	22.06450	24.45920	71.6146	-1.64855	2.39699
-3.40	2.32071	20.75109	23.07179	69.2159	-1.46218	2.32281
-3.20	2.25931	19.66128	21.92058	67.0720	-1.27382	2.26124
-3.00	2.20876	18.76439	20.97316	65.1467	-1.08365	2.21052
-2.80	2.16736	18.03043	20.19779	63.4054	-0.89187	2.16896
-2.60	2.13350	17.43153	19.56503	61.8164	-0.69871	2.13495
-2.40	2.10572	16.94248	19.04821	60.3515	-0.50440	2.10702
-2.20	2.08268	16.54066	18.62334	58.9854	-0.30918	2.08385
-2.00	2.06311	16.20540	18.26851	57.6956	-0.11328	2.06415
-1.80	2.04575	15.91717	17.96292	56.4614	0.08305	2.04666
-1.60	2.02927	15.65630	17.68557	55.2622	0.27954	2.03005
-1.40	2.01211	15.40167	17.41378	54.0769	0.47585	2.01277
-1.20	1.99246	15.12931	17.12177	52.8824	0.67159	1.99296
-1.00	1.96812	14.81172	16.77985	51.6526	0.86625	1.96845
-0.80	1.93667	14.41900	16.35567	50.3604	1.05926	1.93677
-0.60	1.89580	13.92286	15.81866	48.9814	1.24999	1.89558
-0.40	1.84397	13.30413	15.14810	47.5011	1.43795	1.84333
-0.20	1.78118	12.56117	14.34230	45.9230	1.62291	1.77993
0.	1.70931	11.71401	13.42332	44.2718	1.80502	1.70720
0.20	1.63190	10.80144	12.43334	42.5898	1.98489	1.62855
0.40	1.55329	9.87054	11.42383	40.9255	2.16345	1.54813
0.60	1.47765	8.96586	10.44351	39.3231	2.34177	1.46984
0.80	1.40845	8.12173	9.53018	37.8147	2.52094	1.39669
1.00	1.34825	7.35964	8.70789	36.4182	2.70197	1.33056
1.20	1.29900	6.68927	7.98826	35.1387	2.88581	1.27231
1.40	1.26241	6.11132	7.37373	33.9715	3.07340	1.22198
1.60	1.24067	5.62066	6.86133	32.9051	3.26586	1.17911
1.80	1.23714	5.20897	6.44611	31.9236	3.46467	1.14291
2.00	1.25742	4.86696	6.12438	31.0083	3.67168	1.11250
2.20	1.31083	4.58589	5.89672	30.1373	3.88975	1.08697
2.40	1.41257	4.35905	5.77163	29.2857	4.12221	1.06552

TABLE H (Continued)
10,300°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.98586	49.81011	53.79597	126.2848	-4.82304	3.98636
-6.80	3.97792	49.67243	53.65035	124.3133	-4.62391	3.97854
-6.60	3.96562	49.45879	53.42441	122.2703	-4.42525	3.96640
-6.40	3.94678	49.13088	53.07766	120.1202	-4.22732	3.94775
-6.20	3.91839	48.63576	52.55415	117.8136	-4.03045	3.91959
-6.00	3.87660	47.90585	51.78245	115.2883	-3.83511	3.87806
-5.80	3.81707	46.86509	50.68216	112.4752	-3.64183	3.81882
-5.60	3.73591	45.44489	49.18081	109.3150	-3.45117	3.73797
-5.40	3.63108	43.60898	47.24006	105.7818	-3.26353	3.63344
-5.20	3.50373	41.37730	44.88103	101.9065	-3.07903	3.50636
-5.00	3.35866	38.83388	42.19254	97.7823	-2.89740	3.36151
-4.80	3.20341	36.11062	39.31403	93.5478	-2.71795	3.20640
-4.60	3.04639	33.35507	36.40146	89.3533	-2.53978	3.04944
-4.40	2.89508	30.69899	33.59407	85.3291	-2.36190	2.89812
-4.20	2.75502	28.23938	30.99440	81.5690	-2.18344	2.75799
-4.00	2.62950	26.03416	28.66366	78.1246	-2.00369	2.63235
-3.80	2.51985	24.10706	26.62691	75.0124	-1.82219	2.52254
-3.60	2.42596	22.45658	24.88254	72.2238	-1.63868	2.42848
-3.40	2.34682	21.06504	23.41186	69.7338	-1.45308	2.34915
-3.20	2.28091	19.90596	22.18687	67.5096	-1.26545	2.28305
-3.00	2.22650	18.94931	21.17581	65.5155	-1.07594	2.22846
-2.80	2.18186	18.16487	20.34673	63.7164	-0.88474	2.18364
-2.60	2.14533	17.52412	19.66946	62.0795	-0.69207	2.14695
-2.40	2.11540	17.00103	19.11643	60.5756	-0.49817	2.11685
-2.20	2.09067	16.57215	18.66282	59.1784	-0.30328	2.09197
-2.00	2.06983	16.21622	18.28605	57.8646	-0.10763	2.07099
-1.80	2.05162	15.91334	17.96496	56.6128	0.08853	2.05265
-1.60	2.03471	15.64387	17.67857	55.4024	0.28494	2.03560
-1.40	2.01759	15.38707	17.40466	54.2125	0.48127	2.01834
-1.20	1.99852	15.11976	17.11827	53.0204	0.67715	1.99911
-1.00	1.97537	14.81534	16.79071	51.8007	0.87208	1.97577
-0.80	1.94574	14.44435	16.39009	50.5266	1.06552	1.94591
-0.60	1.90725	13.97765	15.88491	49.1723	1.25685	1.90710
-0.40	1.85810	13.39315	15.25125	47.7204	1.44551	1.85751
-0.20	1.79784	12.68422	14.48206	46.1692	1.63119	1.79663
0.	1.72792	11.86549	13.59341	44.5383	1.81396	1.72583
0.20	1.65153	10.97148	12.62302	42.8660	1.99432	1.64818
0.40	1.57293	10.04790	11.62082	41.2000	2.17315	1.56773
0.60	1.49642	9.14034	10.63676	39.5859	2.35149	1.48853
0.80	1.42572	8.28568	9.71140	38.0587	2.53047	1.41383
1.00	1.36368	7.50829	8.87197	36.6394	2.71115	1.34580
1.20	1.31245	6.82038	8.13283	35.3357	2.89452	1.28550
1.40	1.27393	6.22450	7.49843	34.1448	3.08158	1.23316
1.60	1.25040	5.71668	6.96709	33.0564	3.27349	1.18841
1.80	1.24528	5.28929	6.53457	32.0552	3.47170	1.15051
2.00	1.26416	4.93327	6.19743	31.1224	3.67824	1.11860
2.20	1.31633	4.63995	5.95628	30.2364	3.89580	1.09177
2.40	1.41696	4.40250	5.81946	29.3718	4.12779	1.06920

TABLE H (Continued)
10,400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.98797	49.43144	53.41941	126.3856	-4.81861	3.98846
-6.80	3.98120	49.31551	53.29671	124.4346	-4.61935	3.98182
-6.60	3.97070	49.13514	53.10584	122.4231	-4.42050	3.97148
-6.40	3.95456	48.85706	52.81162	120.3199	-4.22227	3.95552
-6.20	3.93007	48.43434	52.36441	118.0813	-4.02497	3.93126
-6.00	3.89367	47.80509	51.69876	115.6500	-3.82901	3.89512
-5.80	3.84113	46.89577	50.73690	112.9590	-3.63491	3.84289
-5.60	3.76827	45.63327	49.40154	109.9435	-3.44322	3.77036
-5.40	3.67218	43.96680	47.63899	106.5628	-3.25444	3.67460
-5.20	3.55273	41.89366	45.44639	102.8252	-3.06880	3.55545
-5.00	3.41341	39.47435	42.88777	98.8012	-2.88618	3.41639
-4.80	3.26095	36.82533	40.08628	94.6150	-2.70602	3.26411
-4.60	3.10365	34.09102	37.19467	90.4151	-2.52749	3.10691
-4.40	2.94950	31.41062	34.36012	86.3408	-2.34962	2.95278
-4.20	2.80485	28.89401	31.69886	82.4996	-2.17146	2.80807
-4.00	2.67376	26.61258	29.28634	78.9573	-1.99224	2.67687
-3.80	2.55824	24.60136	27.15960	75.7420	-1.81143	2.56120
-3.60	2.45866	22.86694	25.32560	72.8531	-1.62867	2.46143
-3.40	2.37427	21.39676	23.77103	70.2706	-1.44384	2.37684
-3.20	2.30369	20.16706	22.47076	67.9643	-1.25694	2.30607
-3.00	2.24526	19.14892	21.39418	65.8992	-1.06810	2.24744
-2.80	2.19722	18.31218	20.50940	64.0399	-0.87749	2.19920
-2.60	2.15787	17.62778	19.78565	62.3530	-0.68534	2.15967
-2.40	2.12564	17.06893	19.19457	60.8081	-0.49188	2.12727
-2.20	2.09909	16.61140	18.71049	59.3779	-0.29734	2.10055
-2.00	2.07687	16.23327	18.31014	58.0384	-0.10196	2.07817
-1.80	2.05769	15.91420	17.97189	56.7674	0.09401	2.05884
-1.60	2.04023	15.63446	17.67468	55.5441	0.29031	2.04123
-1.40	2.02301	15.37361	17.39662	54.3477	0.48663	2.02386
-1.20	2.00435	15.10912	17.11346	53.1558	0.68261	2.00503
-1.00	1.98219	14.81527	16.79746	51.9438	0.87778	1.98268
-0.80	1.95419	14.46318	16.41738	50.6851	1.07160	1.95443
-0.60	1.91791	14.02330	15.94121	49.3532	1.26346	1.91782
-0.40	1.87133	13.47119	15.34252	47.9282	1.45278	1.87079
-0.20	1.81363	12.79581	14.60944	46.4039	1.63918	1.81245
0.	1.74578	12.00639	13.75217	44.7946	1.82262	1.74370
0.20	1.67062	11.13296	12.80357	43.1343	2.00351	1.66726
0.40	1.59225	10.21912	11.81137	41.4691	2.18264	1.58702
0.60	1.51507	9.31101	10.82608	39.8457	2.36107	1.50711
0.80	1.44303	8.44771	9.89075	38.3016	2.53991	1.43102
1.00	1.37924	7.65641	9.03565	36.8608	2.72027	1.36117
1.20	1.32610	6.95185	8.27794	35.5338	2.90321	1.29889
1.40	1.28567	6.33855	7.62422	34.3196	3.08976	1.24456
1.60	1.26036	5.81383	7.07419	33.2093	3.28113	1.19792
1.80	1.25362	5.37081	6.62443	32.1882	3.47880	1.15831
2.00	1.27108	5.00076	6.27185	31.2379	3.68481	1.12488
2.20	1.32200	4.69510	6.01710	30.3367	3.90186	1.09671
2.40	1.42149	4.44693	5.86842	29.4591	4.13338	1.07298

TABLE H (Continued)
10,500°K

LOG p/p_0	γ	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.98973	49.05397	53.04369	126.4794	-4.81427	3.99022
-6.80	3.98395	48.95611	52.94005	124.5454	-4.61490	3.98456
-6.60	3.97497	48.80351	52.77848	122.5600	-4.41588	3.97573
-6.40	3.96111	48.56738	52.52849	120.4963	-4.21739	3.96207
-6.20	3.93997	48.20638	52.14635	118.3157	-4.01972	3.94116
-6.00	3.90831	47.66449	51.57279	115.9662	-3.82322	3.90976
-5.80	3.86207	46.87216	50.73423	113.3840	-3.62839	3.86384
-5.60	3.79695	45.75481	49.55176	110.5023	-3.43578	3.79906
-5.40	3.70940	44.25123	47.96063	107.2694	-3.24591	3.71186
-5.20	3.59816	42.33896	45.93711	103.6736	-3.05913	3.60096
-5.00	3.46537	40.05495	43.52032	99.7624	-2.87546	3.46847
-4.80	3.31674	37.49694	40.81368	95.6422	-2.69450	3.32006
-4.60	3.16023	34.80189	37.96212	91.4556	-2.51549	3.16369
-4.40	3.00413	32.11296	35.11709	87.3471	-2.33749	3.00765
-4.20	2.85550	29.55121	32.40671	83.4365	-2.15953	2.85898
-4.00	2.71922	27.20134	29.92056	79.8035	-1.98077	2.72260
-3.80	2.59800	25.11029	27.70829	76.4888	-1.80057	2.60123
-3.60	2.49272	23.29371	25.78643	73.5007	-1.61854	2.49577
-3.40	2.40300	21.74496	24.14796	70.8252	-1.43446	2.40584
-3.20	2.32764	20.44373	22.77137	68.4353	-1.24830	2.33026
-3.00	2.26503	19.36267	21.62770	66.2972	-1.06014	2.26744
-2.80	2.21344	18.47196	20.68540	64.3756	-0.87014	2.21564
-2.60	2.17112	17.74224	19.91337	62.6367	-0.67853	2.17312
-2.40	2.13647	17.14604	19.28251	61.0489	-0.48551	2.13828
-2.20	2.10798	16.65834	18.76632	59.5841	-0.29135	2.10960
-2.00	2.08426	16.25655	18.34080	58.2171	-0.09626	2.08571
-1.80	2.06399	15.91984	17.98384	56.9254	0.09950	2.06528
-1.60	2.04585	15.62831	17.67416	55.6876	0.29566	2.04698
-1.40	2.02841	15.36168	17.39008	54.4828	0.49194	2.02937
-1.20	2.01000	15.09797	17.10797	53.2891	0.68798	2.01078
-1.00	1.98866	14.81229	16.80094	52.0826	0.88335	1.98923
-0.80	1.96209	14.47645	16.43854	50.8368	1.07751	1.96241
-0.60	1.92783	14.06078	15.98861	49.5250	1.26986	1.92781
-0.40	1.88370	13.53905	15.42275	48.1252	1.45980	1.88323
-0.20	1.82854	12.89639	14.72493	46.6273	1.64689	1.82742
0.	1.76287	12.13683	13.89970	45.0404	1.83101	1.76082
0.20	1.68912	11.28565	12.97477	43.3941	2.01245	1.68577
0.40	1.61121	10.38381	11.99503	41.7321	2.19194	1.60595
0.60	1.53358	9.47740	11.01098	40.1017	2.37049	1.52554
0.80	1.46035	8.60738	10.06773	38.5425	2.54925	1.44822
1.00	1.39492	7.80356	9.19848	37.0815	2.72934	1.37667
1.20	1.33992	7.08329	8.42322	35.7319	2.91187	1.31245
1.40	1.29762	6.45313	7.75076	34.4949	3.09794	1.25615
1.60	1.27052	5.91181	7.18233	33.3628	3.28877	1.20763
1.80	1.26217	5.45326	6.71543	32.3219	3.48591	1.16620
2.00	1.27819	5.06918	6.34737	31.3539	3.69138	1.13131
2.20	1.32784	4.75110	6.07894	30.4373	3.90793	1.10179
2.40	1.42617	4.49212	5.91829	29.5464	4.13896	1.07688

TABLE H (Continued)
10,600°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99120	48.67879	52.66998	126.5674	-4.80999	3.99168
-6.80	3.98625	48.59595	52.58220	124.6476	-4.61053	3.98685
-6.60	3.97855	48.46658	52.44513	122.6841	-4.41137	3.97931
-6.40	3.96664	48.26576	52.23240	120.6537	-4.21267	3.96758
-6.20	3.94838	47.95729	51.90567	118.5224	-4.01467	3.94956
-6.00	3.92085	47.49090	51.41175	116.2436	-3.81771	3.92229
-5.80	3.88024	46.80194	50.68218	113.7578	-3.62224	3.88200
-5.60	3.82225	45.81674	49.63899	110.9983	-3.42877	3.82437
-5.40	3.74291	44.46730	48.21021	107.9060	-3.23788	3.74541
-5.20	3.63999	42.71494	46.35492	104.4528	-3.04999	3.64286
-5.00	3.51434	40.57409	44.08842	100.6637	-2.86525	3.51754
-4.80	3.37049	38.12165	41.49214	96.6254	-2.68340	3.37397
-4.60	3.21582	35.48306	38.69888	92.4699	-2.50380	3.21948
-4.40	3.05872	32.80164	35.86036	88.3438	-2.32555	3.06247
-4.20	2.90679	30.20750	33.11429	84.3760	-2.14768	2.91053
-4.00	2.76575	27.79795	30.56370	80.6608	-1.96928	2.76941
-3.80	2.63903	25.63228	28.27131	77.2512	-1.78965	2.64255
-3.60	2.52813	23.73595	26.26408	74.1658	-1.60830	2.53146
-3.40	2.43302	22.10919	24.54722	71.3973	-1.42495	2.43614
-3.20	2.35276	20.73582	23.08858	68.9225	-1.23952	2.35565
-3.00	2.28583	19.59057	21.87641	66.7097	-1.05205	2.28850
-2.80	2.23054	18.64437	20.87491	64.7239	-0.86268	2.23297
-2.60	2.18512	17.86772	20.05284	62.9309	-0.67162	2.18733
-2.40	2.14790	17.23258	19.38048	61.2983	-0.47908	2.14991
-2.20	2.11735	16.71323	18.83058	59.7971	-0.28530	2.11915
-2.00	2.09201	16.28637	18.37838	58.4012	-0.09053	2.09363
-1.80	2.07056	15.93065	18.00121	57.0871	0.10499	2.07200
-1.60	2.05163	15.62590	17.67753	55.8333	0.30101	2.05290
-1.40	2.03383	15.35192	17.38575	54.6186	0.49777	2.03497
-1.20	2.01554	15.08721	17.10274	53.4214	0.69330	2.01644
-1.00	1.99486	14.80759	16.80244	52.2182	0.88882	1.99554
-0.80	1.96955	14.48565	16.45520	50.9832	1.08327	1.96996
-0.60	1.93716	14.09185	16.02901	49.6896	1.27607	1.93722
-0.40	1.89538	13.59867	15.49404	48.3135	1.46660	1.89497
-0.20	1.84274	12.98789	14.83063	46.8416	1.65437	1.84167
0.	1.77933	12.25866	14.03799	45.2780	1.83916	1.77732
0.20	1.70718	11.43130	13.13848	43.6475	2.02119	1.70384
0.40	1.62995	10.54363	12.17358	41.9913	2.20108	1.62466
0.60	1.55205	9.64111	11.19316	40.3562	2.37981	1.54395
0.80	1.47781	8.76617	10.24397	38.7838	2.55852	1.46555
1.00	1.41084	7.95115	9.36199	37.3040	2.73838	1.39240
1.20	1.35404	7.21600	8.57004	35.9327	2.92054	1.32630
1.40	1.30988	6.56941	7.87929	34.6732	3.10614	1.26805
1.60	1.28099	6.01163	7.29262	33.5195	3.29645	1.21763
1.80	1.27099	5.53752	6.80851	32.4586	3.49305	1.17453
2.00	1.28555	5.13927	6.42487	31.4728	3.69800	1.13797
2.20	1.33390	4.80858	6.14248	30.5405	3.91403	1.10706
2.40	1.43105	4.53857	5.96962	29.6361	4.14456	1.08093

TABLE H (Continued)
10,700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.99243	48.30671	52.29914	126.6507	-4.80578	3.99291
-6.80	3.98818	48.23640	52.27458	124.7427	-4.60624	3.98878
-6.60	3.98156	48.12645	52.10801	122.7976	-4.40696	3.98231
-6.40	3.97130	47.95537	51.92667	120.7950	-4.20808	3.97224
-6.20	3.95553	47.69154	51.64707	118.7058	-4.00981	3.95669
-6.00	3.93158	47.29017	51.22175	116.4879	-3.81245	3.93302
-5.80	3.89596	46.69193	50.58789	114.0868	-3.61640	3.89772
-5.60	3.84448	45.82582	49.67030	111.4377	-3.42218	3.84661
-5.40	3.77292	44.62026	48.39318	108.4773	-3.23034	3.77544
-5.20	3.67825	43.02392	46.70217	105.1644	-3.04138	3.68118
-5.00	3.56016	41.03076	44.59092	101.5036	-2.85555	3.56346
-4.80	3.42192	38.69588	42.11780	97.5603	-2.67275	3.42555
-4.60	3.27009	36.12972	39.39980	93.4529	-2.49246	3.27394
-4.40	3.11292	33.47191	36.58483	89.3252	-2.31385	3.11691
-4.20	2.95846	30.85879	33.81725	85.3140	-2.13595	2.96248
-4.00	2.81317	28.39927	31.21244	81.5259	-1.95782	2.81712
-3.80	2.68125	26.16505	28.84629	78.0272	-1.77868	2.68507
-3.60	2.56481	24.19217	26.75698	74.8470	-1.59796	2.56845
-3.40	2.46430	22.48851	24.95281	71.9860	-1.41532	2.46772
-3.20	2.37904	21.04276	23.42180	69.4256	-1.23061	2.38222
-3.00	2.30768	19.83233	22.14001	67.1365	-1.04384	2.31061
-2.80	2.24854	18.82925	21.07779	65.0848	-0.85512	2.25122
-2.60	2.19987	18.00414	20.20401	63.2357	-0.66462	2.20232
-2.40	2.15996	17.32855	19.48851	61.5566	-0.47257	2.16218
-2.20	2.12722	16.77610	18.90332	60.0172	-0.27920	2.12922
-2.00	2.10016	16.32278	18.42294	58.5907	-0.08476	2.10196
-1.80	2.07740	15.94670	18.02409	57.2528	0.11050	2.07900
-1.60	2.05758	15.62733	17.68491	55.9814	0.30634	2.05900
-1.40	2.03930	15.34449	17.38380	54.7553	0.50247	2.04053
-1.20	2.02099	15.07700	17.09800	53.5528	0.69855	2.02201
-1.00	2.00081	14.80137	16.80219	52.3510	0.89419	2.00160
-0.80	1.97659	14.49095	16.46754	51.1246	1.08890	1.97710
-0.60	1.94588	14.11653	16.06241	49.8467	1.28210	1.94603
-0.40	1.90630	13.64970	15.55600	48.4925	1.47317	1.90597
-0.20	1.85612	13.06948	14.92559	47.0455	1.66159	1.85511
0.	1.79502	12.37047	14.16549	45.5053	1.84705	1.79306
0.20	1.72461	11.56805	13.29267	43.8922	2.02968	1.72128
0.40	1.64825	10.69645	12.34470	42.2437	2.21001	1.64295
0.60	1.57030	9.79995	11.37025	40.6061	2.38897	1.56214
0.80	1.49520	8.92203	10.41723	39.0225	2.56768	1.48283
1.00	1.42682	8.09734	9.52416	37.5253	2.74735	1.40819
1.20	1.36830	7.34833	8.71667	36.1331	2.92916	1.34030
1.40	1.32231	6.68603	8.00835	34.8518	3.11432	1.28012
1.60	1.29165	6.11217	7.40382	33.6767	3.30413	1.22781
1.80	1.28001	5.62268	6.90270	32.5958	3.50020	1.18295
2.00	1.29310	5.21031	6.50340	31.5920	3.70461	1.14480
2.20	1.34013	4.86698	6.20711	30.6439	3.92013	1.11246
2.40	1.43607	4.58587	6.02194	29.7258	4.15016	1.08510

TABLE H (Continued)
10,800°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99347	47.93832	51.93179	126.7301	-4.80163	3.99394
-6.80	3.98981	47.87844	51.86825	124.8319	-4.60202	3.99040
-6.60	3.98411	47.78477	51.76888	122.9020	-4.40265	3.98484
-6.40	3.97525	47.63877	51.61402	120.9232	-4.20361	3.97618
-6.20	3.96159	47.41283	51.37443	118.8695	-4.00511	3.96275
-6.00	3.94077	47.06731	51.00808	116.7041	-3.80740	3.94220
-5.80	3.90956	46.54832	50.45788	114.3770	-3.61085	3.91131
-5.60	3.86396	45.78869	49.65264	111.8268	-3.41594	3.86609
-5.40	3.79965	44.71585	48.51549	108.9886	-3.22323	3.80219
-5.20	3.71304	43.26933	46.98238	105.8113	-3.03325	3.71602
-5.00	3.60276	41.42535	45.02811	102.2819	-2.84634	3.60615
-4.80	3.47080	39.21727	42.68807	98.4442	-2.66255	3.47456
-4.60	3.32274	36.73791	40.06065	94.4001	-2.48148	3.32678
-4.40	3.16647	34.11938	37.28585	90.2872	-2.30240	3.17068
-4.20	3.01029	31.50119	34.51148	86.2465	-2.12437	3.01457
-4.00	2.86132	29.00226	31.86357	82.3959	-1.94641	2.86556
-3.80	2.72453	26.70649	29.43101	78.8145	-1.76769	2.72866
-3.60	2.60271	24.66099	27.26370	75.5430	-1.58755	2.60666
-3.40	2.49681	22.88210	25.37891	72.5906	-1.40559	2.50054
-3.20	2.40649	21.36414	23.77063	69.9442	-1.22159	2.40997
-3.00	2.33057	20.08778	22.41835	67.5776	-1.03551	2.33379
-2.80	2.26745	19.02660	21.29406	65.4582	-0.84744	2.27041
-2.60	2.21540	18.15162	20.36702	63.5514	-0.65752	2.21810
-2.40	2.17267	17.43412	19.60679	61.8238	-0.46598	2.17512
-2.20	2.13761	16.84714	18.98475	60.2446	-0.27305	2.13983
-2.00	2.10871	16.36601	18.47472	58.7860	-0.07896	2.11071
-1.80	2.08454	15.96824	18.05279	57.4228	0.11603	2.08633
-1.60	2.06373	15.63294	17.69666	56.1324	0.31168	2.06530
-1.40	2.04486	15.33980	17.38466	54.8933	0.50769	2.04623
-1.20	2.02640	15.06790	17.09430	53.6840	0.70375	2.02755
-1.00	2.00857	14.79433	16.80090	52.4817	0.89948	2.00748
-0.80	1.98326	14.49317	16.47643	51.2616	1.09440	1.98388
-0.60	1.95406	14.13571	16.08977	49.9973	1.28796	1.95431
-0.40	1.91652	13.69299	15.60951	48.6630	1.47954	1.91628
-0.20	1.86871	13.14178	15.01049	47.2398	1.66857	1.86778
0.	1.80994	12.47258	14.28252	45.7231	1.85469	1.80803
0.20	1.74139	11.69588	13.43727	44.1284	2.03792	1.73809
0.40	1.66609	10.84200	12.50808	42.4897	2.21872	1.66078
0.60	1.58828	9.95352	11.54179	40.8519	2.39795	1.58006
0.80	1.51250	9.07452	10.58702	39.2591	2.57672	1.50001
1.00	1.44283	8.24170	9.68454	37.7461	2.75624	1.42402
1.20	1.38267	7.48005	8.86272	36.3343	2.93774	1.35440
1.40	1.33491	6.80269	8.13760	35.0317	3.12248	1.29235
1.60	1.30249	6.21318	7.51567	33.8356	3.31180	1.23817
1.80	1.28921	5.70853	6.99774	32.7350	3.50735	1.19155
2.00	1.30081	5.28210	6.58291	31.7133	3.71124	1.15177
2.20	1.34652	4.92612	6.27263	30.7493	3.92623	1.11800
2.40	1.44124	4.63384	6.07509	29.8174	4.15576	1.08937

TABLE H (Continued)

10,900°K						
LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99435	47.57408	51.56842	126.8059	-4.79753	3.99481
-6.80	3.99118	47.52292	51.51411	124.9159	-4.59787	3.99177
-6.60	3.98625	47.44290	51.42915	122.9989	-4.39841	3.98699
-6.40	3.97860	47.31801	51.29661	121.0400	-4.19924	3.97951
-6.20	3.96676	47.12423	51.09098	119.0165	-4.00054	3.96790
-6.00	3.94863	46.82656	50.77519	116.8960	-3.80253	3.95004
-5.80	3.92128	46.37644	50.29772	114.6333	-3.60555	3.92303
-5.60	3.88095	45.71127	49.59222	112.1710	-3.41004	3.88308
-5.40	3.82335	44.75951	48.58285	109.4445	-3.21653	3.82591
-5.20	3.74448	43.45474	47.19922	106.3963	-3.02558	3.74750
-5.00	3.64207	41.75851	45.40058	102.9983	-2.83762	3.64555
-4.80	3.51692	39.68354	43.20046	99.2741	-2.65281	3.52080
-4.60	3.37346	37.30332	40.67679	95.3067	-2.47090	3.37768
-4.40	3.21907	34.73899	37.95801	91.2241	-2.29125	3.22346
-4.20	3.06197	32.12980	35.19178	87.1687	-2.11297	3.06653
-4.00	2.90994	29.60279	32.51273	83.2665	-1.93509	2.91449
-3.80	2.76869	27.25337	30.02206	79.6100	-1.75670	2.77314
-3.60	2.64170	25.14003	27.78173	76.2515	-1.57709	2.64598
-3.40	2.53048	23.28827	25.81875	73.2095	-1.39577	2.53454
-3.20	2.43506	21.69877	24.13383	70.4772	-1.21246	2.43886
-3.00	2.35449	20.35612	22.71060	68.0323	-1.02708	2.35801
-2.80	2.28727	19.23587	21.52314	65.8437	-0.83966	2.29052
-2.60	2.23170	18.30977	20.54147	63.8775	-0.65034	2.23468
-2.40	2.18602	17.54902	19.73504	62.0999	-0.45932	2.18873
-2.20	2.14854	16.92619	19.07473	60.4793	-0.26683	2.15099
-2.00	2.11769	16.41598	18.53367	58.9870	-0.07311	2.11990
-1.80	2.09201	15.99531	18.08732	57.5972	0.12159	2.09398
-1.60	2.07009	15.64284	17.71293	56.2865	0.31707	2.07184
-1.40	2.05053	15.33811	17.38864	55.0330	0.51289	2.05206
-1.20	2.03181	15.06035	17.09216	53.8152	0.70891	2.03311
-1.00	2.01220	14.78717	16.79937	52.6108	0.90470	2.01324
-0.80	1.98965	14.49335	16.48300	51.3954	1.09980	1.99039
-0.60	1.96180	14.15075	16.11256	50.1427	1.29368	1.96216
-0.40	1.92618	13.73019	15.65637	48.8266	1.48572	1.92603
-0.20	1.88067	13.20661	15.08728	47.4260	1.67534	1.87981
0.	1.82425	12.56684	14.39109	45.9378	1.86211	1.82240
0.20	1.75766	11.81663	13.57429	44.3575	2.04596	1.75439
0.40	1.68359	10.98206	12.66565	42.7304	2.22726	1.67828
0.60	1.60612	10.10355	11.70967	41.0943	2.40681	1.59786
0.80	1.52983	9.22531	10.75515	39.4942	2.58567	1.51724
1.00	1.45901	8.38581	9.84482	37.9668	2.76509	1.44002
1.20	1.39729	7.61245	9.00974	36.5362	2.94631	1.36875
1.40	1.34779	6.92067	8.26846	35.2129	3.13065	1.30485
1.60	1.31362	6.31579	7.62941	33.9959	3.31950	1.24881
1.80	1.29869	5.79603	7.09472	32.8754	3.51453	1.20039
2.00	1.30878	5.35547	6.66425	31.8356	3.71789	1.15898
2.20	1.35313	4.98669	6.33982	30.8555	3.93237	1.12373
2.40	1.44661	4.68308	6.12969	29.9095	4.16138	1.09380

TABLE H (Continued)

11,000°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99510	47.21436	51.20946	176.8789	-4.79348	3.99555
-6.80	3.99235	47.17047	51.16282	124.9958	-4.59378	3.99292
-6.60	3.98808	47.10192	51.09000	123.0896	-4.39424	3.98880
-6.40	3.98143	46.99484	50.97628	121.1474	-4.19497	3.98234
-6.20	3.97115	46.82835	50.79951	119.1496	-3.99609	3.97228
-6.00	3.95535	46.57167	50.52702	117.0675	-3.79782	3.95676
-5.80	3.93139	46.18127	50.11266	114.8607	-3.60046	3.93313
-5.60	3.89577	45.59949	49.49526	112.4761	-3.40441	3.89789
-5.40	3.84430	44.75731	48.60160	109.8510	-3.21019	3.84687
-5.20	3.77277	43.58511	47.35788	106.9241	-3.01835	3.77582
-5.00	3.67817	42.03293	45.71110	103.6553	-2.82938	3.68171
-4.80	3.56018	40.09474	43.65492	100.0496	-2.64354	3.56418
-4.60	3.42206	37.82387	41.24593	96.1703	-2.46072	3.42644
-4.40	3.27034	35.32753	38.59787	92.1326	-2.28041	3.27500
-4.20	3.11327	32.74140	35.85467	88.0765	-2.10179	3.11809
-4.00	2.95888	30.19809	33.15697	84.1348	-1.92388	2.96373
-3.80	2.81362	27.80362	30.61725	80.4116	-1.74574	2.81841
-3.60	2.68172	25.62791	28.30963	76.9712	-1.56659	2.68635
-3.40	2.56527	23.70618	26.27146	73.8420	-1.38587	2.56968
-3.20	2.46474	22.04624	24.51098	71.0244	-1.20324	2.46888
-3.00	2.37944	20.63718	23.01661	68.5005	-1.01853	2.38329
-2.80	2.30802	19.45706	21.76508	66.2416	-0.83177	2.31157
-2.60	2.24881	18.47869	20.72749	64.2144	-0.64305	2.25207
-2.40	2.20005	17.67341	19.87346	62.3851	-0.45257	2.20302
-2.20	2.16002	17.01343	19.17345	60.7215	-0.26055	2.16272
-2.00	2.12711	16.47287	18.59999	59.1940	-0.06722	2.12955
-1.80	2.09981	16.02807	18.12788	57.7761	0.12717	2.10199
-1.60	2.07669	15.65721	17.73390	56.4437	0.32236	2.07863
-1.40	2.05633	15.33961	17.39594	55.1746	0.51809	2.05803
-1.20	2.03723	15.05458	17.09181	53.9470	0.71403	2.03869
-1.00	2.01771	14.78011	16.79782	52.7388	0.90985	2.01890
-0.80	1.99577	14.49167	16.48744	51.5261	1.10510	1.99664
-0.60	1.96912	14.16174	16.13085	50.2830	1.29926	1.96959
-0.40	1.93525	13.76112	15.69637	48.9830	1.49173	1.93520
-0.20	1.89192	13.26340	15.15532	47.6037	1.68189	1.89115
0.	1.83781	12.65219	14.49000	46.1333	1.86929	1.83603
0.20	1.77327	11.92870	13.70197	44.5780	2.05377	1.77004
0.40	1.70058	11.11469	12.81527	42.9639	2.23559	1.69528
0.60	1.62363	10.24792	11.87155	41.3316	2.41548	1.61532
0.80	1.54701	9.37228	10.91929	39.7261	2.59449	1.53431
1.00	1.47517	8.52770	10.00287	38.1859	2.77383	1.45600
1.20	1.41199	7.74386	9.15584	36.7377	2.95482	1.38318
1.40	1.36081	7.03848	8.39928	35.3944	3.13879	1.31749
1.60	1.32492	6.41875	7.74366	34.1570	3.32718	1.25960
1.80	1.30834	5.88417	7.19251	33.0169	3.52171	1.20940
2.00	1.31692	5.42961	6.74653	31.9590	3.72455	1.16633
2.20	1.35991	5.04806	6.40796	30.9627	3.93850	1.12960
2.40	1.45213	4.73308	6.18520	30.0025	4.16700	1.09835

TABLE H (Continued)

11,100°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.99573	46.85918	50.85491	126.9495	-4.78948	3.99618
-6.80	3.99334	46.82137	50.81471	125.0721	-4.58974	3.99391
-6.60	3.98963	46.76247	50.75209	123.1751	-4.39014	3.99034
-6.40	3.98385	46.67045	50.65431	121.2470	-4.19077	3.98475
-6.20	3.97491	46.52717	50.50207	119.2710	-3.99175	3.97602
-6.00	3.96112	46.30556	50.26668	117.2218	-3.79326	3.96251
-5.80	3.94012	45.96688	49.90699	115.0635	-3.59557	3.94184
-5.60	3.90867	45.45844	49.36711	112.7473	-3.39905	3.91079
-5.40	3.86278	44.71477	48.57755	110.2135	-3.20418	3.86535
-5.20	3.79813	43.66534	47.46347	107.3993	-3.01151	3.80120
-5.00	3.71117	42.25172	45.96288	104.2557	-2.82157	3.71476
-4.80	3.60056	40.45148	44.05203	100.7710	-2.63471	3.60465
-4.60	3.46837	38.29796	41.76632	96.9890	-2.45095	3.47291
-4.40	3.32021	35.88212	39.20232	93.0095	-2.26991	3.32508
-4.20	3.16397	33.33277	36.49669	88.9669	-2.09084	3.16906
-4.00	3.00794	30.78528	33.79322	84.9980	-1.91281	3.01310
-3.80	2.85921	28.35502	31.21423	81.2172	-1.73483	2.86433
-3.60	2.72269	26.12310	28.84579	77.7006	-1.55608	2.72767
-3.40	2.60115	24.13490	26.73605	74.4872	-1.37591	2.60592
-3.20	2.49552	22.40601	24.90154	71.5854	-1.19392	2.50002
-3.00	2.40543	20.93073	23.33616	68.9822	-1.00988	2.40963
-2.80	2.32970	19.69013	22.01983	66.6518	-0.82378	2.33359
-2.60	2.26673	18.65844	20.92517	64.5622	-0.63568	2.27031
-2.40	2.21478	17.80741	20.02218	62.6797	-0.44575	2.21804
-2.20	2.17209	17.10900	19.28109	60.9715	-0.25420	2.17505
-2.00	2.13700	16.53686	18.67386	59.4074	-0.06127	2.13968
-1.80	2.10798	16.06671	18.17469	57.9600	0.13279	2.11039
-1.60	2.08355	15.67628	17.75983	56.6046	0.32773	2.08570
-1.40	2.06229	15.34458	17.40688	55.3184	0.52327	2.06418
-1.20	2.04271	15.05092	17.09363	54.0796	0.71913	2.04434
-1.00	2.02315	14.77361	16.79676	52.8660	0.91495	2.02449
-0.80	2.00168	14.48873	16.49040	51.6543	1.11032	2.00269
-0.60	1.97605	14.16938	16.14542	50.4188	1.30472	1.97665
-0.40	1.94377	13.78657	15.73034	49.1332	1.49757	1.94384
-0.20	1.90251	13.31286	15.21537	47.7734	1.68825	1.90184
0.	1.85066	12.72913	14.57980	46.3251	1.87625	1.84896
0.20	1.78820	12.03237	13.82057	44.7901	2.06134	1.78503
0.40	1.71703	11.23989	12.95693	43.1903	2.24370	1.71175
0.60	1.64078	10.38648	12.02725	41.5636	2.42397	1.63244
0.80	1.56400	9.51521	11.07921	39.9545	2.60316	1.55121
1.00	1.49128	8.66713	10.15842	38.4032	2.78248	1.47195
1.20	1.42674	7.87405	9.30080	36.9387	2.96327	1.39767
1.40	1.37394	7.15595	8.52990	35.5762	3.14689	1.33025
1.60	1.33637	6.52193	7.85830	34.3188	3.33485	1.27054
1.80	1.31815	5.97285	7.29100	33.1594	3.52889	1.21857
2.00	1.32573	5.50444	6.82967	32.0834	3.73121	1.17384
2.20	1.36683	5.11016	6.47700	31.0708	3.94464	1.13559
2.40	1.45779	4.78380	6.24159	30.0964	4.17262	1.10301

TABLE H (Continued)

11,200°K

LOG p/p_0	γ	F / RT	H / RT	S / R	LOG P (ATM)	Z*
-7.00	3.99628	46.50940	50.50568	127.0184	-4.78553	3.99673
-6.80	3.99419	46.47666	50.47085	125.1458	-4.58575	3.99475
-6.60	3.99095	46.42585	50.41680	123.2563	-4.38611	3.99165
-6.40	3.98592	46.34657	50.33249	121.3402	-4.18665	3.98680
-6.20	3.97811	46.22298	50.20109	119.3827	-3.98751	3.97922
-6.00	3.96606	46.03138	49.99745	117.3617	-3.78882	3.96744
-5.80	3.94764	45.73732	49.68496	115.2451	-3.59085	3.94935
-5.60	3.91988	45.29306	49.21294	112.9888	-3.39391	3.92199
-5.40	3.87902	44.63730	48.51631	110.5367	-3.19846	3.88159
-5.20	3.82074	43.70034	47.52109	107.8261	-3.00503	3.82384
-5.00	3.74113	42.41812	46.15925	104.8018	-2.81418	3.74477
-4.80	3.63797	40.75453	44.39250	101.4382	-2.62632	3.64215
-4.60	3.51218	38.72381	42.23599	97.7602	-2.44161	3.51686
-4.40	3.36832	36.39918	39.76751	93.8507	-2.25977	3.37340
-4.20	3.21376	33.89948	37.11325	89.8351	-2.08017	3.21910
-4.00	3.05687	31.36017	34.41703	85.8520	-1.90191	3.06234
-3.80	2.90520	28.90401	31.80921	82.0230	-1.72401	2.91066
-3.60	2.76444	26.62278	29.38721	78.4368	-1.54558	2.76979
-3.40	2.63800	24.57231	27.21031	75.1430	-1.36591	2.64314
-3.20	2.52733	22.77658	25.30391	72.1585	-1.18452	2.53220
-3.00	2.43242	21.23571	23.66812	69.4762	-1.00114	2.43698
-2.80	2.35229	19.93434	22.28663	67.0737	-0.81569	2.35653
-2.60	2.28546	18.84852	21.13398	64.9205	-0.62821	2.28936
-2.40	2.23019	17.95067	20.18086	62.9833	-0.43884	2.23376
-2.20	2.18472	17.21270	19.39742	61.2291	-0.24779	2.18797
-2.00	2.14736	16.60781	18.75517	59.6270	-0.05526	2.15030
-1.80	2.11651	16.11121	18.22773	58.1488	0.13844	2.11917
-1.60	2.09069	15.70011	17.79080	56.7691	0.33311	2.09306
-1.40	2.06844	15.35319	17.42163	55.4646	0.52846	2.07053
-1.20	2.04827	15.04970	17.09797	54.2133	0.72420	2.05008
-1.00	2.02856	14.76819	16.79675	52.9931	0.92001	2.03007
-0.80	2.00743	14.48528	16.49271	51.7807	1.11546	2.00859
-0.60	1.98269	14.17472	16.15741	50.5512	1.31007	1.98343
-0.40	1.95187	13.80785	15.75973	49.2781	1.50327	1.95206
-0.20	1.91256	13.35654	15.26910	47.9366	1.69443	1.91200
0.	1.86294	12.79934	14.66229	46.5097	1.88302	1.86133
0.20	1.80262	12.12931	13.93192	44.9952	2.06872	1.79950
0.40	1.73308	11.35933	13.09241	43.4109	2.25164	1.72783
0.60	1.65770	10.52081	12.17851	41.7915	2.43232	1.64934
0.80	1.58093	9.65562	11.23655	40.1806	2.61173	1.56805
1.00	1.50748	8.80554	10.31303	38.6196	2.79107	1.48798
1.20	1.44168	8.00434	9.44602	37.1397	2.97169	1.41234
1.40	1.38732	7.27426	8.66158	35.7588	3.15500	1.34325
1.60	1.34808	6.62634	7.97442	34.4817	3.34253	1.28174
1.80	1.32823	6.06292	7.39115	33.3029	3.53609	1.22797
2.00	1.33378	5.58066	6.91444	32.2088	3.73790	1.18156
2.20	1.37399	5.17355	6.54755	31.1798	3.95080	1.14178
2.40	1.46365	4.83567	6.29931	30.1908	4.17825	1.10782

TABLE H (Continued)
11,300°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99676	46.16456	50.16132	127.0855	-4.78161	3.99720
-6.80	3.99491	46.13601	50.13092	125.2167	-4.58181	3.99547
-6.60	3.99208	46.09202	50.08410	123.3336	-4.38212	3.99277
-6.40	3.98768	46.02350	50.01118	121.4276	-4.18260	3.98855
-6.20	3.98086	45.91668	49.89753	119.4858	-3.98335	3.98195
-6.00	3.97031	45.75074	49.72105	117.4889	-3.78450	3.97167
-5.80	3.95412	45.49519	49.44931	115.4084	-3.58627	3.95582
-5.60	3.92963	45.10693	49.03661	113.2045	-3.38897	3.93172
-5.40	3.89327	44.52932	48.42259	110.8250	-3.19301	3.89584
-5.20	3.84087	43.69470	47.53557	108.2088	-2.99889	3.84397
-5.00	3.76823	42.53586	46.30409	105.2971	-2.80718	3.77191
-4.80	3.67247	41.00573	44.67821	102.0527	-2.61836	3.67674
-4.60	3.55342	39.10110	42.65453	98.4834	-2.43267	3.55823
-4.40	3.41453	36.87670	40.29123	94.6539	-2.24999	3.41979
-4.20	3.26245	34.43879	37.70124	90.6782	-2.06978	3.26804
-4.00	3.10544	31.91987	35.02530	86.6929	-1.89120	3.11121
-3.80	2.95146	29.44810	32.39956	82.8263	-1.71329	2.95727
-3.60	2.80687	27.12506	29.93192	79.1779	-1.53510	2.81259
-3.40	2.67575	25.01711	27.69285	75.8081	-1.35588	2.68128
-3.20	2.56013	23.15710	25.71723	72.7431	-1.17506	2.56539
-3.00	2.46039	21.55162	24.01201	69.9823	-0.99232	2.46534
-2.80	2.37580	20.18943	22.56523	67.5071	-0.80751	2.38041
-2.60	2.30501	19.04883	21.35384	65.2892	-0.62065	2.30926
-2.40	2.24631	18.10318	20.34949	63.2960	-0.43185	2.25071
-2.20	2.19795	17.32454	19.52249	61.4944	-0.24130	2.20151
-2.00	2.15820	16.68578	18.84399	59.8529	-0.04923	2.16143
-1.80	2.12544	16.16161	18.28705	58.3426	0.14413	2.12835
-1.60	2.09812	15.72873	17.82685	56.9374	0.33851	2.10072
-1.40	2.07477	15.36547	17.44024	55.6134	0.53365	2.07708
-1.20	2.05391	15.05090	17.10482	54.3483	0.72926	2.05592
-1.00	2.03394	14.76378	16.79771	53.1199	0.92502	2.03562
-0.80	2.01301	14.48115	16.49415	51.9053	1.12052	2.01433
-0.60	1.98899	14.17739	16.16638	50.6799	1.31531	1.98988
-0.40	1.95947	13.82426	15.78373	49.4174	1.50882	1.95979
-0.20	1.92195	13.39322	15.31517	48.0922	1.70042	1.92150
0.	1.87445	12.86093	14.73538	46.6854	1.88955	1.87294
0.20	1.81624	12.21691	14.03315	45.1911	2.07585	1.81320
0.40	1.74842	11.46976	13.21818	43.6228	2.25932	1.74319
0.60	1.67403	10.64732	12.32135	42.0121	2.44044	1.66566
0.80	1.59744	9.78979	11.38723	40.4013	2.62010	1.58449
1.00	1.52342	8.93935	10.46277	38.8324	2.79950	1.50376
1.20	1.45647	8.13147	9.58794	37.3387	2.97998	1.42688
1.40	1.40065	7.39052	8.79117	35.9404	3.16301	1.35620
1.60	1.35980	6.72955	8.08934	34.6444	3.35015	1.29294
1.80	1.33835	6.15237	7.49072	33.4468	3.54325	1.23743
2.00	1.34239	5.65666	6.93905	32.3350	3.74456	1.18935
2.20	1.38122	5.23700	6.61821	31.2897	3.95694	1.14803
2.40	1.46957	4.88776	6.35734	30.2863	4.18387	1.11270

TABLE H (Continued)
11,400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99717	45.82491	49.82208	127.1510	-4.77774	3.99760
-6.80	3.99554	45.79982	49.79536	125.2854	-4.57792	3.99609
-6.60	3.99305	45.76153	49.75458	123.4077	-4.37819	3.99373
-6.40	3.98919	45.70214	49.69133	121.5103	-4.17861	3.99005
-6.20	3.98371	45.60958	49.59279	119.5819	-3.97926	3.98429
-6.00	3.97396	45.46562	49.43958	117.6056	-3.78027	3.97531
-5.80	3.95973	45.24328	49.20301	115.5562	-3.58183	3.96141
-5.60	3.93810	44.90391	48.84201	113.3979	-3.38421	3.94018
-5.40	3.90577	44.39535	48.30112	111.0828	-3.18779	3.90833
-5.20	3.85872	43.65323	47.51195	108.5522	-2.99305	3.86183
-5.00	3.79266	42.60907	46.40174	105.7454	-2.80055	3.79637
-4.80	3.70415	41.20764	44.91178	102.6168	-2.61081	3.70847
-4.60	3.59204	39.43021	43.02225	99.1585	-2.42415	3.59696
-4.40	3.45866	37.31309	40.77175	95.4171	-2.24059	3.46410
-4.20	3.30980	34.94791	38.25772	91.4930	-2.05969	3.31564
-4.00	3.15344	32.46130	35.61474	87.5180	-1.88071	3.15952
-3.80	2.99780	29.98449	32.98229	83.6245	-1.70269	3.00396
-3.60	2.84984	27.62770	30.47754	79.9217	-1.52468	2.85594
-3.40	2.71432	25.46764	28.18196	76.4810	-1.34583	2.72025
-3.20	2.59386	23.54644	26.14031	73.3382	-1.16555	2.59954
-3.00	2.48931	21.87773	24.36704	70.4997	-0.98342	2.49466
-2.80	2.40022	20.45495	22.85516	67.9516	-0.79925	2.40521
-2.60	2.32537	19.25910	21.58446	65.6682	-0.61300	2.32999
-2.40	2.26314	18.26481	20.52796	63.6178	-0.42478	2.26739
-2.20	2.21179	17.44449	19.65628	61.7675	-0.23475	2.21567
-2.00	2.16955	16.77080	18.94035	60.0853	-0.04313	2.17308
-1.80	2.13476	16.21801	18.35277	58.5417	0.14985	2.13795
-1.60	2.10585	15.76233	17.86818	57.1098	0.34393	2.10871
-1.40	2.08133	15.38168	17.46301	55.7651	0.53885	2.08387
-1.20	2.05969	15.05497	17.11466	54.4850	0.73431	2.06191
-1.00	2.03934	14.76104	16.80038	53.2472	0.92999	2.04122
-0.80	2.01851	14.47731	16.49582	52.0291	1.12553	2.02001
-0.60	1.99510	14.17878	16.17388	50.8062	1.32047	1.99615
-0.40	1.96673	13.83769	15.80441	49.5526	1.51425	1.96719
-0.20	1.93089	13.42530	15.35619	48.2424	1.70626	1.93057
0.	1.88545	12.91675	14.80220	46.8547	1.89592	1.88404
0.20	1.82936	12.29838	14.12773	45.3805	2.08280	1.82640
0.40	1.76334	11.57458	13.33792	43.8290	2.26684	1.75816
0.60	1.69010	10.76945	12.45955	42.2285	2.44842	1.68173
0.80	1.61385	9.92111	11.53495	40.6193	2.62837	1.60083
1.00	1.53399	9.07176	10.61115	39.0439	2.80785	1.51958
1.20	1.47142	8.25835	9.72977	37.5375	2.98824	1.44157
1.40	1.41418	7.50735	8.92153	36.1225	3.17101	1.36936
1.60	1.37176	6.83379	8.20555	34.8081	3.35778	1.30438
1.80	1.34873	6.24307	7.59180	33.5917	3.55043	1.24711
2.00	1.35125	5.73396	7.08521	32.4620	3.75124	1.19735
2.20	1.38867	5.30167	6.69033	31.4004	3.96310	1.15448
2.40	1.47571	4.94096	6.41667	30.3824	4.18950	1.11774

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TABLE H (Continued)

11,500°K

LOG ρ/ρ_0	Z	F / RT	H / RT	S / R	LOG P (ATM)	Z*
-7.00	3.99754	45.49058	49.48812	127.2155	-4.77391	3.99796
-6.80	3.99609	45.46830	49.46439	125.3526	-4.57407	3.99663
-6.60	3.99389	45.43480	49.42869	123.4793	-4.37431	3.99457
-6.40	3.99049	45.38312	49.37361	121.5891	-4.17468	3.99135
-6.20	3.98524	45.30272	49.28796	119.6722	-3.97525	3.98631
-6.00	3.97711	45.17760	49.15471	117.7135	-3.77613	3.97844
-5.80	3.96458	44.98389	48.94847	115.6909	-3.57751	3.96624
-5.60	3.94546	44.68706	48.63251	113.5724	-3.37960	3.94753
-5.40	3.91673	44.23949	48.15621	111.3141	-3.18278	3.91927
-5.20	3.87455	43.58054	47.45508	108.8605	-2.98748	3.87765
-5.00	3.81462	42.64221	46.45683	106.1509	-2.79425	3.81835
-4.80	3.73311	41.36350	45.09661	103.1334	-2.60363	3.73749
-4.60	3.62804	39.71256	43.34060	99.7866	-2.41603	3.63306
-4.40	3.50061	37.70790	41.20851	96.1397	-2.23156	3.50622
-4.20	3.35567	35.42510	38.78078	92.2776	-2.04992	3.36174
-4.00	3.20072	32.98222	36.18294	88.3248	-1.87046	3.20709
-3.80	3.04409	30.51104	33.55513	84.4156	-1.69224	3.05060
-3.60	2.89324	28.12900	31.02224	80.6665	-1.51432	2.89973
-3.40	2.75363	25.92272	28.67635	77.1605	-1.33580	2.75998
-3.20	2.62851	23.94387	26.57238	73.9430	-1.15599	2.63460
-3.00	2.51918	22.21365	24.73283	71.0282	-0.97444	2.52495
-2.80	2.42554	20.73074	23.15628	68.4073	-0.79089	2.43095
-2.60	2.34656	19.47933	21.82589	66.0576	-0.60527	2.35158
-2.40	2.28071	18.43566	20.71636	63.9490	-0.41763	2.28533
-2.20	2.22625	17.57269	19.79893	62.0486	-0.22813	2.23048
-2.00	2.18142	16.86304	19.04446	60.3244	-0.03696	2.18527
-1.80	2.14451	16.28059	18.42510	58.7462	0.15563	2.14799
-1.60	2.11392	15.80109	17.91501	57.2863	0.34939	2.11705
-1.40	2.08812	15.40205	17.49017	55.9199	0.54405	2.09091
-1.20	2.06561	15.06215	17.12776	54.6237	0.73935	2.06806
-1.00	2.04481	14.76026	16.80506	53.3754	0.93495	2.04690
-0.80	2.02395	14.47414	16.49810	52.1523	1.13050	2.02565
-0.60	2.00103	14.17934	16.18036	50.9306	1.32555	2.00225
-0.40	1.97368	13.84867	15.82230	49.6845	1.51958	1.97431
-0.20	1.93941	13.45326	15.39268	48.3878	1.71197	1.93924
0.	1.89595	12.96719	14.86315	47.0182	1.90212	1.89466
0.20	1.84197	12.37393	14.21591	45.5639	2.08958	1.83911
0.40	1.77783	11.67385	13.45168	44.0300	2.27419	1.77272
0.60	1.70589	10.88711	12.59299	42.4409	2.45625	1.69752
0.80	1.63013	10.04943	11.67956	40.8350	2.63652	1.61706
1.00	1.55539	9.20263	10.75802	39.2549	2.81614	1.53544
1.20	1.48649	8.38490	9.87139	37.7371	2.99646	1.45640
1.40	1.42793	7.62469	9.05262	36.3063	3.17900	1.38272
1.60	1.38396	6.93907	8.32303	34.9739	3.36542	1.31606
1.80	1.35935	6.33508	7.69442	33.7391	3.55763	1.25704
2.00	1.36035	5.81262	7.17297	32.5915	3.75795	1.20557
2.20	1.39634	5.36766	6.76401	31.5134	3.96929	1.16111
2.40	1.48204	4.99539	6.47743	30.4807	4.19516	1.12294

TABLE H (Continued)
11,600°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99787	45.16162	49.15949	127.2789	-4.77011	3.99829
-6.80	3.99657	45.14156	49.13812	125.4180	-4.57026	3.99710
-6.60	3.99461	45.11202	49.10663	123.5484	-4.37047	3.99528
-6.40	3.99162	45.06686	49.05848	121.6643	-4.17079	3.99246
-6.20	3.98699	44.99681	48.98380	119.7571	-3.97130	3.98804
-6.00	3.97982	44.88782	48.86764	117.8135	-3.77208	3.98115
-5.80	3.96877	44.71879	48.68756	115.8141	-3.57329	3.97042
-5.60	3.95185	44.45890	48.41075	113.7301	-3.37514	3.95391
-5.40	3.92631	44.06494	47.99125	111.5218	-3.17796	3.92884
-5.20	3.88853	43.48034	47.36886	109.1372	-2.98216	3.89162
-5.00	3.83427	42.63881	46.47308	106.5167	-2.78826	3.83801
-4.80	3.75946	41.47582	45.23527	103.6043	-2.59682	3.76388
-4.60	3.66139	39.94879	43.61018	100.3677	-2.40830	3.66650
-4.40	3.54024	38.05973	41.59998	96.8195	-2.22291	3.54599
-4.20	3.39982	35.86739	39.26720	93.0285	-2.04049	3.40610
-4.00	3.24699	33.47888	36.72587	89.1091	-1.86046	3.25364
-3.80	3.09005	31.02400	34.11406	85.1949	-1.68198	3.09691
-3.60	2.93686	28.62562	31.56248	81.4088	-1.50406	2.94375
-3.40	2.79353	26.37960	29.17313	77.8438	-1.32579	2.80030
-3.20	2.66393	24.34724	27.01117	74.5554	-1.14642	2.67047
-3.00	2.54991	22.55777	25.10767	71.5660	-0.96542	2.55612
-2.80	2.45171	21.01562	23.46733	68.8729	-0.78247	2.45755
-2.60	2.36854	19.70865	22.07719	66.4566	-0.59746	2.37397
-2.40	2.29897	18.61507	20.91404	64.2887	-0.41041	2.30399
-2.20	2.24132	17.70865	19.94997	62.3373	-0.22144	2.24592
-2.00	2.19379	16.96212	19.15592	60.5699	-0.03075	2.19799
-1.80	2.15467	16.34906	18.50373	58.9559	0.16144	2.15847
-1.60	2.12231	15.84477	17.96708	57.4670	0.35487	2.12574
-1.40	2.09515	15.42636	17.52151	56.0777	0.54927	2.09821
-1.20	2.07158	15.07223	17.14391	54.7642	0.74438	2.07437
-1.00	2.05031	14.76122	16.81153	53.5041	0.93988	2.05262
-0.80	2.02933	14.47135	16.50067	52.2748	1.13541	2.03122
-0.60	2.00675	14.17863	16.18537	51.0527	1.33055	2.00815
-0.40	1.98028	13.85639	15.83667	49.8122	1.52478	1.98107
-0.20	1.94741	13.47607	15.42348	48.5272	1.71752	1.94739
0.	1.90579	13.01067	14.91647	47.1741	1.90813	1.90464
0.20	1.85386	12.44132	14.29518	45.7386	2.09613	1.85110
0.40	1.79161	11.76464	13.55625	44.2222	2.28130	1.78657
0.60	1.72104	10.99688	12.71792	42.6453	2.46385	1.71270
0.80	1.64592	10.17108	11.81699	41.0441	2.64447	1.63280
1.00	1.57103	9.32828	10.89932	39.4606	2.82424	1.55095
1.20	1.50135	8.50763	10.00898	37.9327	3.00454	1.47102
1.40	1.44155	7.73940	9.18096	36.4873	3.18689	1.39598
1.60	1.39613	7.04263	8.43876	35.1377	3.37298	1.32770
1.80	1.36998	6.42604	7.79601	33.8850	3.56477	1.26697
2.00	1.36948	5.89072	7.26021	32.7200	3.76461	1.21383
2.20	1.40407	5.43343	6.83750	31.6256	3.97545	1.16779
2.40	1.48843	5.04981	6.53824	30.5782	4.20079	1.12819

TABLE H (Continued)

11,700°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99817	44.83811	48.83628	127.3417	-4.76635	3.99859
-6.80	3.99699	44.81974	48.81673	125.4824	-4.56648	3.99751
-6.60	3.99524	44.79346	48.78870	123.6158	-4.36667	3.99590
-6.40	3.99259	44.75380	48.74639	121.7368	-4.16696	3.99347
-6.20	3.98850	44.69257	48.68106	119.8378	-3.96740	3.98954
-6.00	3.98217	44.59740	48.57958	117.9072	-3.76809	3.98348
-5.80	3.97241	44.44969	48.42209	115.9278	-3.56916	3.97404
-5.60	3.95743	44.22192	48.17935	113.8739	-3.37080	3.95946
-5.40	3.93471	43.87504	47.80975	111.7094	-3.17330	3.93722
-5.20	3.90088	43.35674	47.25762	109.3863	-2.97705	3.90397
-5.00	3.85185	42.60335	46.45520	106.8472	-2.78255	3.85559
-4.80	3.78337	41.54866	45.33203	104.0336	-2.59034	3.78782
-4.60	3.69219	40.14175	43.83394	100.9044	-2.40093	3.69738
-4.40	3.57755	38.36978	41.94733	97.4577	-2.21463	3.58343
-4.20	3.44216	36.27449	39.71665	93.7453	-2.03138	3.44864
-4.00	3.29215	33.95015	37.24229	89.8698	-1.85074	3.29908
-3.80	3.13559	31.52197	34.65756	85.9614	-1.67190	3.14278
-3.60	2.98062	29.11637	32.09699	82.1474	-1.49391	2.98790
-3.40	2.83396	26.83748	29.67144	78.5301	-1.31582	2.84116
-3.20	2.70012	24.75613	27.45624	75.1751	-1.13683	2.70711
-3.00	2.58149	22.90994	25.49143	72.1134	-0.95634	2.58817
-2.80	2.47875	21.30966	23.78841	69.3486	-0.77398	2.48504
-2.60	2.39134	19.94726	22.33859	66.8654	-0.58957	2.39721
-2.40	2.31798	18.80331	21.12128	64.6376	-0.40311	2.32341
-2.20	2.25702	17.85268	20.10971	62.6340	-0.21468	2.26202
-2.00	2.20671	17.06836	19.27507	60.8222	-0.02447	2.21127
-1.80	2.16528	16.42374	18.58902	59.1712	0.16730	2.16942
-1.60	2.13106	15.89372	18.02478	57.6522	0.36038	2.13479
-1.40	2.10245	15.45500	17.55746	56.2388	0.55451	2.10580
-1.20	2.07793	15.08570	17.16363	54.9071	0.74942	2.08088
-1.00	2.05591	14.76455	16.82046	53.6342	0.94479	2.05846
-0.80	2.03470	14.46977	16.50447	52.3975	1.14029	2.03682
-0.60	2.01236	14.17783	16.19019	51.1736	1.33549	2.01397
-0.40	1.98664	13.86260	15.84924	49.9374	1.52991	1.98762
-0.20	1.95507	13.49576	15.45083	48.6627	1.72295	1.95521
0.	1.91520	13.04972	14.96492	47.3251	1.91400	1.91419
0.20	1.86528	12.50348	14.36876	45.9080	2.10253	1.86264
0.40	1.80496	11.85020	13.65516	44.4092	2.28825	1.80000
0.60	1.73588	11.10218	12.83805	42.8456	2.47130	1.72757
0.80	1.66153	10.28948	11.95102	41.2505	2.65229	1.64839
1.00	1.58666	9.45206	11.03872	39.6653	2.83227	1.56645
1.20	1.51630	8.62968	10.14599	38.1287	3.01257	1.48574
1.40	1.45535	7.85434	9.30970	36.6696	3.19475	1.40941
1.60	1.40851	7.14701	8.55552	35.3034	3.38054	1.33955
1.80	1.38084	6.51813	7.89897	34.0331	3.57193	1.27713
2.00	1.37885	5.97008	7.34893	32.8508	3.77130	1.22230
2.20	1.41202	5.50044	6.91246	31.7401	3.98162	1.17467
2.40	1.49503	5.10541	6.60044	30.6780	4.20643	1.13360

TABLE H (Continued)
11,800°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	3.99846	44.52003	48.51848	127.4038	-4.76263	3.99887
-6.80	3.99737	44.50284	48.50021	125.5455	-4.56274	3.99789
-6.60	3.99580	44.47919	48.47498	123.6813	-4.36291	3.99645
-6.40	3.99344	44.44413	48.43756	121.8066	-4.16317	3.99426
-6.20	3.98981	44.39040	48.38021	119.9146	-3.96357	3.99084
-6.00	3.98421	44.30709	48.29130	117.9951	-3.76418	3.98550
-5.80	3.97556	44.17773	48.15329	116.0328	-3.56512	3.97718
-5.60	3.96227	43.97784	47.94012	114.0050	-3.36657	3.96429
-5.40	3.94205	43.67222	47.61427	111.8790	-3.16880	3.94455
-5.20	3.91177	43.21277	47.12454	109.6106	-2.97215	3.91484
-5.00	3.86750	42.53908	46.40658	107.1451	-2.77709	3.87124
-4.80	3.80497	41.58481	45.38978	104.4234	-2.58417	3.80945
-4.60	3.72049	40.29293	44.01343	101.3978	-2.39392	3.72574
-4.40	3.61245	38.63774	42.25019	98.0532	-2.20672	3.61845
-4.20	3.48252	36.64437	40.12689	94.4254	-2.02262	3.48919
-4.00	3.33595	34.39283	37.72878	90.6033	-1.84130	3.34314
-3.80	3.18044	32.00137	35.18181	86.7112	-1.66203	3.18797
-3.60	3.02429	29.59785	32.62213	82.8786	-1.48390	3.03196
-3.40	2.87473	27.29341	30.16814	79.2163	-1.30597	2.88237
-3.20	2.73693	25.16814	27.90507	75.7995	-1.12726	2.74438
-3.00	2.61384	23.26833	25.88217	72.6682	-0.94724	2.62099
-2.80	2.50658	21.61146	24.11804	69.8330	-0.76544	2.51335
-2.60	2.41490	20.19410	22.60900	67.2830	-0.58162	2.42123
-2.40	2.33768	18.99960	21.33728	64.9947	-0.39573	2.34355
-2.20	2.27335	18.00419	20.27754	62.9380	-0.20785	2.27875
-2.00	2.22015	17.18132	19.40147	61.0809	-0.01814	2.22510
-1.80	2.17632	16.50430	18.68062	59.3919	0.17321	2.18082
-1.60	2.14015	15.94768	18.08784	57.8416	0.36593	2.14422
-1.40	2.11002	15.48778	17.59780	56.4033	0.55977	2.11367
-1.20	2.08436	15.10239	17.18675	55.0522	0.75446	2.08760
-1.00	2.06161	14.77011	16.83172	53.7654	0.94969	2.06442
-0.80	2.04007	14.46931	16.50938	52.5202	1.14513	2.04242
-0.60	2.01785	14.17682	16.19468	51.2932	1.34037	2.01968
-0.40	1.99277	13.86706	15.85983	50.0598	1.53494	1.99394
-0.20	1.96235	13.51205	15.47440	48.7939	1.72826	1.96267
0.	1.92413	13.08378	15.00791	47.4704	1.91972	1.92327
0.20	1.87614	12.55953	14.43567	46.0707	2.10875	1.87364
0.40	1.81776	11.92924	13.74700	44.5894	2.29502	1.81289
0.60	1.75023	11.20138	12.95161	43.0397	2.47858	1.74197
0.80	1.67679	10.40283	12.07962	41.4519	2.65996	1.66363
1.00	1.60206	9.57207	11.17413	39.8662	2.84016	1.58175
1.20	1.52116	8.74923	10.28040	38.3221	3.02050	1.50038
1.40	1.46916	7.96782	9.43698	36.8503	3.20255	1.42286
1.60	1.42096	7.25072	8.67167	35.4683	3.38806	1.35147
1.80	1.39181	6.61008	8.00189	34.1808	3.57906	1.28739
2.00	1.38834	6.04962	7.43796	32.9814	3.77798	1.23089
2.20	1.42009	5.56783	6.98792	31.8545	3.98780	1.18166
2.40	1.50174	5.16148	6.66323	30.7776	4.21208	1.13913

TABLE H (Continued)
11,900°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99873	44.20751	48.20624	127.4656	-4.75893	3.99914
-6.80	3.99772	44.19102	48.18874	125.6079	-4.55904	3.99823
-6.60	3.99629	44.16941	48.16570	123.7455	-4.35920	3.99694
-6.40	3.99418	44.13818	48.13235	121.8744	-4.15943	3.99499
-6.20	3.99095	44.09083	48.08177	119.9884	-3.95978	3.99197
-6.00	3.98598	44.01769	48.00367	118.0784	-3.76032	3.98725
-5.80	3.97831	43.90418	47.88248	116.1309	-3.56115	3.97991
-5.60	3.96650	43.72852	47.69502	114.1257	-3.36245	3.96850
-5.40	3.94848	43.45905	47.40753	112.0334	-3.16442	3.95097
-5.20	3.92137	43.05179	46.97317	109.8137	-2.96741	3.92443
-5.00	3.88145	42.44994	46.33140	107.4146	-2.77186	3.88519
-4.80	3.82446	41.58830	45.41276	104.7778	-2.57828	3.82895
-4.60	3.74643	40.40572	44.15215	101.8511	-2.38724	3.75173
-4.40	3.64501	38.86568	42.51068	98.6082	-2.19915	3.65111
-4.20	3.52087	36.97764	40.49851	95.0693	-2.01420	3.52771
-4.00	3.37831	34.80643	38.18474	91.3089	-1.83215	3.38575
-3.80	3.22451	32.46119	35.68570	87.4430	-1.65239	3.23237
-3.60	3.06777	30.06895	33.13672	83.6015	-1.47403	3.07584
-3.40	2.91579	27.74653	30.66233	79.9017	-1.29610	2.92388
-3.20	2.77432	25.58277	28.35709	76.4282	-1.11770	2.78225
-3.00	2.64694	23.63270	26.27964	73.2305	-0.93811	2.65458
-2.80	2.53522	21.92101	24.45623	70.3262	-0.75684	2.54248
-2.60	2.43925	20.44933	22.88858	67.7097	-0.57360	2.44606
-2.40	2.35810	19.20417	21.56227	65.3605	-0.38829	2.36444
-2.20	2.29031	18.16344	20.45375	63.2499	-0.20096	2.29615
-2.00	2.23414	17.30127	19.53541	61.3463	-0.01174	2.23950
-1.80	2.18783	16.59100	18.77883	59.6182	0.17916	2.19271
-1.60	2.14962	16.00693	18.15655	58.0357	0.37151	2.15404
-1.40	2.11788	15.52498	17.64286	56.5714	0.56505	2.12185
-1.20	2.09101	15.12263	17.21364	55.2000	0.75950	2.09454
-1.00	2.06743	14.77832	16.84575	53.8983	0.95458	2.07052
-0.80	2.04548	14.47047	16.51595	52.6434	1.14994	2.04808
-0.60	2.02329	14.17628	16.19958	51.4123	1.34521	2.02535
-0.40	1.99873	13.87067	15.86939	50.1805	1.53990	2.00011
-0.20	1.96936	13.52606	15.49541	48.9220	1.73347	1.96987
0.	1.93267	13.11423	15.04690	47.6113	1.92531	1.93199
0.20	1.88658	12.61100	14.49758	46.2283	2.11482	1.88422
0.40	1.83014	12.00344	13.83358	44.7646	2.30163	1.82538
0.60	1.76425	11.29620	13.06046	43.2294	2.48571	1.75605
0.80	1.69185	10.51283	12.20468	41.6501	2.66751	1.67868
1.00	1.61740	9.69001	11.30742	40.0653	2.84796	1.59699
1.20	1.54608	8.86792	10.41401	38.5150	3.02838	1.51508
1.40	1.48312	8.08140	9.56451	37.0314	3.21032	1.43646
1.60	1.43361	7.35516	8.78877	35.6342	3.39558	1.36360
1.80	1.40301	6.70315	8.10616	34.3299	3.58621	1.29787
2.00	1.39807	6.13046	7.52853	33.1134	3.78468	1.23969
2.20	1.42839	5.63654	7.06493	31.9703	3.99399	1.18885
2.40	1.50867	5.21884	6.72750	30.8786	4.21774	1.14482

TABLE H (Continued)

12,000°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99901	43.90062	47.89963	127.5276	-4.75527	3.99942
-6.80	3.99604	43.88431	47.88236	125.6698	-4.55537	3.99855
-6.60	3.99674	43.86422	47.86095	123.8089	-4.35551	3.99737
-6.40	3.99483	43.83617	47.83095	121.9406	-4.15572	3.99563
-6.20	3.99194	43.79416	47.78610	120.0596	-3.95603	3.99295
-6.00	3.98752	43.72975	47.71727	118.1578	-3.75652	3.98878
-5.80	3.98070	43.62993	47.61063	116.2231	-3.55726	3.98228
-5.60	3.97020	43.47533	47.44552	114.2375	-3.35841	3.97217
-5.40	3.95413	43.23752	47.19165	112.1748	-3.16017	3.95659
-5.20	3.92985	42.87645	46.80630	109.9980	-2.96284	3.93289
-5.00	3.89387	42.33916	46.23303	107.6587	-2.76684	3.89759
-4.80	3.84201	41.56245	45.40447	105.1001	-2.57266	3.84651
-4.60	3.77013	40.48286	44.25299	102.2669	-2.38086	3.77547
-4.40	3.67526	39.05517	42.73038	99.1238	-2.19193	3.68146
-4.20	3.55716	37.27432	40.83148	95.6768	-2.00612	3.56416
-4.00	3.41911	35.18972	38.60883	91.9852	-1.82331	3.42679
-3.80	3.26764	32.89951	36.16715	88.1549	-1.64298	3.27581
-3.60	3.11096	30.52762	33.63858	84.3142	-1.46432	3.11941
-3.40	2.95702	28.19508	31.15210	80.5844	-1.28637	2.96555
-3.20	2.81222	25.99261	28.81083	77.0599	-1.10817	2.82064
-3.00	2.68073	24.00206	26.68279	73.7992	-0.92897	2.68888
-2.80	2.56463	22.23763	24.80227	70.8276	-0.74819	2.57240
-2.60	2.46437	20.71251	23.17688	68.1451	-0.56551	2.47168
-2.40	2.37925	19.41675	21.79600	65.7346	-0.38078	2.38607
-2.20	2.30792	18.33029	20.63821	63.5694	-0.19400	2.31422
-2.00	2.24870	17.42813	19.67683	61.6185	-0.00529	2.25449
-1.80	2.19930	16.68382	18.88362	59.8503	0.18516	2.20509
-1.60	2.15947	16.07144	18.23091	58.2344	0.37713	2.16427
-1.40	2.12603	15.56658	17.69261	56.7430	0.57035	2.13036
-1.20	2.09787	15.14637	17.24424	55.3504	0.76456	2.10172
-1.00	2.07338	14.78906	16.86245	54.0327	0.95946	2.07676
-0.80	2.05092	14.47309	16.52402	52.7672	1.15473	2.05379
-0.60	2.02865	14.17593	16.20458	51.5306	1.34999	2.03095
-0.40	2.00447	13.87295	15.87742	50.2988	1.54478	2.00608
-0.20	1.97601	13.53701	15.51302	49.0461	1.73857	1.97672
0.	1.94072	13.13984	15.08056	47.7468	1.93074	1.94022
0.20	1.89640	12.65612	14.55252	46.3791	2.12071	1.89419
0.40	1.84185	12.07034	13.91219	44.9322	2.30804	1.83722
0.60	1.77763	11.38358	13.16121	43.4116	2.49262	1.76951
0.80	1.70635	10.61599	12.32234	41.8416	2.67485	1.69318
1.00	1.63231	9.80220	11.43450	40.2590	2.85558	1.61182
1.20	1.56069	8.96209	10.54279	38.7038	3.03610	1.52949
1.40	1.49687	8.19163	9.68850	37.2097	3.21797	1.44987
1.60	1.44615	7.45725	8.90340	35.7982	3.40300	1.37563
1.80	1.41416	6.79463	8.20879	34.4778	3.59328	1.30831
2.00	1.40779	6.21028	7.61806	33.2448	3.79132	1.24849
2.20	1.43671	5.70466	7.14137	32.0858	4.00015	1.19605
2.40	1.51561	5.27592	6.79153	30.9795	4.22337	1.1

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TABLE H (Continued)

12,100°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99930	43.59945	47.59875	127.5894	-4.75163	3.99970
-6.80	3.99836	43.58281	47.58117	125.7312	-4.55173	3.99886
-6.60	3.99714	43.56370	47.56084	123.8710	-4.35187	3.99777
-6.40	3.99540	43.53810	47.53350	122.0050	-4.15205	3.99620
-6.20	3.99282	43.50068	47.49349	120.1282	-3.95234	3.99381
-6.00	3.98887	43.44372	47.43258	118.2334	-3.75277	3.99011
-5.80	3.98279	43.35571	47.33849	116.3097	-3.55343	3.98435
-5.60	3.97342	43.21938	47.19280	114.3412	-3.35445	3.97538
-5.40	3.95908	43.00924	46.96832	112.3043	-3.15602	3.96151
-5.20	3.93732	42.68893	46.62625	110.1655	-2.95841	3.94034
-5.00	3.90489	42.20936	46.11425	107.8797	-2.76201	3.90860
-4.80	3.85776	41.51002	45.36778	105.3923	-2.56728	3.86226
-4.60	3.79168	40.52659	44.31826	102.6467	-2.37478	3.79705
-4.40	3.70323	39.20710	42.91033	99.6005	-2.18503	3.70950
-4.20	3.59129	37.53388	41.12516	96.2468	-1.99836	3.59843
-4.00	3.45816	35.54071	38.99887	92.6297	-1.81477	3.46606
-3.80	3.30961	33.31342	36.62303	88.8435	-1.63384	3.31809
-3.60	3.15356	30.97076	34.12432	85.0125	-1.45481	3.16240
-3.40	2.99820	28.63605	31.63425	81.2611	-1.27675	3.00718
-3.20	2.85046	26.41308	29.26354	77.6918	-1.09870	2.85936
-3.00	2.71509	24.37431	27.08940	74.3721	-0.91983	2.72375
-2.80	2.59472	22.55970	25.15442	71.3355	-0.73952	2.60302
-2.60	2.49019	20.98238	23.47258	68.5880	-0.55738	2.49803
-2.40	2.40107	19.63641	22.03748	66.1163	-0.37321	2.40840
-2.20	2.32614	18.50404	20.83017	63.8960	-0.18698	2.33293
-2.00	2.26378	17.56140	19.82518	61.8970	0.00122	2.27003
-1.80	2.21223	16.78237	18.99460	60.0877	0.19122	2.21794
-1.60	2.16970	16.14097	18.31067	58.4376	0.38278	2.17490
-1.40	2.13449	15.61245	17.74694	56.9183	0.57568	2.13918
-1.20	2.10495	15.17363	17.27858	55.5035	0.76963	2.10914
-1.00	2.07949	14.80253	16.88201	54.1690	0.96434	2.08317
-0.80	2.05643	14.47757	16.53400	52.8918	1.15950	2.05959
-0.60	2.03399	14.17643	16.21042	51.6488	1.35473	2.03655
-0.40	2.01011	13.87493	15.88504	50.4160	1.54960	2.01196
-0.20	1.98244	13.54640	15.52883	49.1679	1.74358	1.98337
0.	1.94845	13.16261	15.11106	47.8787	1.93607	1.94815
0.20	1.90584	12.69736	14.60320	46.5256	2.12647	1.90381
0.40	1.85317	12.13286	13.98603	45.0951	2.31430	1.84868
0.60	1.79067	11.46677	13.25745	43.5896	2.49940	1.78264
0.80	1.72062	10.71575	12.43637	42.0299	2.68207	1.70748
1.00	1.64712	9.91209	11.55921	40.4507	2.86311	1.62656
1.20	1.57533	9.09512	10.67045	38.8919	3.04376	1.54394
1.40	1.51075	8.30167	9.81242	37.3882	3.22558	1.46342
1.60	1.45888	7.55983	9.01871	35.9631	3.41040	1.38784
1.80	1.42553	6.88703	8.31255	34.6270	3.60036	1.31896
2.00	1.41773	6.29123	7.70895	33.3776	3.79798	1.25750
2.20	1.44524	5.77397	7.21921	32.2027	4.00633	1.20346
2.40	1.52276	5.33417	6.85693	31.0817	4.22902	1.15644

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TABLE H (Continued)

12,200°K

LOG p/p_0	γ	F/RT	H/RT	S/R	LOG $P(ATM)$	γ^*
-7.00	3.99961	43.30409	47.30370	127.6517	-4.74802	4.00000
-6.80	3.99867	43.28656	47.28523	125.7924	-4.54812	3.99916
-6.60	3.99751	43.26791	47.26543	123.9326	-4.34825	3.99814
-6.40	3.99593	43.24424	47.24016	122.0684	-4.14842	3.99671
-6.20	3.99359	43.21057	47.20416	120.1950	-3.94868	3.99457
-6.00	3.99005	43.15998	47.15003	118.3061	-3.74906	3.99128
-5.80	3.98461	43.08216	47.06677	116.3919	-3.54965	3.98616
-5.60	3.97625	42.96177	46.93797	114.4383	-3.35057	3.97819
-5.40	3.96342	42.77581	46.73923	112.4240	-3.15197	3.96584
-5.20	3.94391	42.49148	46.43539	110.3186	-2.95411	3.94691
-5.00	3.91468	42.06347	45.97815	108.0806	-2.75734	3.91837
-4.80	3.87189	41.43443	45.30632	105.6581	-2.56212	3.87638
-4.60	3.81126	40.54037	44.35163	102.9941	-2.36897	3.81665
-4.40	3.72903	39.32450	43.05353	100.0412	-2.17844	3.73537
-4.20	3.62332	37.75806	41.38137	96.7808	-1.99093	3.63059
-4.00	3.49546	35.85999	39.35545	93.2428	-1.80654	3.50356
-3.80	3.35036	33.70266	37.05302	89.5086	-1.62495	3.35913
-3.60	3.19554	31.39767	34.59321	85.6961	-1.44550	3.20475
-3.40	3.03929	29.06876	32.10805	81.9313	-1.26727	3.04871
-3.20	2.88899	26.82572	29.71471	78.3236	-1.08929	2.89839
-3.00	2.75000	24.74923	27.49923	74.9492	-0.91071	2.75920
-2.80	2.62550	22.88720	25.51270	71.8500	-0.73083	2.63433
-2.60	2.51674	21.25911	23.77584	69.0385	-0.54920	2.52512
-2.40	2.42359	19.86337	22.28695	66.5058	-0.36558	2.43144
-2.20	2.34500	18.68494	21.02994	64.2299	-0.17990	2.35230
-2.00	2.27943	17.70133	19.98076	62.1820	0.00779	2.28617
-1.80	2.22514	16.88694	19.11207	60.3308	0.19732	2.23131
-1.60	2.18033	16.21576	18.39609	58.6456	0.38848	2.18594
-1.40	2.14326	15.66281	17.80607	57.0973	0.58103	2.14834
-1.20	2.11228	15.20457	17.31685	55.6594	0.77471	2.11683
-1.00	2.08575	14.81885	16.90460	54.3072	0.96922	2.08977
-0.80	2.06202	14.48398	16.54600	53.0174	1.16425	2.06549
-0.60	2.03932	14.17783	16.21715	51.7668	1.35945	2.04216
-0.40	2.01562	13.87659	15.89221	50.5318	1.55437	2.01773
-0.20	1.98863	13.55406	15.54269	49.2871	1.74851	1.98980
0.	1.95583	13.18218	15.13801	48.0067	1.94129	1.95574
0.20	1.91483	12.73409	14.64891	46.6670	2.13209	1.91298
0.40	1.86399	12.18999	14.05398	45.2524	2.32040	1.85965
0.60	1.80323	11.54439	13.34762	43.7620	2.50601	1.79530
0.80	1.73448	10.81042	12.54490	42.2131	2.68913	1.72138
1.00	1.66163	10.01786	11.67949	40.6385	2.87050	1.64102
1.20	1.58980	9.20514	10.79494	39.0772	3.05130	1.55824
1.40	1.52457	8.40975	9.93432	37.5650	3.23311	1.47691
1.60	1.47162	7.66132	9.13294	36.1272	3.41775	1.40008
1.80	1.43696	6.97896	8.41592	34.7759	3.60740	1.32968
2.00	1.42776	6.37214	7.79991	33.5106	3.80462	1.26660
2.20	1.45388	5.84353	7.29741	32.3200	4.01249	1.21096
2.40	1.53001	5.39285	6.92287	31.1846	4.23465	1.16244

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TABLE H (Continued)
12,300°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	3.99995	43.01474	47.01469	127.7146	-4.74444	4.00034
-6.80	3.99898	42.99568	46.99466	125.8537	-4.54455	3.99947
-6.60	3.99787	42.97696	46.97483	123.9937	-4.34467	3.99849
-6.40	3.99640	42.95465	46.95105	122.1306	-4.14483	3.99717
-6.20	3.99427	42.92406	46.91833	120.2600	-3.94506	3.99524
-6.00	3.99108	42.87887	46.86995	118.3761	-3.74540	3.99231
-5.80	3.98621	42.80983	46.79604	116.4701	-3.54593	3.98775
-5.60	3.97873	42.70319	46.68192	114.5294	-3.34675	3.98065
-5.40	3.96724	42.53846	46.50570	112.5349	-3.14801	3.96964
-5.20	3.94973	42.28583	46.23556	110.4590	-2.94993	3.95270
-5.00	3.92337	41.90378	45.82715	108.2637	-2.75284	3.92705
-4.80	3.88454	41.33831	45.22285	105.8998	-2.55716	3.88903
-4.60	3.82900	40.52677	44.35577	103.3114	-2.36341	3.83441
-4.40	3.75274	39.40918	43.16192	100.4472	-2.17215	3.75913
-4.20	3.65324	37.94754	41.60078	97.2794	-1.98382	3.66062
-4.00	3.53091	36.14686	39.67777	93.8236	-1.79861	3.53920
-3.80	3.38974	34.06548	37.45521	90.1481	-1.61633	3.39878
-3.60	3.23677	31.80607	35.04279	86.3625	-1.43639	3.24629
-3.40	3.08011	29.49090	32.57102	82.5924	-1.25793	3.08997
-3.20	2.92769	27.23445	30.16214	78.9529	-1.07997	2.93759
-3.00	2.78536	25.12511	27.91047	75.5286	-0.90161	2.79509
-2.80	2.65687	23.21882	25.87569	72.3698	-0.72212	2.66627
-2.60	2.54395	21.54168	24.08563	69.4958	-0.54099	2.55289
-2.40	2.44676	20.09692	22.54369	66.9025	-0.35790	2.45518
-2.20	2.36447	18.87250	21.23697	64.5708	-0.17276	2.37231
-2.00	2.29563	17.84757	20.14320	62.4733	0.01441	2.30287
-1.80	2.23852	16.99726	19.23578	60.5794	0.20347	2.24517
-1.60	2.19135	16.29565	18.48700	58.8581	0.39422	2.19741
-1.40	2.15236	15.71756	17.86992	57.2802	0.58642	2.15785
-1.20	2.11985	15.23921	17.35906	55.8183	0.77981	2.12478
-1.00	2.09219	14.83811	16.93030	54.4475	0.97411	2.09656
-0.80	2.06772	14.49254	16.56026	53.1442	1.16900	2.07150
-0.60	2.04467	14.18047	16.22514	51.8852	1.36413	2.04781
-0.40	2.02107	13.87846	15.89954	50.6470	1.55909	2.02345
-0.20	1.99466	13.56076	15.55543	49.4045	1.75337	1.99608
0.	1.96295	13.19958	15.16253	48.1318	1.94641	1.96308
0.20	1.92348	12.76756	14.69103	46.8046	2.13759	1.92183
0.40	1.87444	12.24320	14.11764	45.4053	2.32638	1.87027
0.60	1.81544	11.61801	13.43346	43.9302	2.51249	1.80764
0.80	1.74810	10.90166	12.64976	42.3930	2.69607	1.73505
1.00	1.67602	10.12115	11.79717	40.8240	2.87779	1.65538
1.20	1.60426	9.31376	10.91802	39.2615	3.05878	1.57254
1.40	1.53847	8.51740	10.05588	37.7418	3.24059	1.49050
1.60	1.48452	7.76309	9.24761	36.2920	3.42509	1.41248
1.80	1.44859	7.07165	8.52024	34.9261	3.61445	1.34060
2.00	1.43802	6.45407	7.89208	33.6450	3.81127	1.27591
2.20	1.46274	5.91419	7.37692	32.4388	4.01867	1.21866
2.40	1.53747	5.45265	6.99012	31.2887	4.24031	1.16862

TABLE H (Continued)
12,400°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00034	42.73155	46.73188	127.7785	-4.74088	4.00072
-6.80	3.99932	42.71026	46.70958	125.9152	-4.54099	3.99980
-6.60	3.99822	42.69091	46.68912	124.0544	-4.34111	3.99882
-6.40	3.99683	42.66941	46.66624	122.1920	-4.14126	3.99760
-6.20	3.99489	42.64126	46.63615	120.3236	-3.94147	3.99585
-6.00	3.99200	42.60061	46.59262	118.4439	-3.74179	3.99321
-5.80	3.98762	42.53913	46.52675	116.5449	-3.54226	3.98914
-5.60	3.98091	42.44448	46.42539	114.6153	-3.34300	3.98281
-5.40	3.97060	42.29827	46.26887	112.6380	-3.14412	3.97297
-5.20	3.95486	42.07358	46.02844	110.5882	-2.94585	3.95781
-5.00	3.93109	41.73239	45.66349	108.4308	-2.74847	3.93474
-4.80	3.89586	41.27427	45.12013	106.1200	-2.55237	3.90033
-4.60	3.84505	40.48856	44.33360	103.6012	-2.37808	3.85046
-4.40	3.77447	39.46355	43.23802	100.8209	-2.16612	3.78090
-4.20	3.68110	38.10381	41.78492	97.7435	-1.97700	3.68858
-4.00	3.56447	36.40161	39.96608	94.3721	-1.79098	3.57293
-3.80	3.42765	34.40110	37.82875	90.7609	-1.60798	3.43695
-3.60	3.27697	32.19455	35.47153	87.0101	-1.42751	3.28690
-3.40	3.12057	29.90086	33.02143	83.2432	-1.24874	3.13086
-3.20	2.96644	27.63783	30.60426	79.5784	-1.07074	2.97684
-3.00	2.82109	25.50080	28.32189	76.1093	-0.89256	2.83137
-2.80	2.68880	23.55369	26.24249	72.8940	-0.71342	2.69878
-2.60	2.57179	21.82451	24.40130	69.9592	-0.53274	2.58132
-2.40	2.47059	20.33665	22.80723	67.3059	-0.35018	2.47957
-2.20	2.38456	19.06643	21.45099	64.9183	-0.16557	2.39295
-2.00	2.31238	17.99996	20.31234	62.7708	0.02108	2.32015
-1.80	2.25238	17.11322	19.36560	60.8335	0.20966	2.25953
-1.60	2.20277	16.38056	18.58333	59.0753	0.39999	2.20930
-1.40	2.16177	15.77665	17.93843	57.4668	0.59183	2.16770
-1.20	2.12767	15.27745	17.40512	55.9801	0.78493	2.13301
-1.00	2.09881	14.86022	16.95502	54.5899	0.97899	2.10355
-0.80	2.07351	14.50309	16.57660	53.2721	1.17373	2.07763
-0.60	2.05003	14.18413	16.23416	52.0037	1.36878	2.05348
-0.40	2.02642	13.88018	15.90660	50.7611	1.56375	2.02909
-0.20	2.00047	13.56593	15.56640	49.5195	1.75815	2.00215
0.	1.96970	13.21389	15.18360	48.2530	1.95142	1.97009
0.20	1.93164	12.79640	14.72804	46.9369	2.14295	1.93022
0.40	1.88431	12.29053	14.17485	45.5520	2.33217	1.88033
0.60	1.82705	11.68510	13.51215	44.0916	2.51877	1.81939
0.80	1.76114	10.98640	12.74754	42.5664	2.70281	1.74816
1.00	1.68992	10.21859	11.90852	41.0039	2.88489	1.66926
1.20	1.61834	9.41753	11.03587	39.4411	3.06609	1.58648
1.40	1.55211	8.62128	10.17340	37.9152	3.24795	1.50385
1.60	1.49725	7.86209	9.35934	36.4544	3.43232	1.42473
1.80	1.46012	7.16240	8.62252	35.0745	3.62141	1.35143
2.00	1.44822	6.53470	7.98292	33.7783	3.81786	1.28519
2.20	1.47157	5.98406	7.45564	32.5569	4.02480	1.22635
2.40	1.54492	5.51205	7.05698	31.3926	4.24593	1.17481

TABLE H (Continued)
12,500°K

LOG p/p_0	γ	F /RT	H /RT	S /R	LOG P (ATM)	γ^*
-7.00	4.00079	42.45485	46.45564	127.8440	-4.73734	4.00117
-6.80	3.99967	42.43051	46.43018	125.9774	-4.53747	4.00015
-6.60	3.99856	42.40990	46.40846	124.1151	-4.33759	3.99917
-6.40	3.99724	42.38867	46.38591	122.2528	-4.13773	3.99800
-6.20	3.99544	42.36236	46.35780	120.3861	-3.93793	3.99639
-6.00	3.99282	42.32549	46.31831	118.5098	-3.73821	3.99401
-5.80	3.98887	42.27048	46.25935	116.6169	-3.53864	3.99037
-5.60	3.98283	42.18624	46.16907	114.6970	-3.33930	3.98471
-5.40	3.97357	42.05624	46.02980	112.7348	-3.14031	3.97591
-5.20	3.95940	41.85616	45.81556	110.7079	-2.94186	3.96233
-5.00	3.93795	41.55132	45.48927	108.5843	-2.74422	3.94158
-4.80	3.90599	41.09480	45.00079	106.3212	-2.54776	3.91044
-4.60	3.85954	40.42852	44.28807	103.8662	-2.35295	3.86495
-4.40	3.79436	39.49024	43.28459	101.1647	-2.16035	3.80082
-4.20	3.70698	38.22878	41.93576	98.1751	-1.97047	3.71453
-4.00	3.59615	36.62510	40.22125	94.8889	-1.78365	3.60477
-3.80	3.46403	34.70935	38.17337	91.3467	-1.59991	3.47357
-3.60	3.31621	32.36226	35.87846	87.6379	-1.41885	3.32647
-3.40	3.16052	30.29757	33.45809	83.8817	-1.23973	3.17124
-3.20	3.00517	28.03477	31.03994	80.1990	-1.06162	3.01607
-3.00	2.85712	25.87544	28.73256	76.6902	-0.88356	2.86796
-2.80	2.72125	23.89120	26.61245	73.4221	-0.70472	2.73181
-2.60	2.60026	22.12221	24.72247	70.4284	-0.52447	2.61038
-2.40	2.49505	20.58235	23.07740	67.7159	-0.34241	2.50463
-2.20	2.40525	19.26668	21.67193	65.2725	-0.15833	2.41423
-2.00	2.32968	18.15849	20.48818	63.0746	0.02781	2.33801
-1.80	2.26673	17.23490	19.50162	61.0931	0.21591	2.27440
-1.60	2.21461	16.47060	18.68520	59.2973	0.40581	2.22163
-1.40	2.17154	15.84023	18.01177	57.6573	0.59728	2.17792
-1.20	2.13577	15.31951	17.45528	56.1451	0.79006	2.14153
-1.00	2.10562	14.88545	16.99108	54.7346	0.98389	2.11076
-0.80	2.07943	14.51604	16.59547	53.4016	1.17845	2.08392
-0.60	2.05544	14.18938	16.24482	52.1229	1.37341	2.05923
-0.40	2.03174	13.88257	15.91432	50.8750	1.56838	2.03472
-0.20	2.00616	13.57073	15.57689	49.6333	1.76288	2.00813
0.	1.97626	13.22670	15.20295	48.3721	1.95635	1.97690
0.20	1.93952	12.82266	14.76218	47.0661	2.14820	1.93833
0.40	1.89385	12.33451	14.22837	45.6949	2.33378	1.89007
0.60	1.83834	11.74857	13.58691	44.2492	2.52493	1.83083
0.80	1.77392	11.06786	12.84177	42.7365	2.70944	1.76103
1.00	1.70367	10.31353	12.01721	41.1813	2.89190	1.68300
1.20	1.63239	9.51978	11.15217	39.6195	3.07333	1.60040
1.40	1.56582	8.72458	10.29040	38.0882	3.25525	1.51727
1.60	1.51012	7.96126	9.47138	36.6172	3.43952	1.43712
1.80	1.47184	7.25382	8.72566	35.2239	3.62837	1.36245
2.00	1.45863	6.61631	8.07494	33.9128	3.82445	1.29466
2.20	1.48062	6.05506	7.53568	32.6764	4.03095	1.23424
2.40	1.55257	5.57264	7.12521	31.4979	4.25156	1.18118

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TABLE H (Continued)
12,600°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00131	42.18491	46.18622	127.9112	-4.73383	4.00169
-6.80	4.00007	42.15656	46.15664	126.0405	-4.53396	4.00055
-6.60	3.99892	42.13400	46.13293	124.1761	-4.33409	3.99952
-6.40	3.99763	42.11246	46.11010	122.3132	-4.13423	3.99838
-6.20	3.99595	42.08742	46.08337	120.4476	-3.93441	3.99689
-6.00	3.99355	42.05364	46.04719	118.5741	-3.73467	3.99473
-5.80	3.98997	42.00415	45.99413	116.6863	-3.53506	3.99145
-5.60	3.98453	41.92893	45.91346	114.7748	-3.33565	3.98639
-5.40	3.97618	41.81309	45.78977	112.8258	-3.13656	3.97851
-5.20	3.96342	41.63469	45.59811	110.8190	-2.93796	3.96632
-5.00	3.94404	41.36211	45.30616	108.7254	-2.74009	3.94764
-4.80	3.91504	40.95192	44.86697	106.5051	-2.54329	3.91948
-4.60	3.87261	40.34894	44.22156	104.1084	-2.34803	3.87801
-4.40	3.81250	39.49140	43.30390	101.4805	-2.15482	3.81898
-4.20	3.73092	38.32396	42.05488	98.5752	-1.96421	3.73854
-4.00	3.62594	36.81778	40.44372	95.3742	-1.77661	3.63470
-3.80	3.49880	34.98956	38.48836	91.9046	-1.59211	3.50857
-3.60	3.35429	32.90771	36.26200	88.2442	-1.41043	3.36487
-3.40	3.19985	30.679.6	33.87901	84.5063	-1.23090	3.21098
-3.20	3.04373	28.42347	31.46720	80.8126	-1.05262	3.05513
-3.00	2.89336	26.24743	29.14079	77.2699	-0.87463	2.90475
-2.80	2.75413	24.23008	26.98421	73.9527	-0.69605	2.76529
-2.60	2.62928	22.41882	25.04809	70.9024	-0.51619	2.64002
-2.40	2.52011	20.83332	23.35344	68.1319	-0.33461	2.53032
-2.20	2.42654	19.47272	21.89926	65.6329	-0.15104	2.43612
-2.00	2.34753	18.32282	20.67035	63.3842	0.03458	2.35644
-1.80	2.28155	17.36203	19.64358	61.3580	0.22220	2.28978
-1.60	2.22685	16.56558	18.79244	59.5239	0.41166	2.23440
-1.40	2.18164	15.90817	18.08980	57.8517	0.60275	2.18851
-1.20	2.14413	15.36529	17.50942	56.3131	0.79522	2.15035
-1.00	2.11264	14.91373	17.02637	54.8816	0.98880	2.11820
-0.80	2.08548	14.53132	16.61679	53.5326	1.18318	2.09035
-0.60	2.06090	14.19614	16.25704	52.2478	1.37803	2.06505
-0.40	2.03703	13.88553	15.92256	50.9886	1.57297	2.04034
-0.20	2.01172	13.57497	15.58669	49.7457	1.76754	2.01399
0.	1.98257	13.23770	15.22077	48.4885	1.96120	1.98349
0.20	1.94705	12.84586	14.79291	47.1916	2.15335	1.94611
0.40	1.90297	12.37436	14.27733	45.8332	2.34340	1.89941
0.60	1.84917	11.80731	13.65648	44.4018	2.53095	1.84184
0.80	1.78628	11.14458	12.93086	42.9017	2.71592	1.77351
1.00	1.71708	10.40430	12.12139	41.3547	2.89876	1.69643
1.20	1.64621	9.61874	11.26495	39.7948	3.08045	1.61412
1.40	1.57940	8.82556	10.40496	38.2592	3.26246	1.53059
1.60	1.52295	8.05897	9.58193	36.7788	3.44666	1.44949
1.80	1.48358	7.34448	8.82806	35.3729	3.63528	1.37351
2.00	1.46910	6.69766	8.16676	34.0473	3.83102	1.30420
2.20	1.48975	6.12614	7.61589	32.7961	4.03708	1.24722
2.40	1.56030	5.63356	7.19387	31.6036	4.25718	1.18765

TABLE H (Continued)
12,700°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	4.00194	41.92215	45.92409	127.9810	-4.73033	4.00231
-6.80	4.00053	41.88869	45.88921	126.1048	-4.53048	4.00099
-6.60	3.99930	41.86340	45.86270	124.2375	-4.33061	3.99989
-6.40	3.99802	41.84095	45.83897	122.3736	-4.13075	3.99876
-6.20	3.99643	41.81659	45.81301	120.5085	-3.93092	3.99735
-6.00	3.99421	41.78524	45.77946	118.6372	-3.73117	3.99538
-5.80	3.99096	41.74042	45.73138	116.7536	-3.53152	3.99242
-5.60	3.98603	41.67300	45.65903	114.8494	-3.33206	3.98787
-5.40	3.97850	41.56955	45.54805	112.9119	-3.13288	3.98080
-5.20	3.96698	41.41024	45.37723	110.9229	-2.93414	3.96986
-5.00	3.94946	41.16630	45.11576	108.8558	-2.73606	3.95303
-4.80	3.92314	40.79766	44.72080	106.6741	-2.53896	3.92755
-4.60	3.88440	40.25225	44.13665	104.3304	-2.34327	3.88979
-4.40	3.82903	39.46956	43.29860	101.7708	-2.14951	3.83553
-4.20	3.75304	38.39151	42.14454	98.9461	-1.95821	3.76071
-4.00	3.65388	36.98098	40.63486	95.8291	-1.76984	3.66276
-3.80	3.53194	35.24211	38.77405	92.4348	-1.58458	3.54101
-3.60	3.39115	33.23048	36.62164	88.8285	-1.40225	3.40204
-3.40	3.23845	31.04476	34.28321	85.1159	-1.22226	3.24999
-3.20	3.08206	28.80295	31.88501	81.4183	-1.04376	3.09395
-3.00	2.92973	26.61594	29.54567	77.8474	-0.86577	2.94169
-2.80	2.78740	24.56971	27.35711	74.4852	-0.68740	2.79917
-2.60	2.65883	22.71891	25.37774	71.3809	-0.50791	2.67021
-2.40	2.54577	21.08931	23.63508	68.5536	-0.32678	2.55661
-2.20	2.44841	19.68443	22.13285	65.9994	-0.14371	2.45862
-2.00	2.36592	18.49288	20.85880	63.6998	0.04140	2.37544
-1.80	2.29687	17.49462	19.79149	61.6284	0.22854	2.30567
-1.60	2.23952	16.66556	18.90508	59.7552	0.41756	2.24761
-1.40	2.19209	15.98051	18.17260	58.0501	0.60826	2.19947
-1.20	2.15278	15.41486	17.56764	56.4843	0.80040	2.15947
-1.00	2.11988	14.94515	17.06502	55.0310	0.99371	2.12587
-0.80	2.09167	14.54902	16.64070	53.6653	1.18790	2.09696
-0.60	2.06644	14.20455	16.27099	52.3634	1.38263	2.07096
-0.40	2.04230	13.88924	15.93154	51.1021	1.57752	2.04596
-0.20	2.01717	13.57892	15.59609	49.8569	1.77215	2.01976
0.	1.98867	13.24721	15.23588	48.6027	1.96597	1.98988
0.20	1.95427	12.86632	14.82059	47.3136	2.15839	1.95360
0.40	1.91170	12.41038	14.32208	45.9671	2.34882	1.90837
0.60	1.85957	11.86154	13.72111	44.5495	2.53682	1.85242
0.80	1.79823	11.21670	13.01494	43.0621	2.72225	1.78559
1.00	1.73015	10.49091	12.22107	41.5236	2.90549	1.70955
1.20	1.65978	9.71435	11.37413	39.9665	3.08745	1.62761
1.40	1.59285	8.92410	10.51694	38.4275	3.26958	1.54379
1.60	1.53573	8.15510	9.69083	36.9386	3.45372	1.46183
1.80	1.49534	7.43424	8.92957	35.5206	3.64214	1.38459
2.00	1.47963	6.77861	8.25824	34.1810	3.83756	1.31381
2.20	1.49896	6.19718	7.69613	32.9153	4.04319	1.25028
2.40	1.56812	5.69471	7.26283	31.7089	4.26278	1.19421

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TABLE H (Continued)

12,800°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00268	41.66705	45.66973	128.0536	-4.72684	4.00305
-6.80	4.00105	41.62716	45.62821	126.1708	-4.52702	4.00151
-6.60	3.99972	41.59824	45.59796	124.2996	-4.32716	4.00030
-6.40	3.99841	41.57421	45.57262	122.4340	-4.12730	3.99914
-6.20	3.99687	41.54996	45.54683	120.5687	-3.92747	3.99779
-6.00	3.99481	41.52042	45.51524	118.6990	-3.72769	3.99597
-5.80	3.99184	41.47949	45.47133	116.8190	-3.52807	3.99329
-5.60	3.98737	41.41879	45.40616	114.9210	-3.32850	3.98918
-5.40	3.98055	41.32615	45.30670	112.9936	-3.12925	3.98283
-5.20	3.97014	41.18364	45.15377	111.0201	-2.93038	3.97299
-5.00	3.95428	40.96508	44.91936	108.9767	-2.73212	3.95782
-4.80	3.93038	40.63362	44.56400	106.8293	-2.53476	3.93476
-4.60	3.89501	40.14039	44.03540	104.5337	-2.33868	3.90038
-4.40	3.84406	39.42676	43.27082	102.0374	-2.14440	3.85056
-4.20	3.77339	38.43308	42.20647	99.2889	-1.95246	3.78112
-4.00	3.67998	37.11555	40.79553	96.2543	-1.76334	3.68896
-3.80	3.56339	35.46677	39.03016	92.9368	-1.57733	3.57355
-3.60	3.42669	33.52944	36.95613	89.3892	-1.39432	3.43787
-3.40	3.27620	31.39269	34.66890	85.7087	-1.21382	3.28813
-3.20	3.12002	29.17136	32.29138	82.0145	-1.03503	3.13240
-3.00	2.96612	26.97926	29.94538	78.4208	-0.85700	2.97864
-2.80	2.82097	24.90863	27.72959	75.0181	-0.67879	2.83335
-2.60	2.68885	23.02132	25.71017	71.8627	-0.49962	2.70087
-2.40	2.57196	21.34942	23.92139	68.9801	-0.31893	2.58346
-2.20	2.47083	19.90115	22.37198	66.3713	-0.13635	2.48169
-2.00	2.38484	18.66819	21.05303	64.0209	0.04827	2.39499
-1.80	2.31265	17.63231	19.94497	61.9039	0.23492	2.32206
-1.60	2.25260	16.77025	19.02286	59.9910	0.42349	2.26126
-1.40	2.20289	16.05708	18.25997	58.2523	0.61380	2.21081
-1.20	2.16171	15.46809	17.62980	56.6586	0.80561	2.16890
-1.00	2.12732	14.97963	17.10695	55.1828	0.99864	2.13378
-0.80	2.09801	14.56915	16.66716	53.7996	1.19262	2.10373
-0.60	2.07205	14.21467	16.28672	52.4850	1.38721	2.07697
-0.40	2.04758	13.89382	15.94139	51.2156	1.58205	2.05160
-0.20	2.02253	13.58276	15.60529	49.9673	1.77670	2.02546
0.	1.99458	13.25549	15.25007	48.7149	1.97066	1.99611
0.20	1.96120	12.88436	14.84556	47.4326	2.16333	1.96082
0.40	1.92004	12.44291	14.36296	46.0971	2.35412	1.91697
0.60	1.86955	11.91156	13.78112	44.6928	2.54255	1.86262
0.80	1.80978	11.28443	13.09420	43.2181	2.72843	1.79728
1.00	1.74288	10.57349	12.31637	41.6889	2.91208	1.72234
1.20	1.67311	9.80667	11.47978	40.1355	3.09433	1.64088
1.40	1.60614	9.02023	10.62637	38.5942	3.27659	1.55686
1.60	1.54845	8.24966	9.79811	37.0977	3.46071	1.47413
1.80	1.50710	7.52313	9.03023	35.6683	3.64895	1.39570
2.00	1.49020	6.85924	8.34944	34.3153	3.84406	1.32348
2.20	1.50824	6.26827	7.77651	33.0355	4.04928	1.25842
2.40	1.57601	5.75622	7.33223	31.8155	4.26837	1.20087

TABLE H (Continued)
12,900°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00357	41.42015	45.42372	128.1301	-4.72336	4.00393
-6.80	4.00166	41.37229	45.37395	126.2390	-4.52357	4.00212
-6.60	4.00018	41.33871	45.33889	124.3629	-4.32373	4.00075
-6.40	3.99882	41.31234	45.31116	122.4947	-4.12388	3.99954
-6.20	3.99731	41.28759	45.28490	120.6288	-3.92404	3.99822
-6.00	3.99537	41.25928	45.25465	118.7601	-3.72425	3.99651
-5.80	3.99263	41.22152	45.21415	116.8830	-3.52455	3.99406
-5.60	3.98856	41.16658	45.15513	114.9902	-3.32499	3.99036
-5.40	3.98238	41.08336	45.06574	113.0715	-3.12567	3.98463
-5.20	3.97295	40.95564	44.92859	111.1119	-2.92670	3.97577
-5.00	3.95857	40.75960	44.71817	109.0893	-2.72827	3.96209
-4.80	3.93685	40.46141	44.39826	106.9728	-2.53066	3.94121
-4.60	3.90456	40.01542	43.91998	104.7208	-2.33424	3.90991
-4.40	3.85772	39.36529	43.22302	102.2826	-2.13948	3.86421
-4.20	3.79212	38.45092	42.24304	99.6060	-1.94693	3.79987
-4.00	3.70432	37.22322	40.92755	96.6513	-1.75710	3.71339
-3.80	3.59317	35.66450	39.25767	93.4114	-1.57033	3.60351
-3.60	3.46087	33.80471	37.26558	89.9266	-1.38663	3.47231
-3.40	3.31304	31.72253	35.03557	86.2842	-1.20558	3.32535
-3.20	3.15753	29.52809	32.68562	82.5997	-1.02646	3.17038
-3.00	3.00247	27.33675	30.33922	78.9897	-0.84833	3.01555
-2.80	2.85479	25.24635	28.10115	75.5510	-0.67024	2.86780
-2.60	2.71931	23.32577	26.04508	72.3475	-0.49135	2.73200
-2.40	2.59869	21.61352	24.21221	69.4114	-0.31106	2.61086
-2.20	2.49381	20.12284	22.61666	66.7487	-0.12895	2.50535
-2.00	2.40429	18.84881	21.25310	64.3475	0.05518	2.41510
-1.80	2.32893	17.77521	20.10414	62.1845	0.24135	2.33897
-1.60	2.26611	16.87981	19.14591	60.2315	0.42947	2.27537
-1.40	2.21405	16.13803	18.35207	58.4586	0.61938	2.22253
-1.20	2.17093	15.52515	17.69609	56.8363	0.81084	2.17865
-1.00	2.13500	15.01736	17.15237	55.3373	1.00359	2.14195
-0.80	2.10453	14.59192	16.69645	53.9358	1.19734	2.11070
-0.60	2.07777	14.22677	16.30454	52.6078	1.39179	2.08311
-0.40	2.05289	13.89965	15.95254	51.3296	1.58655	2.05730
-0.20	2.02785	13.58701	15.61487	50.0773	1.78123	2.03115
0.	2.00037	13.26325	15.26361	48.8259	1.97530	2.00223
0.20	1.96793	12.90089	14.86882	47.5495	2.16820	1.96785
0.40	1.92813	12.47306	14.40119	46.2243	2.35933	1.92533
0.60	1.87925	11.95866	13.83791	44.8329	2.54817	1.87255
0.80	1.82106	11.34917	13.17022	43.3710	2.73451	1.80873
1.00	1.75543	10.65350	12.40893	41.8516	2.91857	1.73496
1.20	1.68635	9.89717	11.58353	40.3028	3.10114	1.65407
1.40	1.61946	9.11540	10.73486	38.7601	3.28356	1.56996
1.60	1.56127	8.34401	9.90528	37.2568	3.46767	1.48654
1.80	1.51901	7.61238	9.13139	35.8167	3.65575	1.40696
2.00	1.50097	6.94057	8.44154	34.4506	3.85056	1.33333
2.20	1.51771	6.34028	7.85799	33.1569	4.05538	1.26676
2.40	1.58409	5.81876	7.40285	31.9234	4.27397	1.20771

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TABLE H (Continued)
13,000°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00464	41.18217	45.18681	128.2111	-4.71989	4.00500
-6.80	4.00238	41.12452	45.12691	126.3097	-4.52014	4.00283
-6.60	4.00070	41.08509	45.08578	124.4275	-4.32032	4.00126
-6.40	3.99925	41.05554	45.05479	122.5560	-4.12048	3.99996
-6.20	3.99774	41.02964	45.02738	120.6887	-3.92064	3.99864
-6.00	3.99589	41.00194	44.99783	118.8203	-3.72084	3.99702
-5.80	3.99335	40.96669	44.96004	116.9455	-3.52112	3.99477
-5.60	3.98962	40.91662	44.90624	115.0572	-3.32152	3.99140
-5.40	3.98401	40.84161	44.82561	113.1461	-3.12214	3.98624
-5.20	3.97545	40.72688	44.70233	111.1985	-2.92307	3.97824
-5.00	3.96240	40.55079	44.51319	109.1945	-2.72450	3.96588
-4.80	3.94265	40.28231	44.22495	107.1055	-2.52667	3.94697
-4.60	3.91316	39.87896	43.79212	104.8928	-2.32993	3.91848
-4.40	3.87011	39.28703	43.15715	102.5081	-2.13473	3.87659
-4.20	3.80928	38.44675	42.25603	99.8988	-1.94161	3.81706
-4.00	3.72694	37.30516	41.03210	97.0210	-1.75110	3.73609
-3.80	3.62127	35.33554	39.45681	93.8585	-1.56360	3.63175
-3.60	3.49360	34.05563	37.54923	90.4396	-1.37918	3.50530
-3.40	3.34884	32.03292	35.38176	86.8407	-1.19756	3.36151
-3.20	3.19445	29.87146	33.06592	83.1724	-1.01806	3.20777
-3.00	3.03865	27.68676	30.72541	79.5522	-0.83978	3.05229
-2.80	2.88377	25.58141	28.47018	76.0824	-0.66174	2.90241
-2.60	2.75013	23.63102	26.38115	72.8341	-0.48310	2.76349
-2.40	2.62589	21.88064	24.50653	69.8464	-0.30318	2.63876
-2.20	2.51731	20.34877	22.86608	67.1309	-0.12152	2.52954
-2.00	2.42425	19.03417	21.45842	64.6791	0.06212	2.43574
-1.80	2.34567	17.92289	20.26855	62.4700	0.24781	2.35637
-1.60	2.28003	16.99389	19.27392	60.4764	0.43548	2.28991
-1.40	2.22556	16.22310	18.44866	58.6686	0.62498	2.23463
-1.20	2.18045	15.58585	17.76630	57.0171	0.81609	2.18871
-1.00	2.14292	15.05819	17.20110	55.4942	1.00855	2.15037
-0.80	2.11121	14.61720	16.72841	54.0739	1.20207	2.11785
-0.60	2.08359	14.24074	16.32432	52.7317	1.39636	2.08937
-0.40	2.05823	13.90660	15.96482	51.4439	1.59104	2.06305
-0.20	2.03312	13.59151	15.62462	50.1867	1.78571	2.03680
0.	2.00601	13.27021	15.27622	48.9352	1.97988	2.00822
0.20	1.97441	12.91551	14.88992	47.6638	2.17298	1.97466
0.40	1.93588	12.50023	14.43611	46.3478	2.36447	1.93337
0.60	1.88855	12.00195	13.89051	44.9686	2.55367	1.88211
0.80	1.83194	11.40976	13.24170	43.5193	2.74045	1.81981
1.00	1.76761	10.72956	12.49717	42.0101	2.92493	1.74725
1.20	1.69933	9.98434	11.68366	40.4665	3.10782	1.66703
1.40	1.63259	9.20806	10.84065	38.9232	3.29042	1.58292
1.60	1.57401	8.43668	10.01068	37.4139	3.47455	1.49888
1.80	1.53091	7.70066	9.29158	35.9636	3.66249	1.41823
2.00	1.51176	7.02152	8.53328	34.5850	3.85703	1.34324
2.20	1.52724	6.41233	7.93958	33.2776	4.06145	1.27517
2.40	1.59223	5.88168	7.47391	32.0309	4.27955	1.21464

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TABLE H (Continued)
13,100°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00593	40.95396	44.95989	128.2974	-4.71643	4.00629
-6.80	4.00324	40.88440	44.88764	126.3837	-4.51672	4.00368
-6.60	4.00130	40.83770	44.83900	124.4939	-4.31693	4.00186
-6.40	3.99971	40.80401	44.80372	122.6179	-4.11710	4.00042
-6.20	3.99818	40.77625	44.77443	120.7486	-3.91727	3.99907
-6.00	3.99639	40.74856	44.74495	118.8801	-3.71746	3.99751
-5.80	3.99401	40.71517	44.70918	117.0068	-3.51772	3.99541
-5.60	3.99058	40.66918	44.65977	115.1222	-3.31809	3.99234
-5.40	3.98546	40.60127	44.58673	113.2177	-3.11865	3.98767
-5.20	3.97767	40.49795	44.47562	111.2806	-2.91950	3.98044
-5.00	3.96581	40.33953	44.30534	109.2930	-2.72080	3.96926
-4.80	3.94783	40.09755	44.04538	107.2285	-2.52277	3.95211
-4.60	3.92089	39.73265	43.65354	105.0514	-2.32574	3.92618
-4.40	3.88134	39.19388	43.07523	102.7155	-2.13015	3.88781
-4.20	3.82500	38.42254	42.24754	100.1690	-1.93650	3.83278
-4.00	3.74791	37.36298	41.11089	97.3649	-1.74534	3.75711
-3.80	3.64769	35.98081	39.62850	94.2789	-1.55711	3.65831
-3.60	3.52486	34.28225	37.80711	90.9279	-1.37199	3.53679
-3.40	3.38353	32.32322	35.70675	87.3775	-1.18976	3.39654
-3.20	3.23070	30.20044	33.43114	83.7315	-1.00983	3.24448
-3.00	3.07458	28.02816	31.10273	80.1070	-0.83134	3.08877
-2.80	2.92283	25.91278	28.83561	76.6110	-0.65333	2.93709
-2.60	2.78126	23.93624	26.71750	73.3215	-0.47489	2.79530
-2.40	2.65352	22.15016	24.80368	70.2846	-0.29531	2.66710
-2.20	2.54129	20.57849	23.11978	67.5174	-0.11407	2.55423
-2.00	2.44469	19.22396	21.66865	65.0154	0.06910	2.45689
-1.80	2.36287	18.07513	20.43799	62.7602	0.25431	2.37425
-1.60	2.29435	17.11237	19.40672	60.7255	0.44153	2.30489
-1.40	2.23742	16.31221	18.54964	58.8823	0.63062	2.24711
-1.20	2.19026	15.65014	17.84040	57.2011	0.82137	2.19910
-1.00	2.15106	15.10210	17.25316	55.6537	1.01352	2.15906
-0.80	2.11806	14.64501	16.76307	54.2138	1.20681	2.12521
-0.60	2.08952	14.25661	16.34613	52.8567	1.40092	2.09576
-0.40	2.06360	13.91476	15.97836	51.5586	1.59550	2.06886
-0.20	2.03835	13.59639	15.63473	50.2958	1.79015	2.04243
0.	2.01152	13.27660	15.28812	49.0433	1.98440	2.01411
0.20	1.98067	12.92848	14.90915	47.7758	2.17768	1.98126
0.40	1.94332	12.52467	14.46799	46.4682	2.36942	1.94113
0.60	1.89748	12.04167	13.93915	45.1005	2.55905	1.89131
0.80	1.84244	11.46633	13.30877	43.6636	2.74626	1.83052
1.00	1.77945	10.80167	12.58112	42.1648	2.93116	1.75921
1.20	1.71202	10.06806	11.78008	40.6272	3.11438	1.67973
1.40	1.64554	9.29802	10.94356	39.0842	3.29718	1.59571
1.60	1.58664	8.52744	10.11408	37.5698	3.48135	1.51115
1.80	1.54279	7.78774	9.33052	36.1103	3.66918	1.42950
2.00	1.52258	7.10180	8.62438	34.7197	3.86345	1.35318
2.20	1.53683	6.48412	8.02095	33.3991	4.06750	1.28365
2.40	1.60043	5.94469	7.54512	32.1396	4.28511	1.22167

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TABLE H (Continued)
13,200°K

LOG p/p_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00749	40.73649	44.74398	128.3905	-4.71295	4.00784
-6.80	4.00425	40.65253	44.65678	126.4618	-4.51330	4.00470
-6.60	4.00199	40.59691	44.59891	124.5627	-4.31355	4.00255
-6.40	4.00023	40.55799	44.55822	122.6812	-4.11374	4.00093
-6.20	3.99863	40.52757	44.52621	120.8090	-3.91391	3.99951
-6.00	3.99688	40.49924	44.49612	118.9396	-3.71411	3.99798
-5.80	3.99463	40.46709	44.46172	117.0674	-3.51435	3.99601
-5.60	3.99145	40.42446	44.41592	115.1858	-3.31470	3.99320
-5.40	3.98676	40.36266	44.34942	113.2869	-3.11521	3.98895
-5.20	3.97966	40.26935	44.24901	111.3591	-2.91598	3.98240
-5.00	3.96886	40.12657	44.09543	109.3859	-2.71716	3.97228
-4.80	3.95247	39.90828	43.86075	107.3435	-2.51896	3.95673
-4.60	3.92785	39.57802	43.50586	105.1983	-2.32167	3.93311
-4.40	3.89152	39.08776	42.97928	102.9070	-2.12571	3.89797
-4.20	3.83938	38.38037	42.21976	100.4188	-1.93156	3.84717
-4.00	3.76734	37.39861	41.16595	97.6847	-1.73979	3.77658
-3.80	3.67250	36.10173	39.77423	94.6739	-1.55086	3.68324
-3.60	3.55465	34.48529	38.03994	91.3924	-1.36503	3.56679
-3.40	3.41708	32.59352	36.01060	87.8947	-1.18217	3.43041
-3.20	3.26623	30.51472	33.78095	84.2766	-1.00178	3.28045
-3.00	3.11022	28.36050	31.47072	80.6540	-0.82303	3.12496
-2.80	2.95692	26.24009	29.19701	77.1365	-0.64499	2.97181
-2.60	2.81266	24.24118	27.05385	73.8096	-0.46671	2.82739
-2.40	2.68158	22.42194	25.10352	70.7258	-0.28743	2.69588
-2.20	2.56576	20.81198	23.37774	67.9083	-0.10661	2.57944
-2.00	2.46564	19.41824	21.88387	65.3566	0.07610	2.47856
-1.80	2.38053	18.23205	20.61258	63.0551	0.26085	2.39262
-1.60	2.30910	17.23538	19.54448	60.9791	0.44762	2.32032
-1.40	2.24965	16.40552	18.65517	59.1000	0.63629	2.25998
-1.20	2.20037	15.71818	17.91855	57.3884	0.82667	2.20982
-1.00	2.15945	15.14925	17.30870	55.8159	1.01852	2.16801
-0.80	2.12510	14.67551	16.80061	54.3558	1.21155	2.13277
-0.60	2.09557	14.27459	16.37016	52.9832	1.40548	2.10231
-0.40	2.06904	13.92434	15.99338	51.6741	1.59994	2.07475
-0.20	2.04355	13.60189	15.64545	50.4047	1.79456	2.04806
0.	2.01692	13.28269	15.29961	49.1504	1.98886	2.01991
0.20	1.98673	12.94011	14.92683	47.8958	2.18231	1.98769
0.40	1.95047	12.54672	14.49719	46.5856	2.37431	1.94861
0.60	1.90606	12.07812	13.98418	45.2287	2.56431	1.90018
0.80	1.85255	11.51914	13.37169	43.8039	2.75194	1.84087
1.00	1.79093	10.87003	12.66095	42.3156	2.93725	1.77085
1.20	1.72443	10.14847	11.87290	40.7846	3.12082	1.69217
1.40	1.65830	9.38537	11.04367	39.2428	3.30384	1.60833
1.60	1.59917	8.61637	10.21554	37.7242	3.48807	1.52334
1.80	1.55462	7.87368	9.42831	36.2561	3.67580	1.44075
2.00	1.53341	7.18153	8.71494	34.8540	3.86983	1.36317
2.20	1.54646	6.55582	8.10228	33.5207	4.07351	1.29220
2.40	1.60867	6.00801	7.61668	32.2487	4.29064	1.22879

TABLE H (Continued)
13,300°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.00935	40.53083	44.54018	128.4916	-4.70947	4.00970
-6.80	4.00547	40.42953	44.43500	126.5448	-4.50990	4.00591
-6.60	4.00281	40.36309	44.36590	124.6345	-4.31018	4.00336
-6.40	4.00082	40.31765	44.31847	122.7461	-4.11040	4.00151
-6.20	3.99912	40.28369	44.28281	120.8702	-3.91058	3.99999
-6.00	3.99736	40.25405	44.25140	118.9992	-3.71078	3.99845
-5.80	3.99521	40.22251	44.21772	117.1273	-3.51101	3.99658
-5.60	3.99225	40.18253	44.17478	115.2481	-3.31133	3.99397
-5.40	3.98794	40.12595	44.11389	113.3540	-3.11180	3.99010
-5.20	3.98145	40.04140	44.02285	111.4343	-2.91251	3.98416
-5.00	3.97159	39.91247	43.88406	109.4740	-2.71358	3.97498
-4.80	3.95664	39.71530	43.67194	107.4510	-2.51522	3.96086
-4.60	3.93412	39.41622	43.35034	105.3347	-2.31770	3.93934
-4.40	3.90075	38.97012	42.87087	103.0840	-2.12140	3.90717
-4.20	3.85253	38.32186	42.17439	100.6499	-1.92680	3.86031
-4.00	3.78528	37.41351	41.19880	97.9820	-1.73445	3.79457
-3.80	3.69574	36.19923	39.89496	95.0443	-1.54485	3.70657
-3.60	3.58296	34.66493	38.24789	91.8331	-1.35831	3.59529
-3.40	3.44942	32.04328	36.29270	88.3915	-1.17480	3.46305
-3.20	3.30096	30.81327	34.11422	84.8066	-0.99391	3.31559
-3.00	3.14544	28.68262	31.82806	81.1913	-0.81487	3.16071
-2.80	2.99098	26.56215	29.55312	77.6579	-0.63674	3.00650
-2.60	2.84429	24.54484	27.38913	74.2974	-0.45857	2.85971
-2.40	2.71002	22.69519	25.40521	71.1694	-0.27958	2.72506
-2.20	2.59068	21.04862	23.63931	68.3029	-0.09913	2.60512
-2.00	2.48705	19.61655	22.10360	65.7022	0.08314	2.50073
-1.80	2.39866	18.39331	20.79197	63.3546	0.26742	2.41148
-1.60	2.32427	17.36267	19.68694	61.2370	0.45374	2.33619
-1.40	2.26225	16.50283	18.76507	59.3215	0.64199	2.27325
-1.20	2.21080	15.78982	18.00062	57.5789	0.83200	2.22087
-1.00	2.16809	15.19954	17.36763	55.9807	1.02353	2.17724
-0.80	2.13233	14.70864	16.84097	54.4998	1.21631	2.14055
-0.60	2.10175	14.29463	16.39638	53.1110	1.41003	2.10900
-0.40	2.07454	13.93535	16.00989	51.7902	1.60437	2.08073
-0.20	2.04875	13.60810	15.65685	50.5135	1.79894	2.05370
0.	2.02224	13.28861	15.31086	49.2566	1.99328	2.02565
0.20	1.99261	12.95059	14.94320	47.9940	2.18687	1.99396
0.40	1.95735	12.56662	14.52397	46.7002	2.37912	1.95585
0.60	1.91430	12.11154	14.02584	45.3533	2.56946	1.90874
0.80	1.86231	11.56838	13.43068	43.9402	2.75750	1.85088
1.00	1.80207	10.93473	12.73680	42.4625	2.94322	1.78216
1.20	1.73655	10.22560	11.96216	40.9384	3.12714	1.70435
1.40	1.67085	9.47010	11.14096	39.3984	3.31039	1.62079
1.60	1.61158	8.70343	10.31501	37.8763	3.49470	1.53544
1.80	1.56642	7.95845	9.52487	36.4003	3.68236	1.45198
2.00	1.54425	7.26065	8.80490	34.9872	3.87617	1.37319
2.20	1.55613	6.62736	8.18349	33.6416	4.07950	1.30082
2.40	1.61696	6.07155	7.68851	32.3574	4.29615	1.23601

TABLE H (Continued)

13,400°K

LOG P/P_0	Z	E /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	4.01158	40.33835	44.34993	128.6019	-4.70598	4.01193
-6.80	4.00692	40.21632	44.22324	126.6337	-4.50648	4.00735
-6.60	4.00377	40.13682	44.14059	124.7097	-4.30683	4.00431
-6.40	4.00149	40.08341	44.08490	122.8130	-4.10707	4.00218
-6.20	3.99964	40.04489	44.04453	120.9322	-3.90727	4.00050
-6.00	3.99785	40.01318	44.01103	119.0590	-3.70747	3.99893
-5.80	3.99576	39.98162	43.97738	117.1868	-3.50770	3.99712
-5.60	3.99298	39.94363	43.93662	115.3093	-3.30800	3.99469
-5.40	3.98900	39.89144	43.88044	113.4191	-3.10843	3.99114
-5.20	3.98305	39.81453	43.79757	111.5065	-2.90908	3.98573
-5.00	3.97404	39.69782	43.67187	109.5574	-2.71006	3.97740
-4.80	3.96038	39.51949	43.47986	107.5519	-2.51156	3.96456
-4.60	3.93976	39.24842	43.18819	105.4615	-2.31383	3.94495
-4.40	3.90910	38.84242	42.75152	103.2477	-2.11722	3.91549
-4.20	3.86453	38.24863	42.11316	100.8634	-1.92220	3.87230
-4.00	3.80184	37.40921	41.21104	98.2579	-1.72930	3.81114
-3.80	3.71744	36.27438	39.99182	95.3908	-1.53905	3.72836
-3.60	3.60976	34.82154	38.43130	92.2499	-1.35182	3.62226
-3.40	3.48049	33.07212	36.55261	88.8671	-1.16766	3.49440
-3.20	3.33477	31.09517	34.42994	85.3204	-0.98623	3.34981
-3.00	3.18018	28.99326	32.17344	81.7182	-0.80684	3.19597
-2.80	3.02489	26.87779	29.90268	78.1736	-0.62859	3.04103
-2.60	2.87605	24.84617	27.72222	74.7837	-0.45050	2.89217
-2.40	2.73877	22.96906	25.70783	71.6142	-0.27174	2.75456
-2.20	2.61602	21.28777	23.90379	68.7006	-0.09165	2.63123
-2.00	2.50892	19.81841	22.32732	66.0518	0.09019	2.52337
-1.80	2.41722	18.55856	20.97578	63.6582	0.27402	2.43080
-1.60	2.33984	17.49400	19.83384	61.4989	0.45989	2.35250
-1.40	2.27520	16.60398	18.87918	59.5466	0.64772	2.28690
-1.20	2.22152	15.86498	18.08650	57.7726	0.83736	2.23226
-1.00	2.17698	15.25295	17.47993	56.1481	1.02856	2.18675
-0.80	2.13976	14.74444	16.88419	54.6459	1.22107	2.14856
-0.60	2.10808	14.31684	16.42492	53.2404	1.41459	2.11587
-0.40	2.08013	13.94799	16.02812	51.9073	1.60879	2.08682
-0.20	2.05398	13.61531	15.66929	50.6227	1.80330	2.05940
0.	2.02752	13.29483	15.32235	49.3624	1.99767	2.03136
0.20	1.99838	12.96057	14.95895	48.1010	2.19138	2.00014
0.40	1.96406	12.58521	14.54927	46.8130	2.38386	1.96294
0.60	1.92232	12.14298	14.06530	45.4756	2.57453	1.91709
0.80	1.87182	11.61529	13.48711	44.0740	2.76297	1.86069
1.00	1.81300	10.99717	12.81018	42.6072	2.94910	1.79330
1.20	1.74855	10.30092	12.04947	41.0908	3.13338	1.71644
1.40	1.68337	9.55368	11.23706	39.5535	3.31689	1.63323
1.60	1.62404	8.79003	10.41407	38.0287	3.50130	1.54761
1.80	1.57832	8.04336	9.62168	36.5454	3.68890	1.46335
2.00	1.55525	7.34035	8.89560	35.1219	3.88250	1.38337
2.20	1.56597	6.69976	8.26574	33.7643	4.08549	1.30963
2.40	1.62541	6.13622	7.76162	32.4681	4.30167	1.24342

TABLE H (Continued)
13,500°K

LOG p/p_0	γ	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.01426	40.16054	44.17479	128.7234	-4.70246	4.01460
-6.80	4.00864	40.01383	44.02248	126.7294	-4.50307	4.00908
-6.60	4.00490	39.91869	43.92358	124.7892	-4.30347	4.00544
-6.40	4.00227	39.85558	43.85785	122.8824	-4.10376	4.00295
-6.20	4.00022	39.81137	43.81159	120.9955	-3.90398	4.00107
-6.00	3.99835	39.77676	43.77511	119.1192	-3.70419	3.99942
-5.80	3.99630	39.74451	43.74081	117.2461	-3.50441	3.99764
-5.60	3.99367	39.70787	43.70153	115.3696	-3.30469	3.99536
-5.40	3.98997	39.65931	43.64928	113.4827	-3.10510	3.99208
-5.20	3.98450	39.58901	43.57350	111.5761	-2.90569	3.98715
-5.00	3.97625	39.48309	43.45934	109.6371	-2.70659	3.97957
-4.80	3.96374	39.32154	43.28528	107.6471	-2.50796	3.96789
-4.60	3.94485	39.07566	43.02051	105.5799	-2.31004	3.95000
-4.40	3.91667	38.70606	42.62273	103.3997	-2.11315	3.92302
-4.20	3.87548	38.16236	42.03784	101.0612	-1.91774	3.88323
-4.00	3.81709	37.38744	41.20453	98.5142	-1.72433	3.82641
-3.80	3.73767	36.32869	40.06636	95.7151	-1.53347	3.74866
-3.60	3.63510	34.95609	38.59120	92.6439	-1.34555	3.64776
-3.40	3.51028	33.28038	36.79066	89.3221	-1.16072	3.52446
-3.20	3.36764	31.36027	34.72791	85.8177	-0.97874	3.38306
-3.00	3.21436	29.29208	32.50643	82.2337	-0.79897	3.23066
-2.80	3.05862	27.18651	30.24513	78.6834	-0.62054	3.07538
-2.60	2.90791	25.14473	28.05264	75.2681	-0.44249	2.92473
-2.40	2.76781	23.24323	26.01104	72.0602	-0.26393	2.78436
-2.20	2.64176	21.52922	24.17098	69.1012	-0.08417	2.65775
-2.00	2.53122	20.02370	22.55492	66.4052	0.09726	2.54647
-1.80	2.43622	18.72776	21.16398	63.9660	0.28065	2.45059
-1.60	2.35582	17.62936	19.98518	61.7648	0.46608	2.36923
-1.40	2.28852	16.70900	18.99751	59.7755	0.65349	2.30094
-1.20	2.23256	15.94367	18.17623	57.9696	0.84274	2.24399
-1.00	2.18612	15.30947	17.49559	56.3183	1.03361	2.19654
-0.80	2.14738	14.78287	16.93025	54.7941	1.22584	2.15679
-0.60	2.11454	14.34115	16.45569	53.3712	1.41915	2.12290
-0.40	2.08578	13.96211	16.04789	52.0251	1.61320	2.09301
-0.20	2.05921	13.62327	15.68247	50.7319	1.80763	2.06512
0.	2.03271	13.30091	15.33362	49.4673	2.00201	2.03701
0.20	2.00396	12.96938	14.97334	48.2062	2.19582	2.00615
0.40	1.97047	12.60147	14.57195	46.9229	2.38850	1.96975
0.60	1.92994	12.17098	14.10092	45.5940	2.57948	1.92508
0.80	1.88088	11.65788	13.53876	44.2030	2.76829	1.87005
1.00	1.82346	11.05486	12.87831	42.7468	2.95483	1.80399
1.20	1.76009	10.37153	12.13162	41.2381	3.13947	1.72809
1.40	1.69550	9.63302	11.32852	39.7040	3.32323	1.64531
1.60	1.63618	8.87307	10.50926	38.1772	3.50777	1.55951
1.80	1.58999	8.12547	9.71546	36.6873	3.69533	1.47452
2.00	1.56607	7.41797	8.98404	35.2542	3.88874	1.39344
2.20	1.57569	6.77073	8.34642	33.8850	4.09140	1.31836
2.40	1.63375	6.20006	7.83381	32.5775	4.30712	1.25082

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TABLE H (Continued)
13,600°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.01744	39.99912	44.01656	128.8578	-4.69891	4.01779
-6.80	4.01070	39.82319	43.83389	126.8335	-4.49964	4.01113
-6.60	4.00624	39.70939	43.71563	124.8738	-4.30012	4.00677
-6.40	4.00317	39.63463	43.63779	122.9548	-4.10046	4.00384
-6.20	4.00087	39.58339	43.58427	121.0606	-3.90071	4.00171
-6.00	3.99889	39.54498	43.54386	119.1802	-3.70092	3.99995
-5.80	3.99683	39.51131	43.50815	117.3054	-3.50114	3.99816
-5.60	3.99431	39.47536	43.46968	115.4294	-3.30142	3.99598
-5.40	3.99085	39.42972	43.42058	113.5451	-3.10180	3.99295
-5.20	3.98580	39.36510	43.35091	111.6437	-2.90235	3.98843
-5.00	3.97823	39.26870	43.24693	109.7134	-2.70317	3.98152
-4.80	3.96676	39.12208	43.08885	107.7372	-2.50442	3.97088
-4.60	3.94944	38.89882	42.84826	105.6909	-2.30633	3.95456
-4.40	3.92352	38.56222	42.48574	103.5411	-2.10918	3.92984
-4.20	3.88546	38.06449	41.94996	101.2447	-1.91342	3.89319
-4.00	3.83113	37.34973	41.18086	98.7524	-1.71953	3.84045
-3.80	3.75651	36.36346	40.11997	96.0182	-1.52808	3.76756
-3.60	3.65901	35.06938	38.72638	93.0157	-1.33950	3.67180
-3.40	3.53878	33.46822	37.00700	89.7564	-1.15401	3.55320
-3.20	3.39951	31.60816	35.00767	86.2980	-0.97145	3.41530
-3.00	3.24791	29.57829	32.82620	82.7372	-0.79126	3.26470
-2.80	3.09208	27.48749	30.57957	79.1861	-0.61261	3.10945
-2.60	2.93981	25.43977	28.37958	75.7498	-0.43454	2.95734
-2.40	2.79711	23.51707	26.31417	72.5066	-0.25615	2.81442
-2.20	2.66786	21.77250	24.44037	69.5043	-0.07670	2.68466
-2.00	2.55395	20.23210	22.78605	66.7621	0.10435	2.57001
-1.80	2.45565	18.90067	21.35633	64.2778	0.28731	2.47083
-1.60	2.37220	17.76862	20.14082	62.0347	0.47229	2.38641
-1.40	2.30220	16.81779	19.11999	60.0080	0.65928	2.31538
-1.20	2.24391	16.02587	18.26978	58.1697	0.84814	2.25606
-1.00	2.19553	15.36913	17.56466	56.4911	1.03868	2.20663
-0.80	2.15522	14.82402	16.97924	54.9445	1.23063	2.16526
-0.60	2.12116	14.36773	16.48889	53.5038	1.42371	2.13011
-0.40	2.09155	13.97800	16.06955	52.1442	1.61761	2.09933
-0.20	2.06448	13.63244	15.69692	50.8417	1.81195	2.07091
0.	2.03789	13.30756	15.34545	49.5722	2.00632	2.04267
0.20	2.00946	12.97804	14.98750	48.3106	2.20022	2.01211
0.40	1.97674	12.61684	14.59359	47.0314	2.39309	1.97644
0.60	1.93737	12.19742	14.13479	45.7104	2.58435	1.93289
0.80	1.88972	11.69850	13.58822	44.3299	2.77354	1.87923
1.00	1.83372	11.11052	12.94424	42.8843	2.96047	1.81451
1.20	1.77151	10.44044	12.21195	41.3840	3.14548	1.73965
1.40	1.70757	9.71125	11.41882	39.8538	3.32952	1.65737
1.60	1.64836	8.95567	10.60404	38.3258	3.51419	1.57146
1.80	1.60176	8.20772	9.80949	36.8302	3.70174	1.48582
2.00	1.57704	7.49618	9.07322	35.3877	3.89498	1.40366
2.20	1.58558	6.84261	8.42819	34.0075	4.09733	1.32729
2.40	1.64224	6.26514	7.90738	32.6890	4.31258	1.25842

TABLE H (Continued)
13,700°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.02123	39.85602	43.87725	129.0072	-4.69532	4.02157
-6.80	4.01314	39.64566	43.65880	126.9470	-4.49620	4.01357
-6.60	4.00782	39.50975	43.51758	124.9643	-4.29677	4.00835
-6.40	4.00422	39.42105	43.42527	123.0308	-4.09716	4.00489
-6.20	4.00161	39.36129	43.36290	121.1276	-3.89744	4.00244
-6.00	3.99947	39.31803	43.31750	119.2421	-3.69768	4.00052
-5.80	3.99738	39.28219	43.27956	117.3649	-3.49790	3.99869
-5.60	3.99493	39.24627	43.24120	115.4886	-3.29817	3.99658
-5.40	3.99167	39.20784	43.19452	113.6062	-3.09852	3.99375
-5.20	3.98699	39.14305	43.13004	111.7092	-2.89903	3.98960
-5.00	3.98002	39.05498	43.03500	109.7865	-2.69979	3.98328
-4.80	3.96949	38.92164	42.89113	107.8226	-2.50094	3.97357
-4.60	3.95358	38.71866	42.67224	105.7950	-2.30269	3.95866
-4.40	3.92973	38.41191	42.34164	103.6727	-2.10532	3.93601
-4.20	3.89456	37.95624	41.85080	101.4149	-1.90922	3.90226
-4.00	3.84402	37.29736	41.14138	98.9735	-1.71489	3.85334
-3.80	3.77400	36.37975	40.15375	96.3009	-1.52288	3.78509
-3.60	3.68148	35.16195	38.84343	93.3655	-1.33366	3.69439
-3.40	3.56593	33.63552	37.20145	90.1694	-1.14751	3.58058
-3.20	3.43030	31.83810	35.26840	86.7604	-0.96435	3.44644
-3.00	3.28073	29.85077	33.13150	83.2274	-0.78371	3.29800
-2.80	3.12521	27.77939	30.90460	79.6809	-0.60480	3.14318
-2.60	2.97165	25.73002	28.70168	76.2275	-0.42668	2.98988
-2.40	2.82657	23.78949	26.61605	72.9523	-0.24842	2.84465
-2.20	2.69428	22.01671	24.71099	69.9089	-0.06924	2.71190
-2.00	2.57705	20.44288	23.01994	67.1219	0.11144	2.59395
-1.80	2.47548	19.07675	21.55223	64.5930	0.29398	2.49149
-1.60	2.38897	17.91133	20.30030	62.3081	0.47853	2.40398
-1.40	2.31622	16.93004	19.24626	60.2439	0.66510	2.33018
-1.20	2.25557	16.11131	18.36688	58.3729	0.85358	2.26846
-1.00	2.20519	15.43173	17.63692	56.6666	1.04377	2.21699
-0.80	2.16325	14.86773	17.03099	55.0970	1.23543	2.17396
-0.60	2.12793	14.39644	16.52437	53.6378	1.42828	2.13751
-0.40	2.09741	13.99552	16.09293	52.2641	1.62200	2.10577
-0.20	2.06979	13.64266	15.71244	50.9518	1.81625	2.07676
0.	2.04303	13.31457	15.35760	49.6767	2.01059	2.04862
0.20	2.01486	12.98625	15.00111	48.4139	2.20456	2.01796
0.40	1.98282	12.63087	14.61370	47.1379	2.39760	1.98296
0.60	1.94453	12.22165	14.16619	45.8241	2.58914	1.94047
0.80	1.89825	11.73622	13.63447	44.4535	2.77867	1.88811
1.00	1.84365	11.16296	13.00661	43.0183	2.96600	1.82473
1.20	1.78262	10.50624	12.28886	41.5264	3.15138	1.75094
1.40	1.71942	9.78679	11.50621	40.0006	3.33570	1.66923
1.60	1.66039	9.03622	10.69661	38.4721	3.52053	1.58330
1.80	1.61345	8.28857	9.90202	36.9712	3.70808	1.49707
2.00	1.58799	7.57358	9.16156	35.5201	3.90117	1.41390
2.20	1.59547	6.91418	8.50965	34.1292	4.10321	1.33627
2.40	1.65074	6.33042	7.98116	32.8001	4.31800	1.26613

TABLE H (Continued)
13,800°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.02571	39.73342	43.75913	129.1741	-4.69168	4.02605
-6.80	4.01604	39.48270	43.49873	127.0718	-4.49272	4.01646
-6.60	4.00970	39.32071	43.33041	125.0619	-4.29341	4.01022
-6.40	4.00545	39.21544	43.22089	123.1112	-4.09387	4.00611
-6.20	4.00246	39.14542	43.14788	121.1973	-3.89419	4.00328
-6.00	4.00011	39.09614	43.09624	119.3054	-3.69445	4.00114
-5.80	3.99794	39.05727	43.05521	117.4249	-3.49468	3.99924
-5.60	3.99553	39.02069	43.01622	115.5477	-3.29495	3.99717
-5.40	3.99244	38.97881	42.97125	113.6665	-3.09528	3.99450
-5.20	3.98808	38.92305	42.91113	111.7731	-2.89576	3.99066
-5.00	3.98164	38.84225	42.82389	109.8571	-2.69646	3.98487
-4.80	3.97195	38.72071	42.69266	107.9040	-2.49752	3.97599
-4.60	3.95733	38.53592	42.49324	105.8932	-2.29912	3.96236
-4.40	3.93536	38.25618	42.19154	103.7958	-2.10154	3.94160
-4.20	3.90285	37.83897	41.74182	101.5733	-1.90514	3.91051
-4.00	3.85586	37.23191	41.08777	99.1791	-1.71040	3.86517
-3.80	3.79023	36.37917	40.16940	96.5650	-1.51786	3.80135
-3.60	3.70259	35.23515	38.93774	93.6947	-1.32802	3.71560
-3.40	3.59179	33.78313	37.37492	90.5623	-1.14121	3.60663
-3.20	3.46000	32.05044	35.51044	87.2051	-0.95744	3.47647
-3.00	3.31280	30.10948	33.42228	83.7042	-0.77633	3.33053
-2.80	3.15792	28.06208	31.22000	80.1666	-0.59712	3.17648
-2.60	3.00342	26.01529	29.01871	76.7009	-0.41891	3.02234
-2.40	2.85618	24.06034	26.91652	73.3972	-0.24074	2.87504
-2.20	2.72099	22.26177	24.98277	70.3150	-0.06179	2.73944
-2.00	2.60054	20.65606	23.25660	67.4845	0.11854	2.61829
-1.80	2.49570	19.25605	21.75176	64.9117	0.30067	2.51257
-1.60	2.40612	18.05761	20.46373	62.5851	0.48480	2.42198
-1.40	2.33060	17.04585	19.37646	60.4832	0.67095	2.34538
-1.20	2.26753	16.20014	18.46767	58.5792	0.85903	2.28120
-1.00	2.21512	15.49739	17.71251	56.8447	1.04888	2.22765
-0.80	2.17151	14.91413	17.08564	55.2517	1.24024	2.18290
-0.60	2.13487	14.42740	16.56227	53.7736	1.43285	2.14509
-0.40	2.10338	14.01481	16.11819	52.3853	1.62640	2.11234
-0.20	2.07515	13.65408	15.72923	51.0625	1.82053	2.08269
0.	2.04815	13.32213	15.37028	49.7811	2.01484	2.05398
0.20	2.02015	12.99424	15.01439	48.5164	2.20886	2.02378
0.40	1.98872	12.64381	14.63254	47.2427	2.40205	1.98934
0.60	1.95145	12.24393	14.19537	45.9352	2.59384	1.94781
0.80	1.90646	11.77128	13.67775	44.5739	2.78371	1.89672
1.00	1.85326	11.21236	13.06563	43.1490	2.97142	1.83465
1.20	1.79343	10.56903	12.36246	41.6657	3.15716	1.76196
1.40	1.73102	9.85972	11.59074	40.1448	3.34178	1.68089
1.60	1.67225	9.11473	10.78698	38.6164	3.52678	1.59500
1.80	1.62505	8.36803	9.99308	37.1111	3.71435	1.50826
2.00	1.59890	7.65018	9.24908	35.6518	3.90730	1.42415
2.20	1.60536	6.98548	8.59084	34.2508	4.10905	1.34531
2.40	1.65923	6.39599	8.05523	32.9117	4.32339	1.27394

TABLE H¹ (Continued)
 13,900°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.03100	39.63366	43.66466	129.3607	-4.68797	4.03134
-6.80	4.01946	39.33590	43.35535	127.2094	-4.48922	4.01988
-6.60	4.01191	39.14329	43.15520	125.1677	-4.29009	4.01243
-6.40	4.00690	39.01845	43.02535	123.1965	-4.09058	4.00755
-6.20	4.00343	38.93619	42.93962	121.2698	-3.89095	4.00425
-6.00	4.00082	38.87956	42.88037	119.3702	-3.69124	4.00184
-5.80	3.99853	38.83673	42.83526	117.4855	-3.49149	3.99982
-5.60	3.99613	38.79876	42.79489	115.6066	-3.29175	3.99775
-5.40	3.99316	38.75774	42.75091	113.7260	-3.09207	3.99520
-5.20	3.98908	38.70527	42.69434	111.8355	-2.89251	3.99163
-5.00	3.98311	38.63076	42.61387	109.9252	-2.69316	3.98631
-4.80	3.97418	38.51966	42.49384	107.9817	-2.49414	3.97818
-4.60	3.96071	38.35115	42.31186	105.9859	-2.29561	3.96570
-4.40	3.94046	38.09582	42.03628	103.9110	-2.09784	3.94666
-4.20	3.91040	37.71370	41.62410	101.7207	-1.90116	3.91803
-4.00	3.86673	37.15454	41.02126	99.3702	-1.70604	3.87601
-3.80	3.80526	36.36281	40.16806	96.8111	-1.51300	3.81639
-3.60	3.72236	35.28971	39.01207	94.0038	-1.32257	3.73545
-3.40	3.61631	33.91123	37.52754	90.9347	-1.13512	3.63134
-3.20	3.48857	32.24473	35.73330	87.6314	-0.95074	3.50533
-3.00	3.34403	30.35352	33.69755	84.1664	-0.76911	3.36220
-2.80	3.19014	28.33438	31.52452	80.6425	-0.58958	3.20927
-2.60	3.03500	26.29439	29.32940	77.1688	-0.41123	3.05462
-2.40	2.88586	24.32854	27.21440	73.8400	-0.23311	2.90551
-2.20	2.74795	22.50678	25.25473	70.7215	-0.05438	2.76723
-2.00	2.62435	20.87088	23.49523	67.8492	0.12564	2.64297
-1.80	2.51630	19.43792	21.95428	65.2333	0.30738	2.53404
-1.60	2.42364	18.20697	20.63061	62.8654	0.49108	2.44036
-1.40	2.34532	17.16487	19.51019	60.7257	0.67682	2.36094
-1.20	2.27980	16.29206	18.57186	58.7884	0.86451	2.29427
-1.00	2.22530	15.56592	17.79122	57.0253	1.05400	2.23860
-0.80	2.17997	14.96308	17.14305	55.4085	1.24507	2.19208
-0.60	2.14197	14.46054	16.60251	53.9110	1.43743	2.15287
-0.40	2.10946	14.03587	16.14533	52.5076	1.63079	2.11906
-0.20	2.08057	13.66681	15.74738	51.1739	1.82480	2.08871
0.	2.05329	13.33046	15.38375	49.8857	2.01906	2.05968
0.20	2.02541	13.00236	15.02777	48.6184	2.21313	2.02956
0.40	1.99452	12.65622	14.65074	47.3465	2.40645	1.99563
0.60	1.95820	12.26503	14.22322	46.0449	2.59847	1.95503
0.80	1.91449	11.80468	13.71917	44.6925	2.78867	1.90516
1.00	1.86269	11.25990	13.12759	43.2778	2.97675	1.84442
1.20	1.80411	10.63011	12.43422	41.8035	3.16288	1.77287
1.40	1.74256	9.93139	11.67395	40.2882	3.34780	1.69251
1.60	1.68412	9.19257	10.87669	38.7607	3.53299	1.60675
1.80	1.63673	8.44739	10.08411	37.2515	3.72059	1.51957
2.00	1.60994	7.72714	9.33708	35.7847	3.91342	1.43455
2.20	1.61541	7.05749	8.67290	34.3739	4.11490	1.35453
2.40	1.66786	6.46268	8.13053	33.0253	4.32877	1.28197

TABLE H (Continued)
14,000°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.03721	39.57983	43.61704	129.5906	-4.68419	4.03755
-6.80	4.02349	39.22737	43.25086	127.3824	-4.48567	4.02391
-6.60	4.01452	38.99891	43.01343	125.3032	-4.28664	4.01504
-6.40	4.00860	38.85099	42.85958	123.3080	-4.08728	4.00924
-6.20	4.00456	38.75416	42.75873	121.3661	-3.88772	4.00537
-6.00	4.00161	38.68864	42.69025	119.4572	-3.68804	4.00263
-5.80	3.99916	38.64079	42.63995	117.5671	-3.48830	4.00044
-5.60	3.99673	38.60061	42.59734	115.6858	-3.28857	3.99833
-5.40	3.99386	38.55976	42.55362	113.8050	-3.08883	3.99587
-5.20	3.99000	38.50981	42.49981	111.9166	-2.88930	3.99253
-5.00	3.98445	38.44066	42.42511	110.0112	-2.68990	3.98762
-4.80	3.97620	38.33870	42.31490	108.0761	-2.49080	3.98017
-4.60	3.96378	38.18466	42.14843	106.0936	-2.29216	3.96873
-4.40	3.94509	37.95119	41.89629	104.0388	-2.09421	3.95124
-4.20	3.91729	37.60081	41.51809	101.8776	-1.89729	3.92487
-4.00	3.87669	37.08548	40.96217	99.5671	-1.70181	3.88595
-3.80	3.81916	36.35041	40.16958	97.0592	-1.50830	3.83031
-3.60	3.74086	35.34449	39.08535	94.3117	-1.31730	3.75402
-3.40	3.63956	34.03729	37.67685	91.3042	-1.12922	3.65474
-3.20	3.51599	32.43677	35.95276	88.0552	-0.94422	3.53304
-3.00	3.37441	30.59686	33.97127	84.6281	-0.76207	3.39300
-2.80	3.22183	28.60852	31.83035	81.1207	-0.58217	3.24152
-2.60	3.06639	26.57792	29.64430	77.6418	-0.40365	3.08669
-2.40	2.91560	24.60320	27.51880	74.2900	-0.22554	2.93602
-2.20	2.77512	22.75952	25.53464	71.1365	-0.04699	2.79526
-2.00	2.64348	21.09394	23.74242	68.2227	0.13272	2.66800
-1.80	2.53725	19.62808	22.16534	65.5634	0.31409	2.55590
-1.60	2.44152	18.36405	20.80557	63.1535	0.49739	2.45914
-1.40	2.36039	17.29092	19.65131	60.9753	0.68271	2.37687
-1.20	2.29233	16.39022	18.68260	59.0037	0.87001	2.30768
-1.00	2.23575	15.63987	17.87562	57.2111	1.05915	2.24984
-0.80	2.18865	15.01665	17.20530	55.5695	1.24990	2.20151
-0.60	2.14923	14.49752	16.64676	54.0518	1.44201	2.16083
-0.40	2.11566	14.06000	16.17565	52.6324	1.63517	2.12592
-0.20	2.08605	13.68181	15.76785	51.2869	1.82905	2.09481
0.	2.05840	13.34018	15.39859	49.9910	2.02326	2.06538
0.20	2.03056	13.01093	15.04148	48.7202	2.21734	2.03526
0.40	2.00012	12.66799	14.66811	47.4490	2.41078	2.00175
0.60	1.96466	12.28436	14.24902	46.1522	2.60302	1.96197
0.80	1.92214	11.83528	13.75743	44.8078	2.79351	1.91325
1.00	1.87168	11.30391	13.17559	43.4026	2.98196	1.85379
1.20	1.81434	10.68733	12.50168	41.9371	3.16845	1.78338
1.40	1.75368	9.99931	11.75299	40.4274	3.35368	1.70375
1.60	1.69564	9.26710	10.96273	38.9012	3.53906	1.61819
1.80	1.64812	8.52404	10.17216	37.3888	3.72672	1.53064
2.00	1.62075	7.80207	9.42283	35.9151	3.91944	1.44480
2.20	1.62528	7.12815	8.75344	34.4953	4.12066	1.36367
2.40	1.67630	6.52884	8.20514	33.1378	4.33408	1.29000

TABLE H (Continued)

14,100°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.04448	39.51367	43.55815	129.8059	-4.68032	4.04482
-6.80	4.02823	39.09846	43.12669	127.5321	-4.48207	4.02864
-6.60	4.01758	38.82850	42.84608	125.4097	-4.28322	4.01810
-6.40	4.01059	38.65369	42.66427	123.3865	-4.08397	4.01123
-6.20	4.00588	38.53977	42.54565	121.4267	-3.88448	4.00668
-6.00	4.00252	38.46368	42.46620	119.5067	-3.68485	4.00353
-5.80	3.99985	38.40967	42.40952	117.6101	-3.48514	4.00112
-5.60	3.99735	38.36648	42.36383	115.7255	-3.28541	3.99893
-5.40	3.99453	38.32513	42.31966	113.8439	-3.08572	3.99652
-5.20	3.99087	38.27707	42.26794	111.9571	-2.88611	3.99337
-5.00	3.98569	38.21254	42.19823	110.0558	-2.68668	3.98882
-4.80	3.97804	38.11877	42.09681	108.1282	-2.48751	3.98197
-4.60	3.96656	37.97738	41.94444	106.1578	-2.28877	3.97147
-4.40	3.94930	37.76449	41.71379	104.1215	-2.09066	3.95541
-4.20	3.92357	37.44353	41.36709	101.9874	-1.89350	3.93111
-4.00	3.88584	36.96935	40.85519	99.7145	-1.69770	3.89507
-3.80	3.83203	36.28837	40.12040	97.2557	-1.50375	3.84317
-3.60	3.75815	35.34801	39.10616	94.5668	-1.31221	3.77137
-3.40	3.66155	34.11247	37.77401	91.6218	-1.12352	3.67687
-3.20	3.54228	32.58084	36.12312	88.4306	-0.93790	3.55958
-3.00	3.40389	30.79757	34.20146	85.0473	-0.75521	3.42287
-2.80	3.25296	28.84682	32.09978	81.5634	-0.57490	3.27318
-2.60	3.09752	26.83275	29.93026	78.0866	-0.39617	3.11849
-2.40	2.94534	24.85578	27.80112	74.7185	-0.21805	2.96655
-2.20	2.80249	22.99572	25.79821	71.5355	-0.03964	2.82348
-2.00	2.67292	21.30490	23.97783	68.5845	0.13981	2.69334
-1.80	2.55857	19.80947	22.36804	65.8851	0.32082	2.57813
-1.60	2.45977	18.51493	20.97470	63.4356	0.50371	2.47830
-1.40	2.37580	17.41261	19.78841	61.2204	0.68863	2.39318
-1.20	2.30527	16.48535	18.79062	59.2158	0.87554	2.32143
-1.00	2.24647	15.71172	17.95819	57.3945	1.06432	2.26138
-0.80	2.19756	15.06878	17.26633	55.7286	1.25476	2.21120
-0.60	2.15668	14.53349	16.69017	54.1910	1.44660	2.16902
-0.40	2.12199	14.08334	16.20533	52.7559	1.63956	2.13294
-0.20	2.09161	13.69610	15.78770	51.3986	1.83330	2.10102
0.	2.06356	13.34912	15.41267	50.0949	2.02744	2.07115
0.20	2.03569	13.01847	15.05416	48.8203	2.22153	2.04097
0.40	2.00564	12.67839	14.68403	47.5496	2.41507	2.00782
0.60	1.97099	12.30192	14.27291	46.2572	2.60750	1.96881
0.80	1.92963	11.86378	13.79341	44.9206	2.79829	1.92120
1.00	1.88050	11.34569	13.22619	43.5249	2.98709	1.86301
1.20	1.82443	10.74251	12.56694	42.0684	3.17395	1.79377
1.40	1.76472	10.06562	11.83035	40.5651	3.35950	1.71496
1.60	1.70715	9.34063	11.04777	39.0409	3.54509	1.62967
1.80	1.65957	8.60032	10.25989	37.5259	3.73282	1.54182
2.00	1.63169	7.87714	9.50883	36.0458	3.92546	1.45570
2.20	1.63529	7.19937	8.83466	34.6173	4.12641	1.37299
2.40	1.68485	6.59607	8.28092	33.2516	4.33938	1.29828

TABLE H (Continued)

14,200°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.05296	39.49935	43.55231	130.0708	-4.67634	4.05330
-6.80	4.03378	39.01207	43.04584	127.7218	-4.47840	4.03419
-6.60	4.02118	38.69399	42.71517	125.5492	-4.27976	4.02169
-6.40	4.01292	38.48778	42.50070	123.4932	-4.08065	4.01355
-6.20	4.00740	38.35377	42.36117	121.5125	-3.88125	4.00820
-6.00	4.00356	38.26511	42.26867	119.5793	-3.68167	4.00456
-5.80	4.00061	38.20359	42.20421	117.6748	-3.48199	4.00187
-5.60	3.99799	38.15644	42.15443	115.7859	-3.28227	3.99956
-5.40	3.99519	38.11382	42.10901	113.9028	-3.08257	3.99717
-5.20	3.99168	38.06692	42.05860	112.0168	-2.88296	3.99416
-5.00	3.98682	38.00618	41.99300	110.1189	-2.68349	3.98993
-4.80	3.97971	37.91950	41.89922	108.1977	-2.48426	3.98361
-4.60	3.96909	37.79023	41.75932	106.2380	-2.28542	3.97396
-4.40	3.95313	37.59478	41.54791	104.2181	-2.08717	3.95919
-4.20	3.92929	37.30035	41.22965	102.1084	-1.88980	3.93679
-4.00	3.89422	36.86366	40.75789	99.8697	-1.69369	3.90342
-3.80	3.84392	36.23263	40.07654	97.4562	-1.49934	3.85505
-3.60	3.77429	35.35384	39.12812	94.8225	-1.30728	3.78754
-3.40	3.68230	34.18699	37.86929	91.9378	-1.11799	3.69775
-3.20	3.56740	32.72307	36.29048	88.8037	-0.93176	3.58494
-3.00	3.43243	30.99709	34.42951	85.4653	-0.74851	3.45179
-2.80	3.28344	29.08587	32.36931	82.0072	-0.56778	3.30419
-2.60	3.12834	27.09067	30.21902	78.5355	-0.38880	3.14997
-2.40	2.97503	25.11355	28.08858	75.1529	-0.21062	2.99701
-2.20	2.83000	23.23858	26.06859	71.9417	-0.03232	2.85186
-2.00	2.69763	21.52326	24.22089	68.9542	0.14687	2.71896
-1.80	2.58021	19.99840	22.57861	66.2147	0.32754	2.60071
-1.60	2.47837	18.67307	21.15144	63.7257	0.51005	2.49784
-1.40	2.39155	17.54101	19.93256	61.4724	0.69457	2.40985
-1.20	2.31347	16.58650	18.90497	59.4338	0.88109	2.33552
-1.00	2.25745	15.78888	18.04633	57.5830	1.06951	2.27321
-0.80	2.20669	15.12547	17.33215	55.8921	1.25963	2.22113
-0.60	2.16430	14.57330	16.73760	54.3337	1.45121	2.17740
-0.40	2.12845	14.10984	16.23829	52.8820	1.64395	2.14012
-0.20	2.09725	13.71285	15.81009	51.5122	1.83754	2.10734
0.	2.06873	13.35978	15.42851	50.1999	2.03159	2.07696
0.20	2.04077	13.02695	15.06772	48.9208	2.22568	2.04666
0.40	2.01105	12.68887	14.69991	47.6497	2.41931	2.01380
0.60	1.97713	12.31868	14.29581	46.3610	2.61192	1.97550
0.80	1.93686	11.89066	13.82753	45.0314	2.80299	1.92894
1.00	1.88903	11.38527	13.27430	43.6448	2.99213	1.87198
1.20	1.83424	10.79526	12.62950	42.1973	3.17934	1.80392
1.40	1.77552	10.12966	11.90518	40.7004	3.36521	1.72596
1.60	1.71847	9.41228	11.13076	39.1787	3.55103	1.64100
1.80	1.67091	8.67526	10.34617	37.6618	3.73884	1.55292
2.00	1.64256	7.95144	9.59400	36.1760	3.93141	1.46560
2.20	1.64528	7.27036	8.91564	34.7393	4.13213	1.38237
2.40	1.69333	6.66386	8.35719	33.3661	4.34463	1.30669

TABLE H (Continued)

14,300°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.06278	39.51957	43.58234	130.3682	-4.67224	4.06312
-6.80	4.04024	38.95028	42.99052	127.9335	-4.47466	4.04065
-6.60	4.02539	38.57691	42.60229	125.7032	-4.27626	4.02590
-6.40	4.01564	38.33431	42.34995	123.6092	-4.07731	4.01628
-6.20	4.00918	38.17684	42.18602	121.6040	-3.87801	4.00997
-6.00	4.00475	38.07338	42.07813	119.6554	-3.67849	4.00574
-5.80	4.00146	38.00287	42.00434	117.7414	-3.47885	4.00270
-5.60	3.99868	37.95071	41.94939	115.8471	-3.27915	4.00023
-5.40	3.99586	37.90603	41.90189	113.9616	-3.07945	3.99781
-5.20	3.99246	37.85959	41.85205	112.0758	-2.87982	3.99492
-5.00	3.98787	37.80187	41.78975	110.1805	-2.68032	3.99095
-4.80	3.98125	37.72135	41.70260	108.2649	-2.48105	3.98510
-4.60	3.97139	37.60241	41.57380	106.3146	-2.28212	3.97622
-4.40	3.95661	37.42311	41.37972	104.3096	-2.08374	3.96262
-4.20	3.93452	37.15280	41.08731	102.2220	-1.88617	3.94196
-4.00	3.90191	36.75052	40.65243	100.0148	-1.68979	3.91106
-3.80	3.85488	36.16593	40.02081	97.6435	-1.49505	3.86600
-3.60	3.78931	35.34539	39.13470	95.0621	-1.30250	3.80259
-3.40	3.70185	34.24495	37.94680	92.2358	-1.11265	3.71740
-3.20	3.59135	32.84830	36.43965	89.1590	-0.92581	3.60911
-3.00	3.45997	31.18117	34.64115	85.8675	-0.74199	3.47969
-2.80	3.31321	29.31260	32.62581	82.4388	-0.56081	3.33447
-2.60	3.15875	27.34005	30.49880	78.9759	-0.38155	3.18103
-2.40	3.00459	25.36634	28.37093	75.5828	-0.20328	3.02734
-2.20	2.85760	23.47939	26.33699	72.3464	-0.02506	2.88032
-2.00	2.72255	21.74171	24.46426	69.3244	0.15391	2.74481
-1.80	2.60214	20.18881	22.79095	66.5461	0.33427	2.62360
-1.60	2.49728	18.83348	21.33076	64.0172	0.51640	2.51771
-1.40	2.40761	17.67205	20.07966	61.7269	0.70052	2.42685
-1.20	2.33195	16.69039	19.02234	59.6545	0.88665	2.34992
-1.00	2.26869	15.86866	18.13735	57.7739	1.07471	2.28533
-0.80	2.21603	15.18457	17.40060	56.0575	1.26451	2.23131
-0.60	2.17210	14.61524	16.78734	54.4781	1.45582	2.18599
-0.40	2.13504	14.13812	16.27316	53.0094	1.64834	2.14746
-0.20	2.10296	13.73096	15.83393	51.6266	1.84177	2.11376
0.	2.07393	13.37133	15.44525	50.3053	2.03573	2.08283
0.20	2.04582	13.03572	15.08155	49.0211	2.22980	2.05234
0.40	2.01635	12.69895	14.71530	47.7489	2.42350	2.01970
0.60	1.98310	12.33428	14.31738	46.4631	2.61628	1.98203
0.80	1.94336	11.91569	13.85954	45.1401	2.80760	1.93646
1.00	1.89729	11.42246	13.31975	43.7622	2.99707	1.88071
1.20	1.84376	10.84539	12.68915	42.3235	3.18464	1.81382
1.40	1.78607	10.19120	11.97726	40.8335	3.37083	1.73674
1.60	1.72961	9.48184	11.21144	39.3149	3.55688	1.65219
1.80	1.68212	8.74862	10.43075	37.7967	3.74479	1.56395
2.00	1.65313	8.02472	9.67808	36.3058	3.93730	1.47598
2.20	1.65522	7.34090	8.99612	34.8616	4.13779	1.39180
2.40	1.70174	6.73198	8.43373	33.4818	4.34983	1.31523

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TABLE H (Continued)
14,400°K

LOG p/p_0	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	4.07411	39.57799	43.65210	130.7023	-4.66800	4.07445
-6.80	4.04775	38.91595	42.96370	128.1706	-4.47082	4.04816
-6.60	4.03029	38.47925	42.50955	125.8742	-4.27270	4.03080
-6.40	4.01882	38.19464	42.21346	123.7363	-4.07394	4.01945
-6.20	4.01125	38.00990	42.02115	121.7027	-3.87476	4.01204
-6.00	4.00612	37.88910	41.89523	119.7359	-3.67531	4.00710
-5.80	4.00242	37.80789	41.81032	117.8107	-3.47571	4.00365
-5.60	3.99942	37.74956	41.74898	115.9099	-3.27604	4.00096
-5.40	3.99653	37.70197	41.69851	114.0212	-3.07635	3.99847
-5.20	3.99322	37.65527	41.64849	112.1348	-2.87671	3.99565
-5.00	3.98886	37.59986	41.58871	110.2413	-2.67719	3.99191
-4.80	3.98266	37.52460	41.50726	108.3305	-2.47786	3.98648
-4.60	3.97350	37.41484	41.38833	106.3886	-2.27886	3.97828
-4.40	3.95979	37.25007	41.20986	104.3969	-2.08037	3.96575
-4.20	3.93929	37.00169	40.94098	102.3294	-1.88262	3.94668
-4.00	3.90896	36.63102	40.53998	100.1512	-1.68598	3.91806
-3.80	3.86502	36.08962	39.95464	97.8191	-1.49089	3.87610
-3.60	3.80331	35.32411	39.12742	95.2871	-1.29788	3.81661
-3.40	3.72026	34.28774	38.00799	92.5175	-1.10746	3.73590
-3.20	3.61419	32.95762	36.57180	89.4977	-0.92003	3.63214
-3.00	3.48656	31.35058	34.83714	86.2549	-0.73564	3.50661
-2.80	3.34230	29.52746	32.86975	82.8588	-0.55399	3.36403
-2.60	3.18876	27.58114	30.76991	79.4084	-0.37442	3.21167
-2.40	3.03403	25.61438	28.64841	76.0085	-0.19602	3.05755
-2.20	2.88529	23.71840	26.60368	72.7500	-0.01785	2.90887
-2.00	2.74771	21.96050	24.70822	69.6956	0.16093	2.77090
-1.80	2.62439	20.38098	23.00537	66.8796	0.34099	2.64682
-1.60	2.51654	18.99646	21.51300	64.3120	0.52277	2.53795
-1.40	2.42401	17.80602	20.23003	61.9845	0.70650	2.44422
-1.20	2.34575	16.79726	19.14301	59.8780	0.89224	2.36466
-1.00	2.28021	15.95131	18.23152	57.9674	1.07994	2.29776
-0.80	2.22561	15.24630	17.47191	56.2753	1.26941	2.24176
-0.60	2.18009	14.65950	16.83959	54.6243	1.46044	2.19480
-0.40	2.14177	14.16836	16.31013	53.1383	1.65273	2.15497
-0.20	2.10878	13.75062	15.85940	51.7420	1.84599	2.12031
0.	2.07917	13.38393	15.46310	50.4111	2.03985	2.08877
0.20	2.05085	13.04498	15.09584	49.1212	2.23390	2.05804
0.40	2.02157	12.70884	14.73041	47.8473	2.42765	2.02555
0.60	1.98890	12.34897	14.33788	46.5638	2.62058	1.98843
0.80	1.95063	11.93908	13.88971	45.2466	2.81214	1.94379
1.00	1.90528	11.45746	13.36274	43.8769	3.00192	1.88920
1.20	1.85301	10.89308	12.74609	42.4469	3.18984	1.82349
1.40	1.79636	10.25037	12.04673	40.9639	3.37636	1.74733
1.60	1.74054	9.54938	11.28992	39.4487	3.56265	1.66322
1.80	1.69319	8.82049	10.51368	37.9297	3.75067	1.57490
2.00	1.66408	8.09706	9.76114	36.4342	3.94314	1.48634
2.20	1.66512	7.41106	9.07618	34.9831	4.14341	1.40127
2.40	1.71005	6.80066	8.51071	33.5975	4.35497	1.32393

TABLE H (Continued)

14,500°K

LOG p/p_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.08712	39.67759	43.76471	131.0762	-4.66362	4.08746
-6.80	4.05643	38.91154	42.96797	128.4355	-4.46689	4.05684
-6.60	4.03599	38.40287	42.43886	126.0638	-4.26908	4.03650
-6.40	4.02253	38.07004	42.09257	123.8756	-4.07053	4.02316
-6.20	4.01366	37.85376	41.86742	121.8091	-3.87149	4.01444
-6.00	4.00771	37.71277	41.72047	119.8212	-3.67214	4.00868
-5.80	4.00351	37.61896	41.62247	117.8828	-3.47259	4.00472
-5.60	4.00025	37.55316	41.55339	115.9741	-3.27295	4.00175
-5.40	3.99723	37.50174	41.49897	114.0812	-3.07327	3.99915
-5.20	3.99396	37.45402	41.44798	112.1934	-2.87363	3.99636
-5.00	3.98979	37.40019	41.38997	110.3012	-2.67408	3.99281
-4.80	3.98396	37.32938	41.31333	108.3943	-2.47472	3.98774
-4.60	3.97542	37.22769	41.20311	106.4597	-2.27565	3.98016
-4.40	3.96269	37.07598	41.03867	104.4800	-2.07704	3.96860
-4.20	3.94365	36.84748	40.79112	102.4307	-1.87913	3.95099
-4.00	3.91542	36.50575	40.42117	100.2790	-1.68225	3.92448
-3.80	3.87435	36.00436	39.87872	97.9833	-1.48683	3.88541
-3.60	3.81632	35.29061	39.10693	95.4980	-1.29339	3.82962
-3.40	3.73754	34.31566	38.05320	92.7829	-1.10245	3.75325
-3.20	3.63587	33.05089	36.68676	89.8194	-0.91442	3.65400
-3.00	3.51213	31.50466	35.01679	86.6265	-0.72546	3.53248
-2.80	3.37059	29.72940	33.09999	83.2658	-0.54733	3.39278
-2.60	3.21828	27.81267	31.03095	79.8310	-0.36741	3.24180
-2.40	3.06326	25.85633	28.91959	76.4287	-0.18885	3.08753
-2.20	2.91298	23.95434	26.86732	73.1508	-0.01070	2.93743
-2.00	2.77303	22.17855	24.95158	70.0663	0.16792	2.79716
-1.80	2.64689	20.57397	23.27086	67.2143	0.34770	2.67031
-1.60	2.53609	19.16123	21.69732	64.6088	0.52913	2.55850
-1.40	2.44070	17.94229	20.38299	62.2445	0.71248	2.46192
-1.20	2.35982	16.90662	19.26644	60.1040	0.89785	2.37971
-1.00	2.29198	16.03642	18.32840	58.1632	1.08518	2.31047
-0.80	2.23540	15.31034	17.54575	56.3950	1.27432	2.25246
-0.60	2.18825	14.70584	16.89408	54.7723	1.46506	2.20382
-0.40	2.14864	14.20037	16.34900	53.2685	1.65713	2.16264
-0.20	2.11468	13.77169	15.88637	51.8583	1.85021	2.12698
0.	2.08445	13.39750	15.48195	50.5173	2.04396	2.09477
0.20	2.05587	13.05470	15.11056	49.2212	2.23796	2.06374
0.40	2.02670	12.71858	14.74528	47.9450	2.43176	2.03134
0.60	1.99456	12.36280	14.35737	46.6631	2.62482	1.99472
0.80	1.95719	11.96092	13.91311	45.3511	2.81660	1.95094
1.00	1.91301	11.49036	13.40337	43.9891	3.00669	1.89747
1.20	1.86199	10.93836	12.80034	42.5677	3.19494	1.83292
1.40	1.80641	10.30716	12.11357	41.0918	3.38178	1.75770
1.60	1.75127	9.61486	11.36614	39.5805	3.56832	1.67411
1.80	1.70412	8.89079	10.59491	38.0613	3.75647	1.58576
2.00	1.67471	8.16838	9.84309	36.5618	3.94891	1.49669
2.20	1.67496	7.48079	9.15574	35.1043	4.14897	1.41079
2.40	1.71821	6.86995	8.58816	33.7141	4.36004	1.33280

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TABLE H (Continued)
14,600°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	4.10195	39.82166	43.92361	131.4932	-4.65906	4.10230
-6.80	4.06641	38.93989	43.05630	128.7312	-4.46284	4.06683
-6.60	4.04250	38.34994	42.39252	126.2744	-4.26539	4.04309
-6.40	4.02683	37.96207	41.98890	124.0287	-4.06708	4.02745
-6.20	4.01645	37.70950	41.72596	121.9243	-3.86820	4.01723
-6.00	4.00954	37.54510	41.55463	119.9119	-3.66895	4.01050
-5.80	4.00474	37.43655	41.44129	117.9581	-3.46947	4.00595
-5.60	4.00112	37.36184	41.36296	116.0400	-3.26987	4.00263
-5.40	3.99797	37.30556	41.30353	114.1419	-3.07021	3.99987
-5.20	3.99469	37.25603	41.25073	112.2520	-2.87056	3.99708
-5.00	3.99067	37.20306	41.19373	110.3603	-2.67100	3.99366
-4.80	3.98516	37.13589	41.12106	108.4565	-2.47160	3.98891
-4.60	3.97719	37.04128	41.01847	106.5284	-2.27247	3.98138
-4.40	3.96534	36.90126	40.86659	104.5593	-2.07377	3.97120
-4.20	3.94763	36.69076	40.63839	102.5265	-1.87571	3.95492
-4.00	3.92134	36.37550	40.29684	100.3990	-1.67861	3.93035
-3.80	3.88296	35.91111	39.79406	98.1370	-1.48288	3.89397
-3.60	3.82840	35.24590	39.07429	95.6955	-1.28903	3.84169
-3.40	3.75373	34.32960	38.08334	93.0325	-1.09758	3.76950
-3.20	3.65643	33.12869	36.78512	90.1245	-0.90899	3.67470
-3.00	3.53665	31.64357	35.18022	86.9823	-0.72346	3.55728
-2.80	3.39805	29.91834	33.31623	83.6594	-0.54082	3.42068
-2.60	3.24723	28.03414	31.28138	80.2449	-0.36053	3.27135
-2.40	3.09220	26.09160	29.18380	76.8423	-0.18178	3.11721
-2.20	2.94062	24.18664	27.12725	73.5485	-0.000361	2.96593
-2.00	2.79846	22.39533	25.19379	70.4362	0.17487	2.82354
-1.80	2.66960	20.76737	23.43697	67.5497	0.35440	2.69402
-1.60	2.55590	19.32745	21.88335	64.9072	0.53550	2.57934
-1.40	2.45768	18.06059	20.53826	62.5065	0.71848	2.47991
-1.20	2.37417	17.01826	19.39243	60.3322	0.90346	2.39506
-1.00	2.30399	16.12384	18.42782	58.3611	1.09043	2.32345
-0.80	2.24541	15.37657	17.62198	56.5667	1.27925	2.26339
-0.60	2.19659	14.75415	16.95074	54.9218	1.46970	2.21304
-0.40	2.15564	14.23409	16.38972	53.3999	1.66153	2.17048
-0.20	2.12068	13.79414	15.91482	51.9755	1.85443	2.13377
0.	2.08977	13.41206	15.50183	50.6240	2.04805	2.10085
0.20	2.06088	13.06490	15.12578	49.3212	2.24200	2.06947
0.40	2.03177	12.72822	14.75999	48.0421	2.43583	2.03709
0.60	2.00009	12.37589	14.37598	46.7612	2.62900	2.00090
0.80	1.96355	11.98135	13.94490	45.4538	2.82099	1.95792
1.00	1.92050	11.52129	13.44178	44.0991	3.01137	1.90552
1.20	1.87070	10.98136	12.85206	42.6860	3.19996	1.84212
1.40	1.81621	10.36168	12.17789	41.2173	3.38712	1.76787
1.60	1.76180	9.67836	11.44016	39.7102	3.57391	1.68484
1.80	1.71490	8.95956	10.67446	38.1914	3.76219	1.59653
2.00	1.68524	8.23872	9.92396	36.6885	3.95401	1.50702
2.20	1.68473	7.55012	9.23485	35.2253	4.15448	1.42035
2.40	1.72621	6.94000	8.66622	33.8316	4.36505	1.34188

TABLE H (Continued)
 14,700°K

LOG p/p_0	γ	F /RT	H /RT	S /R	LOG P(ATM)	γ^*
-7.00	4.11880	40.01382	44.13261	131.9579	-4.65431	4.11915
-6.80	4.07786	39.00419	43.08205	129.0615	-4.45865	4.07828
-6.60	4.05018	38.32296	42.37314	126.5092	-4.26161	4.05069
-6.40	4.03180	37.87251	41.90432	124.1981	-4.06358	4.03243
-6.20	4.01969	37.57832	41.59801	122.0502	-3.86489	4.02046
-6.00	4.01165	37.38686	41.39851	120.0095	-3.66576	4.01261
-5.80	4.00615	37.26113	41.26728	118.0377	-3.46636	4.00735
-5.60	4.00212	37.17589	41.17800	116.1085	-3.26679	4.00362
-5.40	3.99876	37.11363	41.11239	114.2040	-3.06716	4.00064
-5.20	3.99544	37.06145	41.05689	112.3111	-2.86752	3.99780
-5.00	3.99152	37.00860	41.00012	110.4192	-2.66794	3.99448
-4.80	3.98629	36.94433	40.93062	108.5179	-2.46851	3.99001
-4.60	3.97881	36.85587	40.83468	106.5953	-2.26933	3.98347
-4.40	3.96776	36.72630	40.69406	104.6358	-2.07054	3.97358
-4.20	3.95128	36.53213	40.48341	102.6179	-1.87235	3.95852
-4.00	3.92678	36.24111	40.16789	100.5125	-1.67505	3.93573
-3.80	3.89090	35.81096	39.70186	98.2818	-1.47903	3.90187
-3.60	3.83963	35.19128	39.03091	95.8814	-1.28479	3.85291
-3.40	3.76894	34.33096	38.09990	93.2683	-1.09286	3.78475
-3.20	3.67593	33.19230	36.86822	90.4145	-0.90372	3.69434
-3.00	3.56019	31.76836	35.32854	87.3235	-0.71761	3.58108
-2.80	3.42472	30.09460	33.51932	84.0408	-0.53446	3.44777
-2.60	3.27567	28.24618	31.52184	80.6491	-0.35378	3.30036
-2.40	3.12091	26.32070	29.44161	77.2507	-0.17480	3.14665
-2.20	2.96824	24.41578	27.38402	73.9436	0.00342	2.99441
-2.00	2.82404	22.61133	25.43537	70.8058	0.18179	2.85008
-1.80	2.69256	20.96165	23.65421	67.8865	0.36103	2.71800
-1.60	2.57602	19.49561	22.07162	65.2079	0.54187	2.60050
-1.40	2.47497	18.22137	20.69634	62.7712	0.72449	2.49825
-1.20	2.38882	17.13260	19.52142	60.5631	0.90910	2.41074
-1.00	2.31628	16.21394	18.53022	58.5616	1.09571	2.33674
-0.80	2.25566	15.44535	17.70100	56.7407	1.28419	2.27460
-0.60	2.20513	14.80478	17.00991	55.0733	1.47435	2.22249
-0.40	2.16280	14.26984	16.43264	53.5329	1.66593	2.17852
-0.20	2.12680	13.81830	15.94509	52.0939	1.85864	2.14072
0.	2.09518	13.42796	15.52314	50.7315	2.05214	2.10704
0.20	2.06592	13.07603	15.14195	49.4215	2.24603	2.07526
0.40	2.03682	12.73812	14.77514	48.1391	2.43987	2.04286
0.60	2.00555	12.38892	14.39447	46.8588	2.63315	2.00705
0.80	1.96981	12.00122	13.97103	45.5555	2.82534	1.96483
1.00	1.92786	11.55128	13.47914	44.2079	3.01599	1.91348
1.20	1.87929	11.02328	12.90257	42.8031	3.20491	1.85124
1.40	1.82592	10.41524	12.24116	41.3418	3.39240	1.77800
1.60	1.77231	9.74123	11.51354	39.8394	3.57946	1.69559
1.80	1.72572	9.02817	10.75390	38.3214	3.76789	1.50739
2.00	1.69586	8.30936	10.00522	36.8157	3.96031	1.51749
2.20	1.69461	7.62025	9.31486	35.3473	4.15999	1.43012
2.40	1.73417	7.01206	8.74623	33.9513	4.37001	1.35131

TABLE H (Continued)
14,800°K

LOG ρ/ρ_0	Z	E /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.13780	40.25679	44.39459	132.4731	-4.64937	4.13816
-6.80	4.09091	39.10725	43.19816	129.4294	-4.45432	4.09133
-6.60	4.05892	38.32427	42.38319	126.7704	-4.25773	4.05943
-6.40	4.03755	37.80314	41.84069	124.3853	-4.06002	4.03817
-6.20	4.02343	37.46146	41.48490	122.1878	-3.86154	4.02420
-6.00	4.01409	37.23891	41.25300	120.1147	-3.66255	4.01504
-5.80	4.00777	37.09329	41.10105	118.1220	-3.46324	4.00895
-5.60	4.00324	36.99567	40.99891	116.1799	-3.26373	4.00472
-5.40	3.99961	36.92617	40.92579	114.2677	-3.06412	4.00148
-5.20	3.99620	36.87044	40.86664	112.3708	-2.86449	3.99854
-5.00	3.99235	36.81696	40.80931	110.4779	-2.66491	3.99528
-4.80	3.98735	36.75484	40.74219	108.5783	-2.46545	3.99104
-4.60	3.98032	36.67165	40.65197	106.6604	-2.26622	3.98493
-4.40	3.96999	36.55138	40.52138	104.7094	-2.06735	3.97576
-4.20	3.95463	36.37199	40.32661	102.7050	-1.86903	3.96181
-4.00	3.93178	36.10311	40.03489	100.6199	-1.67155	3.94068
-3.80	3.89823	35.70456	39.60279	98.4179	-1.47527	3.90915
-3.60	3.85005	35.12745	38.97750	96.0560	-1.28067	3.86331
-3.40	3.78317	34.32030	38.10347	93.4905	-1.08828	3.79901
-3.20	3.69438	33.24201	36.93639	90.6895	-0.89860	3.71290
-3.00	3.58272	31.87891	35.46162	87.6499	-0.71193	3.60384
-2.80	3.45055	30.25815	33.70870	84.4090	-0.52825	3.47398
-2.60	3.30350	28.44795	31.75146	81.0432	-0.34716	3.32875
-2.40	3.14926	26.54273	29.69200	77.6519	-0.16793	3.17572
-2.20	2.99576	24.64083	27.63659	74.3350	0.01037	3.02278
-2.00	2.84970	22.82568	25.67538	71.1742	0.18866	2.87670
-1.80	2.71572	21.15607	23.87180	68.2237	0.36775	2.74219
-1.60	2.59639	19.66506	22.26145	65.5101	0.54823	2.62194
-1.40	2.49254	18.36413	20.85667	63.0380	0.73050	2.51689
-1.20	2.40375	17.24921	19.65295	60.7963	0.91475	2.42673
-1.00	2.32882	16.30639	18.63520	58.7643	1.10100	2.35031
-0.80	2.26613	15.51636	17.78249	56.9167	1.28915	2.28606
-0.60	2.21385	14.85745	17.07130	55.2266	1.47901	2.23216
-0.40	2.17011	14.30736	16.47747	53.6673	1.67034	2.18673
-0.20	2.13301	13.84388	15.97689	52.2132	1.86285	2.14779
0.	2.10063	13.44487	15.54549	50.8395	2.05621	2.11331
0.20	2.07094	13.08765	15.15860	49.5219	2.25003	2.08106
0.40	2.04179	12.74827	14.79006	48.2355	2.44387	2.04858
0.60	2.01085	12.40104	14.41189	46.9550	2.63724	2.01306
0.80	1.97582	12.01937	13.99519	45.6551	2.82961	1.97152
1.00	1.93489	11.57878	13.51366	44.3138	3.02052	1.92116
1.20	1.88750	11.06212	12.94961	42.9168	3.20975	1.86003
1.40	1.83523	10.46546	12.30069	41.4628	3.39755	1.78778
1.60	1.78242	9.80086	11.58328	39.9653	3.58487	1.70602
1.80	1.73620	9.09391	10.83011	38.4486	3.77346	1.61798
2.00	1.70619	8.37769	10.08388	36.9406	3.96589	1.52777
2.20	1.70423	7.68878	9.39301	35.4677	4.16539	1.43979
2.40	1.74171	7.08421	8.82592	34.0713	4.37484	1.36087

TABLE H (Continued)
 14,900°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P(ATM)	Z*
-7.00	4.15911	40.55291	44.71201	133.0412	-4.64421	4.15947
-6.80	4.10570	39.25174	43.35744	129.8377	-4.44983	4.10613
-6.60	4.06890	38.35625	42.42515	127.0605	-4.25374	4.06941
-6.40	4.04415	37.75579	41.79994	124.5923	-4.05639	4.04477
-6.20	4.02775	37.36025	41.38800	122.3384	-3.85815	4.02851
-6.00	4.01690	37.10213	41.11903	120.2281	-3.65932	4.01784
-5.80	4.00962	36.93357	40.94318	118.2115	-3.46011	4.01080
-5.60	4.00450	36.82155	40.82604	116.2542	-3.26067	4.00597
-5.40	4.00054	36.74343	40.74397	114.3329	-3.06109	4.00239
-5.20	3.99699	36.68315	40.68014	112.4311	-2.86148	3.99931
-5.00	3.99316	36.62826	40.62143	110.5364	-2.66190	3.99607
-4.80	3.98836	36.56754	40.55590	108.6378	-2.46242	3.99201
-4.60	3.98171	36.48880	40.47051	106.7238	-2.26314	3.98628
-4.40	3.97204	36.37676	40.34880	104.7802	-2.06420	3.97776
-4.20	3.95770	36.21068	40.16837	102.7880	-1.86577	3.96482
-4.00	3.93637	35.96199	39.89836	100.7213	-1.66812	3.94521
-3.80	3.90498	35.59256	39.49754	98.5459	-1.47160	3.91585
-3.60	3.85971	35.05511	38.91483	96.2199	-1.27666	3.87294
-3.40	3.79647	34.29831	38.09478	93.6995	-1.08383	3.81232
-3.20	3.71179	33.27828	36.99006	90.9497	-0.89363	3.73041
-3.00	3.60422	31.97531	35.57952	87.9613	-0.70640	3.62556
-2.80	3.47548	30.40851	33.88399	84.7636	-0.52220	3.49928
-2.60	3.33067	28.63886	31.96953	81.4262	-0.34068	3.35645
-2.40	3.17722	26.75635	29.93407	78.0455	-0.16117	3.20437
-2.20	3.02312	24.86096	27.88408	74.7217	0.01724	3.05098
-2.00	2.87538	23.03764	25.91302	71.5406	0.19548	2.90333
-1.80	2.73903	21.35000	24.08903	68.5607	0.37438	2.76653
-1.60	2.61699	19.83529	22.45228	65.8133	0.55459	2.64361
-1.40	2.51036	18.50842	21.01879	63.3065	0.73652	2.53581
-1.20	2.41893	17.36777	19.78669	61.0314	0.92041	2.44299
-1.00	2.34160	16.40092	18.74252	58.9689	1.10630	2.36415
-0.80	2.27681	15.58945	17.86625	57.0945	1.29411	2.29776
-0.60	2.22275	14.91207	17.13482	55.3814	1.48368	2.24205
-0.40	2.17756	14.34663	16.52419	53.8031	1.67476	2.19512
-0.20	2.13934	13.87097	16.01031	52.3336	1.86707	2.15501
0.	2.10615	13.46299	15.56914	50.9482	2.06028	2.11968
0.20	2.07601	13.10014	15.17615	49.6225	2.25401	2.08694
0.40	2.04675	12.75868	14.80544	48.3317	2.44785	2.05432
0.60	2.01610	12.41318	14.42927	47.0506	2.64130	2.01906
0.80	1.98174	12.03709	14.01883	45.7538	2.83383	1.97816
1.00	1.94180	11.60547	13.54727	44.4185	3.02499	1.92875
1.20	1.89559	11.09998	12.99557	43.0291	3.21453	1.86873
1.40	1.84446	10.51477	12.35923	41.5826	3.40265	1.79751
1.60	1.79250	9.85988	11.65239	40.0903	3.59025	1.71646
1.80	1.74669	9.15948	10.90618	38.5753	3.77900	1.62866
2.00	1.71659	8.44634	10.16293	37.0655	3.97145	1.53820
2.20	1.71393	7.75813	9.47211	35.5887	4.17078	1.44967
2.40	1.74907	7.15908	8.90815	34.1936	4.37959	1.37091

TABLE H (Concluded)

15,000°K

LOG ρ/ρ_0	Z	F /RT	H /RT	S /R	LOG P (ATM)	Z*
-7.00	4.18284	40.90459	45.08743	133.6652	-4.63884	4.18321
-6.80	4.12239	39.44058	43.56297	130.2896	-4.44516	4.12282
-6.60	4.08027	38.42161	42.50187	127.3825	-4.24962	4.08079
-6.40	4.05171	37.73263	41.70435	124.8215	-4.05267	4.05234
-6.20	4.03271	37.27626	41.30897	122.5040	-3.85471	4.03347
-6.00	4.02013	36.97762	40.99776	120.3513	-3.65607	4.02107
-5.80	4.01174	36.78272	40.79445	118.3071	-3.45698	4.01291
-5.60	4.00592	36.65401	40.65993	116.3323	-3.25761	4.00739
-5.40	4.00157	36.56574	40.56730	114.4003	-3.05808	4.00340
-5.20	3.99783	36.49963	40.49765	112.4925	-2.85849	4.00012
-5.00	3.99398	36.44270	40.43668	110.5951	-2.65890	3.99686
-4.80	3.98932	36.38263	40.37195	108.6968	-2.45941	3.99294
-4.60	3.98302	36.30753	40.29055	106.7859	-2.26010	3.98755
-4.40	3.97293	36.20273	40.17666	104.8489	-2.06109	3.97960
-4.20	3.96052	36.07664	40.00916	102.8676	-1.86256	3.96759
-4.00	3.94059	35.81837	39.75895	100.8177	-1.66475	3.94936
-3.80	3.91121	35.47575	39.38695	98.6667	-1.46800	3.92202
-3.60	3.86868	34.97527	38.84395	96.3743	-1.27275	3.88187
-3.40	3.80890	34.26604	38.07494	93.8965	-1.07951	3.82475
-3.20	3.72822	33.30708	37.09330	91.1962	-0.88881	3.74691
-3.00	3.62473	32.05832	35.68304	88.2584	-0.70103	3.64626
-2.80	3.49954	30.54615	34.04569	85.1050	-0.51630	3.52367
-2.60	3.35717	28.81913	32.17630	81.7986	-0.33434	3.38346
-2.40	3.20475	26.96317	30.16793	78.4315	-0.15451	3.23250
-2.20	3.05030	25.07619	28.12649	75.1039	0.02403	3.07809
-2.00	2.90108	23.24721	26.14829	71.9049	0.20225	2.92908
-1.80	2.76249	21.54343	24.30592	68.8976	0.38099	2.79103
-1.60	2.63781	20.00633	22.64414	66.1176	0.56093	2.66553
-1.40	2.52844	18.65434	21.18276	63.5766	0.74254	2.55500
-1.20	2.43437	17.48834	19.92271	61.2685	0.92608	2.45954
-1.00	2.35462	16.49763	18.85225	59.1756	1.11161	2.37826
-0.80	2.28771	15.66468	17.95239	57.2742	1.29909	2.30971
-0.60	2.23185	14.96869	17.20054	55.5380	1.48836	2.25215
-0.40	2.18517	14.38769	16.57286	53.9402	1.67918	2.20369
-0.20	2.14578	13.89958	16.04536	52.4551	1.87128	2.16237
0.	2.11175	13.48230	15.59405	51.0577	2.06433	2.12616
0.20	2.08109	13.11342	15.19451	49.7234	2.25798	2.09286
0.40	2.05168	12.78940	14.82118	48.4278	2.45180	2.06006
0.60	2.02125	12.42505	14.44630	47.1456	2.64531	2.02499
0.80	1.98750	12.05393	14.04143	45.8512	2.83800	1.98467
1.00	1.94851	11.63072	13.57923	44.5215	3.02939	1.93617
1.20	1.90344	11.13599	13.03943	43.1395	3.21923	1.87724
1.40	1.85344	10.56209	12.41553	41.7004	3.40767	1.80705
1.60	1.80237	9.91705	11.71943	40.2137	3.59554	1.72674
1.80	1.75702	9.22357	10.98060	38.7010	3.78447	1.63923
2.00	1.72686	8.51401	10.24088	37.1700	3.97695	1.54860
2.20	1.72353	7.82726	9.55079	35.7100	4.17611	1.45961
2.40	1.75598	7.23609	8.99207	34.3188	4.38421	1.38136