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PROPERTIES OF HYDROGEN:NITROGEN, HYDROGEN:CARBON-DIOXIDE, AND CARBON-DIOXIDE:NITROGEN MIXTURES

by H. A. Simon, C. S. Liu, and J. P. Hartnett

Prepared under Grant No. NSG-356 by
UNIVERSITY OF DELAWARE
Newark, Del.

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AND CARBON-DIOXIDE:NITROGEN MIXTURES

By H. A. Simon, C. S. Liu and J. P. Hartnett
University of Delaware

SUMMARY

The transport properties of $H_2:N_2$, $H_2:CO_2$ and $CO_2:N_2$ mixtures have been calculated. The pressure is one atmosphere and the temperature ranges from 100°K to 5000°K in steps of 50°K. The mass fraction of Hydrogen varies from 0.0 to 1.0 in steps of .01 and from 0.1 to 1.0 in steps of 0.1. The viscosity and thermal conductivity of $H_2:N_2$ mixtures are presented in graphical form. Perfect gas behavior is assumed, with no dissociation or ionization taking place.

INTRODUCTION

As part of a program investigating transpiration cooling in atmospheres other than air, the transport properties of various gas mixtures have been calculated. The methods used are those described by J. O. Hirschfelder, et. al., and the most recently available values of the force constants have been used.

SYMBOLS

C_p	Specific heat at constant pressure. cal./gm.°K
D_{12}	Diffusion coefficient. cm^2/sec .
k	Thermal conductivity. cal./cm.sec.°K
K	Boltzmann constant.
M	Molecular weight.
P	Pressure, 1 atm.
R	Gas constant.
T	Absolute temperature. °K
T^*	Reduced temperature = $T/(\epsilon/K)$
W	Mass fraction.
x	Mole fraction.
ϵ	Potential function parameter, (ϵ/K in °K).
μ	Coefficient of dynamic viscosity. gm./cm.sec.
ρ	Density. gm./cm^3
σ	Collision diameter Å
Ω	Parameter defined and tabulated in Ref. 2.

Subscripts: 1 Gas 1

2 Gas 2

RANGE OF PARAMETERS

All properties are calculated for a pressure of one atmosphere and for the temperature range 100°K to 5000°K in steps of 50°K. The mass fraction varies from 0.0 to 0.1 in steps of .01 and from 0.1 to 1.0 in steps of 0.1.

ANALYSIS

The following assumptions are made:

- a) Perfect gas behavior.
- b) No dissociation or ionization.

The density and specific heat of a gas mixture are obtained from the perfect gas relationships,

$$\rho = \frac{M_2 P}{\{1 + [(M_2/M_1) - 1]W\}RT} \quad \text{and} \quad C_p = WC_{p1} + (1 - W) C_{p2}$$

The specific heats of the pure components are taken from Ref. 1.

The viscosity of the pure gas is determined from Ref. 2 using

$$\mu \times 10^7 = 266.93 \frac{\sqrt{MT}}{\sigma^2 \Omega(2,2)(T^*)} \quad (1)$$

The thermal conductivity of the pure gas is determined from Ref. 3 including the improved Eucken correction to allow

for the additional degrees of freedom in the polyatomic molecule.

$$k \times 10^7 = \frac{1989.1 \sqrt{T/M}}{\sigma_{12}^2 \Omega_{12}^{(2,2)}(T^*)} \left[0.354 \frac{C_p}{R} + 0.115 \right] \quad (2)$$

The coefficient of ordinary diffusion is calculated from Ref. 2 using

$$D_{12} = 0.002628 \frac{\sqrt{T^3(M_1+M_2)/2M_1M_2}}{\sigma_{12}^2 \Omega_{12}^{(1,1)*}(T_{12}^*)} \quad (3)$$

Other mixture properties are calculated using the empirical mixture rules of Ref. 2.

Values of the force constants required in these expressions are taken from Ref. 4, and are tabulated below

	μ and D_{12}		k	
	σ	ϵ/K	σ	ϵ/K
H ₂	2.968	33.3	2.605	123
N ₂	3.749	79.8	3.767	93
CO ₂	3.897	213	3.721	309

The coefficient of viscosity for binary gas mixture is calculated by Hirschfelder's method,

$$\frac{1}{(\mu_{mix})} = \frac{X_\mu + Y_\mu}{1 + Z_\mu} = X_\mu \left(\frac{1 + Y_\mu/X_\mu}{1 + Z_\mu} \right) \quad (4)$$

$$X_\mu = \frac{x_1^2}{\mu_1} + \frac{2x_1x_2}{\mu_{12}} + \frac{x_2^2}{\mu_2}$$

$$Y_{\mu} = \frac{3}{5} A_{12}^* \left\{ \frac{x_1^2}{\mu_1} \left(\frac{M_1}{M_2} \right) + \frac{2x_1x_2}{\mu_{12}} \left[\frac{(M_1 + M_2)^2}{4M_1M_2} \right] \left[\frac{\mu_{12}^2}{\mu_1\mu_2} \right] + \frac{x_2^2}{\mu_2} \left(\frac{M_2}{M_1} \right) \right\}$$

$$Z_{\mu} = \frac{3}{5} A_{12}^* \left\{ x_1^2 \left(\frac{M_1}{M_2} \right) + 2x_1x_2 \left[\frac{(M_1 + M_2)^2}{4M_1M_2} \left(\frac{\mu_{12}}{\mu_1} + \frac{\mu_{12}}{\mu_2} \right) - 1 \right] + x_2^2 \left(\frac{M_2}{M_1} \right) \right\}$$

where

x_1 = mole fractions of species 1

A_{12}^* = a function of $t/(\epsilon/K)_{12}$ defined by

$A^* = \Omega(2,2)^* / \Omega(1,1)^*$

μ_1 = dynamic viscosity of pure gas defined by equation (1)

μ_{12} = hypothetical pure viscosity defined by

$$\mu_{12} \times 10^7 = 266.93 \frac{\sqrt{2M_1M_2T/(M_1 + M_2)}}{\sigma_{12}^2 \Omega_{12}(2,2)^* (T_{12}^*)} \quad (5)$$

where

$$T_{12}^* = T/(\epsilon/K)_{12}$$

$$\sigma_{12} = (\sigma_1 + \sigma_2)/2$$

$$(\epsilon/K)_{12} = \sqrt{(\epsilon/K)_1 (\epsilon/K)_2}$$

The coefficient of thermal conductivity for a binary gas mixture is calculated by Hirschfelder's method as follows,

$$k_{mix} = k_{mon}(x_1 E_1 + x_2 E_2) \quad (6)$$

$$E_i = (k_i)_{exp}/k_i$$

$$k_{i, x10} = 1989.1 \frac{\sqrt{T/M}}{\sigma^2 \Omega(2,2)^*(T^*)} \quad (7)$$

the pure gas conductivity calculated by equation (2) is used for $(k_i)_{exp}$.

$$\frac{1}{k_{mon}} = \frac{X_k + Y_k}{1 + Z_k} = X_k \left(\frac{1 + Y_k/X_k}{1 + Z_k} \right)$$

$$X_k = \frac{x_1^2}{k_1} + \frac{2x_1x_2}{k_{12}} + \frac{x_2^2}{k_2}$$

$$Y_k = \frac{x_1^2}{k_1} U(1) + \frac{2x_1x_2}{k_{12}} U(Y) + \frac{x_2^2}{k_2} U(2)$$

$$Z_k = x_1^2 U(1) + 2x_1x_2 U(Z) + x_2^2 U(2)$$

$$U(1) = \frac{4}{15} A_{12}^* - \frac{1}{12} \left(\frac{12}{5} B_{12}^* + 1 \right) \frac{M_1}{M_2} + \frac{1}{2} \frac{(M_1 - M_2)^2}{M_1 M_2}$$

$$U(2) = \frac{4}{15} A_{12}^* - \frac{1}{12} \left(\frac{12}{5} B_{12}^* + 1 \right) \frac{M_2}{M_1} + \frac{1}{2} \frac{(M_2 - M_1)^2}{M_1 M_2}$$

$$U(Y) = \frac{4}{15} A_{12}^* \left[\frac{(M_1 + M_2)^2}{4 M_1 M_2} \right] \frac{k_{12}^2}{k_1 k_2} - \frac{1}{12} \left(\frac{12}{5} B_{12}^* + 1 \right) \\ - \frac{5}{32} \frac{A_{12}^*}{A_{12}^*} \left(\frac{12}{5} B_{12}^* - 5 \right) \frac{(M_1 - M_2)^2}{M_1 M_2}$$

$$U(Z) = \frac{4}{15} A_{12}^* \left[\frac{(M_1 + M_2)^2}{4 M_1 M_2} \left(\frac{k_{12}}{k_1} + \frac{k_{12}}{k_2} \right) - 1 \right] \\ - \frac{1}{12} \left(\frac{12}{5} B_{12}^* + 1 \right)$$

where

B_{12}^* = a function of T_{12}^* defined as

$$B^* = (5\Omega^{(1,2)*} - 4\Omega^{(1,3)*})/\Omega^{(1,1)*}$$

k_1 = conductivity of monatomic pure gas defined by equation (7)

k_{12} = hypothetical pure conductivity defined as

$$k_{12} \times 10^7 = 1989.1 \frac{\sqrt{T(M_1 + M_2)/2M_1M_2}}{\sigma_{12}^2 \Omega_{12}^{(2,2)*}(T_{12}^*)} \quad (8)$$

The coefficient of ordinary diffusion is calculated by Hirschfelder's method using:

$$D_{12} = 0.002628 \frac{\sqrt{T^3(M_1 + M_2)/2M_1M_2}}{\sigma_{12}^2 \Omega_{12}^{(1,1)*}(T_{12}^*)} \quad (9)$$

Schmidt number and Prandtl number

The Schmidt number for a gas mixture is defined as

$$Sc = \left(\frac{\mu}{\rho D}\right)_{12} \quad (10)$$

which is a combination of viscosity, density and ordinary diffusion coefficient of the gas mixture.

The Prandtl number of the gas mixture is defined as

$$Pr = \left(\frac{\mu C_p}{k}\right)_{12} \quad (11)$$

which is a combination of viscosity, specific heat and thermal conductivity of the gas mixture.

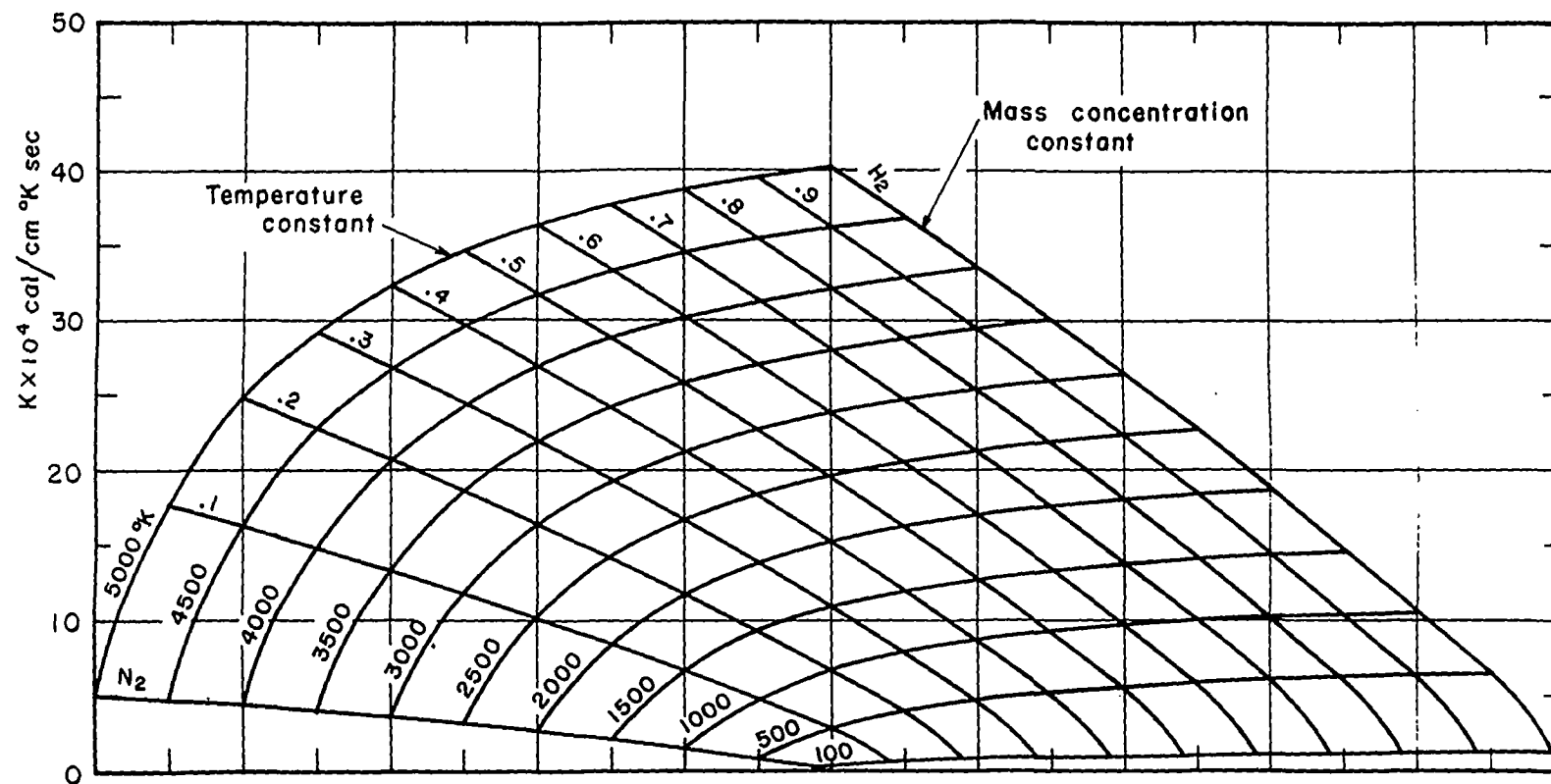
ACKNOWLEDGMENT

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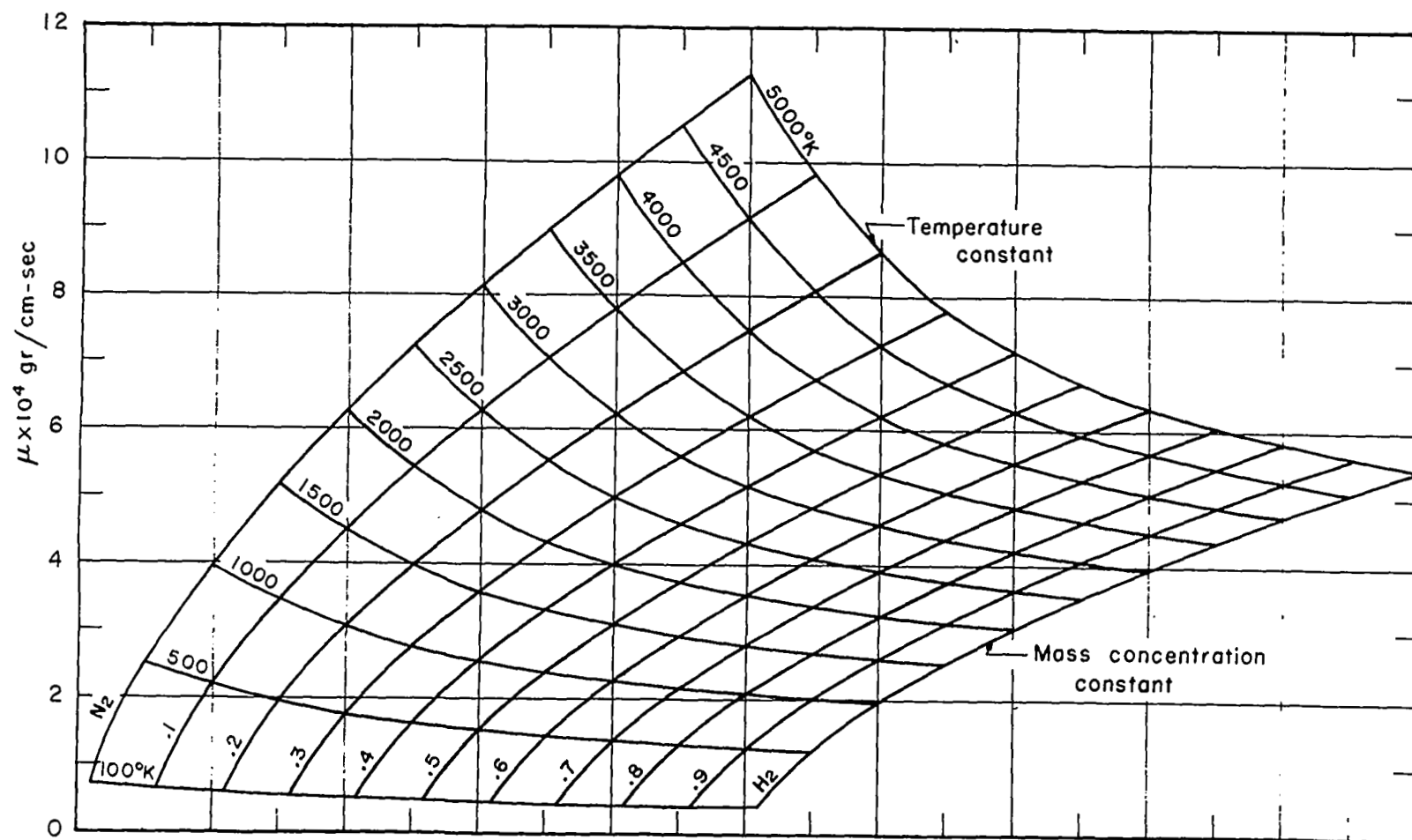
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$\text{H}_2 : \text{N}_2$ THERMAL CONDUCTIVITY

Fig. 1



$\text{H}_2 : \text{N}_2$ VISCOSITY

Fig. 2

SYMBOLS, UNITS AND DEFINITIONS
USED IN TABLES

W - Mass fraction of Hydrogen in Tables 1 and 2
Mass fraction of Carbon Dioxide in Table 3

X - Mole fraction of Hydrogen in Tables 1 and 2
Mole fraction of Carbon Dioxide in Table 3

Temp - Degrees Kelvin

Viscosity - gm/cm.sec.

Conductivity - cal/cm.°K sec.

AE + 03 = AX1000

AE + 04 = AX10000 etc.

Numerical values of viscosity listed = viscosity $\times 10^7$

Numerical values of conductivity listed = conductivity $\times 10^7$

TABLE 1a

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W			
.00	.00000000			
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL
100.	.70670391E+03	.23418683E+03	.24828512	.74924819
150.	.10243700E+04	.34446120E+03	.24829930	.73840058
200.	.13015570E+04	.44224174E+03	.24831349	.73080881
250.	.15470743E+04	.52983951E+03	.24834895	.72515216
300.	.17703445E+04	.60940937E+03	.24846954	.72180819
350.	.19768114E+04	.68364786E+03	.24881000	.71944998
400.	.21699330E+04	.75426005E+03	.24952640	.71786323
450.	.23501954E+04	.82276044E+03	.25069675	.71610922
500.	.25255137E+04	.88915252E+03	.25235653	.71678351
550.	.26935313E+04	.95678415E+03	.25443479	.71628284
600.	.28535622E+04	.10232183E+04	.25686771	.71635542
650.	.30098670E+04	.10908011E+04	.25954179	.71615829
700.	.31604640E+04	.11568475E+04	.26237191	.71679021
750.	.33070968E+04	.12237310E+04	.26526588	.71687318
800.	.34505545E+04	.12894762E+04	.26815984	.71757830
850.	.35787925E+04	.13553746E+04	.27100416	.71557165
900.	.37055117E+04	.14202694E+04	.27376335	.71425407
950.	.38309416E+04	.14832589E+04	.27641615	.71392398
1000.	.39552830E+04	.15427928E+04	.27894128	.71512629
1050.	.40787155E+04	.16019704E+04	.28133873	.71630574
1100.	.42013982E+04	.16607068E+04	.28359432	.71746114
1150.	.43234743E+04	.17190240E+04	.28571514	.71859497
1200.	.44450750E+04	.17769447E+04	.28770829	.71971001
1250.	.45663184E+04	.18344511E+04	.28957376	.72080738
1300.	.46873135E+04	.18916091E+04	.29132574	.72189069
1350.	.48081622E+04	.19484038E+04	.29296424	.72296076
1400.	.49289571E+04	.20048174E+04	.29448924	.72401845
1450.	.50497876E+04	.20609688E+04	.29592204	.72506842
1500.	.51707349E+04	.21168471E+04	.29726263	.72611111
1550.	.52918766E+04	.21724873E+04	.29851810	.72714850
1600.	.54118895E+04	.22279288E+04	.29969554	.72799413
1650.	.55156613E+04	.22832122E+04	.30080206	.72666141
1700.	.56189143E+04	.23383316E+04	.30183764	.72530337
1750.	.57216998E+04	.23933840E+04	.30281649	.72392269
1800.	.58240637E+04	.24483137E+04	.30373149	.72251831
1850.	.59260505E+04	.25032238E+04	.30459684	.72109261
1900.	.60277018E+04	.25523737E+04	.30540545	.72124740
1950.	.61290565E+04	.25998771E+04	.30617859	.72179788
2000.	.62301509E+04	.26470065E+04	.30690208	.72234284
2050.	.63310209E+04	.26938718E+04	.30759011	.72288495
2100.	.64316990E+04	.27404729E+04	.30824267	.72342404
2150.	.65322172E+04	.27868086E+04	.30885976	.72396037
2200.	.66326053E+04	.28329378E+04	.30944849	.72449511
2250.	.67328919E+04	.28787999E+04	.31000175	.72502718
2300.	.68331046E+04	.29245167E+04	.31053372	.72555896
2350.	.69332701E+04	.29700907E+04	.31104442	.72609058
2400.	.70323556E+04	.30154598E+04	.31152675	.72651169
2450.	.71235240E+04	.30606881E+04	.31198780	.72612838
2500.	.72144197E+04	.31057767E+04	.31242757	.72573910
2550.	.73050617E+04	.31507267E+04	.31284606	.72534368
2600.	.73954707E+04	.31956057E+04	.31325036	.72494356
2650.	.74856640E+04	.32404181E+04	.31364048	.72453835
2700.	.75756597E+04	.32850964E+04	.31400932	.72412721

2750.	.76654752E+04	.33297113E+04	.31436397	.72371115
2800.	.77551258E+04	.33736103E+04	.31471153	.72344677
2850.	.78446284E+04	.34144107E+04	.31503781	.72380118
2900.	.79339975E+04	.34551136E+04	.31535700	.72415610
2950.	.80232473E+04	.34956505E+04	.31566200	.72451013
3000.	.81123926E+04	.35360947E+04	.31595991	.72486486
3050.	.82014463E+04	.35763762E+04	.31624363	.72521875
3100.	.82904220E+04	.36165700E+04	.31652026	.72557326
3150.	.83793323E+04	.36567552E+04	.31679689	.72592947
3200.	.84672670E+04	.36967065E+04	.31705224	.72620477
3250.	.85502318E+04	.37366540E+04	.31730759	.72606492
3300.	.86330228E+04	.37765254E+04	.31755584	.72592304
3350.	.87156491E+04	.38163215E+04	.31779701	.72577931
3400.	.87981223E+04	.38559648E+04	.31802398	.72563260
3450.	.88804514E+04	.38956167E+04	.31825096	.72548515
3500.	.89626454E+04	.39352820E+04	.31847794	.72533678
3550.	.90447148E+04	.39747988E+04	.31869073	.72518556
3600.	.91266674E+04	.40143335E+04	.31890352	.72503350
3650.	.92085119E+04	.40537222E+04	.31910213	.72487840
3700.	.92902571E+04	.40931331E+04	.31930073	.72472253
3750.	.93719115E+04	.41311203E+04	.31949934	.72482021
3800.	.94534819E+04	.41680410E+04	.31969085	.72508682
3850.	.95349770E+04	.42048508E+04	.31987527	.72535351
3900.	.96164040E+04	.42416402E+04	.32005969	.72562099
3950.	.96977699E+04	.42783224E+04	.32023702	.72588846
4000.	.97782345E+04	.43149876E+04	.32041434	.72609397
4050.	.98552088E+04	.43515496E+04	.32058458	.72604662
4100.	.99320584E+04	.43880987E+04	.32075481	.72599905
4150.	.10008790E+05	.44246378E+04	.32092504	.72595124
4200.	.10085408E+05	.44610776E+04	.32108818	.72590201
4250.	.10161922E+05	.44974189E+04	.32124423	.72585162
4300.	.10238334E+05	.45337556E+04	.32140028	.72580079
4350.	.10314651E+05	.45700899E+04	.32155632	.72574966
4400.	.10390879E+05	.46064244E+04	.32171237	.72569828
4450.	.10467023E+05	.46426653E+04	.32186132	.72564563
4500.	.10543088E+05	.46789100E+04	.32201028	.72559264
4550.	.10619080E+05	.47151600E+04	.32215923	.72553945
4600.	.10695003E+05	.47514181E+04	.32230819	.72548593
4650.	.10770862E+05	.47875876E+04	.32245005	.72543109
4700.	.10846662E+05	.48219709E+04	.32259191	.72564631
4750.	.10922407E+05	.48563352E+04	.32273377	.72586206
4800.	.10997372E+05	.48906825E+04	.32287563	.72603024
4850.	.11069944E+05	.49250141E+04	.32301749	.72604573
4900.	.11142425E+05	.49592306E+04	.32315226	.72606016
4950.	.11214819E+05	.49935357E+04	.32329412	.72607571
5000.	.11287129E+05	.50277283E+04	.32342889	.72609007

TABLE 1b

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W					
.123	.01000000					
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO	
100.	.70485945E+03	.30171945E+03	.27255440	.63672573	.21071460	
150.	.10179981E+04	.44394282E+03	.27590999	.63268472	.21890471	
200.	.12906551E+04	.57142537E+03	.27816160	.62827220	.22355574	
250.	.15322404E+04	.68624475E+03	.27944856	.62394993	.22604962	
300.	.17519219E+04	.79150629E+03	.28017908	.62014903	.22768827	
350.	.19552889E+04	.88891729E+03	.28080200	.61766042	.22854288	
400.	.21455906E+04	.98134822E+03	.28162951	.61574638	.22904535	
450.	.23235206E+04	.10708990E+04	.28284730	.61369141	.22908897	
500.	.24963596E+04	.11579014E+04	.28452005	.61340659	.22936547	
550.	.26613629E+04	.12449440E+04	.28661696	.61271168	.23026772	
600.	.28184979E+04	.13307057E+04	.28906498	.61225335	.23107290	
650.	.29720958E+04	.14179055E+04	.29177146	.61158711	.23166610	
700.	.31201649E+04	.15034030E+04	.29465214	.61156069	.23190706	
750.	.32649368E+04	.15901346E+04	.29761574	.61107819	.23192831	
800.	.34065763E+04	.16743874E+04	.30059905	.61157501	.23178454	
850.	.35344250E+04	.17591757E+04	.30356277	.60989917	.23076558	
900.	.36608808E+04	.18429567E+04	.30645209	.60874164	.22973324	
950.	.37861708E+04	.19254483E+04	.30926564	.60813499	.22868731	
1000.	.39104945E+04	.20048764E+04	.31196266	.60848050	.22762739	
1050.	.40333556E+04	.20840309E+04	.31454314	.60875503	.22699058	
1100.	.41544532E+04	.21611383E+04	.31701274	.60940778	.22706567	
1150.	.42749341E+04	.22365184E+04	.31934892	.61041102	.22714165	
1200.	.43949289E+04	.23115148E+04	.32156857	.61140469	.22721863	
1250.	.45145537E+04	.23860803E+04	.32367167	.61239896	.22729657	
1300.	.46339163E+04	.24602742E+04	.32567228	.61340235	.22737551	
1350.	.47531083E+04	.25340090E+04	.32755067	.61439552	.22745508	
1400.	.48722148E+04	.26074086E+04	.32932656	.61538099	.22753499	
1450.	.49913367E+04	.26804705E+04	.33100132	.61636156	.22761598	
1500.	.51105540E+04	.27532570E+04	.33258479	.61733884	.22769802	
1550.	.52298841E+04	.28258112E+04	.33408398	.61830755	.22781249	
1600.	.53473836E+04	.28981027E+04	.33549608	.61903472	.22829145	
1650.	.54501503E+04	.29701769E+04	.33682810	.61806544	.22815183	
1700.	.55524036E+04	.30421894E+04	.33809976	.61707739	.22801072	
1750.	.56541991E+04	.31140908E+04	.33930539	.61607073	.22786834	
1800.	.57555883E+04	.31859013E+04	.34044781	.61504648	.22772495	
1850.	.58566139E+04	.32577416E+04	.34154108	.61400640	.22758041	
1900.	.59573178E+04	.33247542E+04	.34256831	.61381626	.22743486	
1950.	.60577380E+04	.33903902E+04	.34355058	.61383477	.22728818	
2000.	.61579111E+04	.34556641E+04	.34447383	.61384415	.22714034	
2050.	.62578598E+04	.35208874E+04	.34537183	.61384763	.22699101	
2100.	.63572098E+04	.35857829E+04	.34621501	.61380219	.22701709	
2150.	.64562591E+04	.36498100E+04	.34702308	.61385959	.22709913	
2200.	.65551683E+04	.37109901E+04	.34779320	.61434895	.22718180	
2250.	.66539656E+04	.37718856E+04	.34852822	.61483696	.22726506	
2300.	.67526782E+04	.38325382E+04	.34923229	.61532412	.22734898	
2350.	.68513274E+04	.38929479E+04	.34990545	.61581011	.22743338	
2400.	.69489784E+04	.39532474E+04	.35056039	.61621149	.22748687	
2450.	.70394523E+04	.40133057E+04	.35118440	.61598741	.22731043	
2500.	.71296697E+04	.40731168E+04	.35178734	.61577598	.22713309	
2550.	.72196470E+04	.41326535E+04	.35235936	.61556336	.22695478	
2600.	.73092207E+04	.41921279E+04	.35291733	.61533203	.22684567	
2650.	.73983601E+04	.42515463E+04	.35346126	.61507823	.22682172	
2700.	.74872980E+04	.43107199E+04	.35397427	.61481860	.22679749	

2750.	.75760559E+04	.43697270E+04	.35446338	.61455425	.22677308
2800.	.76646491E+04	.44282724E+04	.35495532	.61437230	.22674849
2850.	.77530955E+04	.44840994E+04	.35541633	.61452176	.22672378
2900.	.78414099E+04	.45398674E+04	.35587033	.61467105	.22669895
2950.	.79296056E+04	.45956175E+04	.35632014	.61482011	.22667398
3000.	.80176975E+04	.46510799E+04	.35674321	.61496666	.22664886
3050.	.81056913E+04	.47065295E+04	.35716209	.61511260	.22662339
3100.	.81935664E+04	.47619365E+04	.35757395	.61525513	.22661214
3150.	.82811163E+04	.48172683E+04	.35797596	.61537791	.22668853
3200.	.83677722E+04	.48725124E+04	.35836675	.61543841	.22674276
3250.	.84499162E+04	.49264055E+04	.35875755	.61535153	.22667814
3300.	.85318931E+04	.49798099E+04	.35913146	.61529882	.22661329
3350.	.86137005E+04	.50331422E+04	.35949836	.61524413	.22654787
3400.	.86953478E+04	.50863129E+04	.35985121	.61518657	.22648191
3450.	.87768557E+04	.51393775E+04	.36019420	.61512751	.22641566
3500.	.88582329E+04	.51926034E+04	.36054706	.61506908	.22634908
3550.	.89394899E+04	.52455406E+04	.36087600	.61500759	.22628231
3600.	.90206346E+04	.52983784E+04	.36119509	.61494454	.22621524
3650.	.91014568E+04	.53511964E+04	.36150999	.61486577	.22620926
3700.	.91821336E+04	.54039039E+04	.36181504	.61478406	.22621579
3750.	.92627174E+04	.54553812E+04	.36212009	.61484539	.22622232
3800.	.93432166E+04	.55058193E+04	.36240826	.61499635	.22622890
3850.	.94236381E+04	.55562973E+04	.36269926	.61514823	.22623550
3900.	.95039901E+04	.56067817E+04	.36299027	.61530055	.22624212
3950.	.95842780E+04	.56570286E+04	.36326439	.61545152	.22624876
4000.	.96637434E+04	.57074294E+04	.36354837	.61555524	.22623745
4050.	.97400429E+04	.57577422E+04	.36382533	.61546248	.22615410
4100.	.98162224E+04	.58080721E+04	.36410229	.61536925	.22607047
4150.	.98921835E+04	.58582738E+04	.36436938	.61526805	.22601830
4200.	.99679364E+04	.59085412E+04	.36463932	.61516055	.22599515
4250.	.10043586E+05	.59587276E+04	.36490224	.61505194	.22597200
4300.	.10119136E+05	.60084610E+04	.36516516	.61499207	.22594873
4350.	.10194593E+05	.60574378E+04	.36541821	.61499432	.22592540
4400.	.10269961E+05	.61064245E+04	.36567127	.61499648	.22590196
4450.	.10345248E+05	.61554684E+04	.36592716	.61499904	.22587846
4500.	.10420456E+05	.62043740E+04	.36617320	.61500027	.22585488
4550.	.10495593E+05	.62532962E+04	.36641923	.61500158	.22583124
4600.	.10570662E+05	.63023979E+04	.36667513	.61500382	.22580752
4650.	.10645676E+05	.63512519E+04	.36691414	.61500457	.22575746
4700.	.10720666E+05	.63986178E+04	.36715316	.61515258	.22560914
4750.	.10795600E+05	.64459830E+04	.36739217	.61530086	.22546024
4800.	.10869825E+05	.64931894E+04	.36762132	.61541087	.22529714
4850.	.10941879E+05	.65405596E+04	.36786033	.61540348	.22508998
4900.	.11013847E+05	.65878202E+04	.36809232	.61539511	.22488223
4950.	.11085732E+05	.66350115E+04	.36832148	.61538901	.22467383
5000.	.11157540E+05	.66822406E+04	.36855348	.61538492	.22446483

TABLE 1c

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W				
.220	.02000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.70169566E+03	.36147096E+03	.29682369	.57620089	.23373186
150.	.10100333E+04	.53431860E+03	.30352070	.57375133	.24200305
200.	.12780172E+04	.69059100E+03	.30800973	.57000703	.24665465
250.	.15155407E+04	.83166510E+03	.31054818	.56591096	.24912741
300.	.17315395E+04	.96134222E+03	.31188863	.56176403	.25074675
350.	.19316599E+04	.10806836E+04	.31279400	.55910131	.25157324
400.	.21189638E+04	.11935772E+04	.31373264	.55697117	.25204331
450.	.22943741E+04	.13027323E+04	.31499786	.55477470	.25205707
500.	.24646065E+04	.14087657E+04	.31668358	.55403137	.25231641
550.	.26266309E+04	.15137451E+04	.31879914	.55317613	.25322410
600.	.27809460E+04	.16172342E+04	.32126226	.55243265	.25403927
650.	.29319067E+04	.17222615E+04	.32400114	.55156612	.25464012
700.	.30778097E+04	.18254339E+04	.32693238	.55123091	.25487508
750.	.32202175E+04	.19301446E+04	.32996561	.55050849	.25488320
800.	.33599065E+04	.20312212E+04	.33303826	.55088899	.25472441
850.	.34870645E+04	.21331955E+04	.33612140	.54944659	.25368176
900.	.36129393E+04	.22341067E+04	.33914084	.54844972	.25262476
950.	.37377565E+04	.23342585E+04	.34211515	.54781554	.25155323
1000.	.38617123E+04	.24316661E+04	.34498406	.54786678	.25046657
1050.	.39837116E+04	.25288546E+04	.34774756	.54780765	.24980794
1100.	.41031384E+04	.26228331E+04	.35043118	.54821162	.24987960
1150.	.42219445E+04	.27140262E+04	.35298272	.54910059	.24995215
1200.	.43402566E+04	.28048919E+04	.35542886	.54998640	.25002561
1250.	.44581894E+04	.28952965E+04	.35776959	.55089504	.25009995
1300.	.45758489E+04	.29852477E+04	.36001882	.55184422	.25017516
1350.	.46933065E+04	.30746617E+04	.36213711	.55278289	.25024988
1400.	.48106262E+04	.31638325E+04	.36416390	.55371335	.25032279
1450.	.49279427E+04	.32526040E+04	.36608061	.55463997	.25039666
1500.	.50453354E+04	.33411251E+04	.36790695	.55556551	.25047149
1550.	.51627727E+04	.34294478E+04	.36964988	.55647976	.25057947
1600.	.52778255E+04	.35174550E+04	.37129663	.55711837	.25106162
1650.	.53794816E+04	.36051934E+04	.37285416	.55635350	.25091863
1700.	.54806116E+04	.36930134E+04	.37436188	.55557123	.25077270
1750.	.55812850E+04	.37806826E+04	.37579430	.55477151	.25062483
1800.	.56815660E+04	.38683163E+04	.37716414	.55395751	.25047590
1850.	.57814965E+04	.39560483E+04	.37848532	.55313063	.25032577
1900.	.58811171E+04	.40396620E+04	.37973119	.55282929	.25017454
1950.	.59804671E+04	.41220986E+04	.38092257	.55265412	.25002213
2000.	.60795790E+04	.42041759E+04	.38204559	.55246886	.24986840
2050.	.61784497E+04	.42864371E+04	.38315357	.55227568	.24971197
2100.	.62763956E+04	.43682727E+04	.38418736	.55200578	.24973497
2150.	.63739315E+04	.44487951E+04	.38518640	.55186890	.24981524
2200.	.64713168E+04	.45243757E+04	.38613793	.55230179	.24989604
2250.	.65685827E+04	.45996844E+04	.38705469	.55273372	.24997743
2300.	.66657554E+04	.46746556E+04	.38793087	.55316421	.25005948
2350.	.67628442E+04	.47492876E+04	.38876650	.55359191	.25014156
2400.	.68589958E+04	.48239488E+04	.38959404	.55394945	.25019171
2450.	.69486250E+04	.48982723E+04	.39038101	.55378938	.25000940
2500.	.70380104E+04	.49720787E+04	.39114712	.55367132	.24982618
2550.	.71271694E+04	.50454243E+04	.39187267	.55355956	.24964190
2600.	.72157912E+04	.51187276E+04	.39258431	.55342003	.24952863
2650.	.73038027E+04	.51919964E+04	.39328206	.55324662	.24950268
2700.	.73916010E+04	.52649023E+04	.39393923	.55306659	.24947592

2750.	.74792145E+04	.53375277E+04	.39456279	.55288138	.24944873
2800.	.75666670E+04	.54099484E+04	.39519911	.55274834	.24942142
2850.	.76539737E+04	.54799117E+04	.39579486	.55281974	.24939395
2900.	.77411487E+04	.55498587E+04	.39638367	.55289063	.24936630
2950.	.78282076E+04	.56199657E+04	.39697829	.55296216	.24933853
3000.	.79151614E+04	.56895477E+04	.39752652	.55302928	.24931053
3050.	.80020024E+04	.57592974E+04	.39808056	.55309550	.24928168
3100.	.80886901E+04	.58290529E+04	.39862766	.55315600	.24926736
3150.	.81748473E+04	.58986426E+04	.39915504	.55318345	.24934308
3200.	.82601789E+04	.59683264E+04	.39968128	.55315989	.24939632
3250.	.83414074E+04	.60355994E+04	.40020752	.55310064	.24932945
3300.	.84224732E+04	.61020175E+04	.40070709	.55308669	.24926231
3350.	.85033545E+04	.61683766E+04	.40119972	.55306989	.24919395
3400.	.85840451E+04	.62345805E+04	.40167844	.55304856	.24912400
3450.	.86646008E+04	.63005471E+04	.40213745	.55302505	.24905374
3500.	.87450292E+04	.63668541E+04	.40261618	.55300312	.24898313
3550.	.88253410E+04	.64327222E+04	.40306128	.55297789	.24891231
3600.	.89055442E+04	.64983539E+04	.40348666	.55295052	.24884119
3650.	.89852528E+04	.65641332E+04	.40391787	.55289921	.24883232
3700.	.90647791E+04	.66296253E+04	.40432936	.55284516	.24883620
3750.	.91442128E+04	.66939372E+04	.40474085	.55289380	.24884012
3800.	.92235580E+04	.67571824E+04	.40512568	.55299679	.24884400
3850.	.93028252E+04	.68206514E+04	.40552326	.55310142	.24884794
3900.	.93820202E+04	.68841550E+04	.40592085	.55320625	.24885185
3950.	.94611499E+04	.69472707E+04	.40629177	.55330898	.24885580
4000.	.95395255E+04	.70107385E+04	.40668241	.55337354	.24884155
4050.	.96150211E+04	.70741410E+04	.40706609	.55327551	.24875446
4100.	.96904029E+04	.71375900E+04	.40744978	.55317726	.24866706
4150.	.97654854E+04	.72007677E+04	.40781374	.55306590	.24861212
4200.	.98402840E+04	.72642108E+04	.40819047	.55294514	.24858707
4250.	.99149810E+04	.73275957E+04	.40856026	.55282351	.24856198
4300.	.99895792E+04	.73901766E+04	.40893005	.55276610	.24853679
4350.	.10064085E+05	.74513421E+04	.40928011	.55279032	.24851150
4400.	.10138505E+05	.75125326E+04	.40963018	.55281458	.24848612
4450.	.10212843E+05	.75739707E+04	.40999301	.55284003	.24846064
4500.	.10287105E+05	.76351028E+04	.41033613	.55286364	.24843509
4550.	.10361297E+05	.76962685E+04	.41067924	.55288735	.24840949
4600.	.10435421E+05	.77578195E+04	.41104208	.55291272	.24838376
4650.	.10509503E+05	.78189420E+04	.41137824	.55293680	.24832936
4700.	.10583597E+05	.78788195E+04	.41171441	.55305484	.24816768
4750.	.10657637E+05	.79387188E+04	.41205057	.55317306	.24800540
4800.	.10731030E+05	.79982862E+04	.41236702	.55325887	.24782868
4850.	.10802448E+05	.80582357E+04	.41270319	.55324823	.24760730
4900.	.10873785E+05	.81180891E+04	.41303240	.55323678	.24738528
4950.	.10945044E+05	.81776302E+04	.41334885	.55323133	.24716253
5000.	.11016230E+05	.82373682E+04	.41367807	.55323163	.24693910

TABLE 1d

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W				
•300	•03000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	•69756089E+03	•41484826E+03	•32109298	•53991283	•25617642
150.	•10009614E+04	•61682686E+03	•33113140	•53734647	•26441764
200.	•12642319E+04	•80074176E+03	•33785784	•53341872	•26900927
250.	•14976546E+04	•96694882E+03	•34164779	•52915973	•27142725
300.	•17099523E+04	•11197414E+04	•34359818	•52470730	•27300765
350.	•19067634E+04	•12597872E+04	•34478600	•52185426	•27379058
400.	•20909810E+04	•13918647E+04	•34583575	•51954473	•27421400
450.	•22637683E+04	•15192996E+04	•34714842	•51725385	•27419185
500.	•24313345E+04	•16429600E+04	•34884712	•51624143	•27442933
550.	•25904448E+04	•17645650E+04	•35098132	•51525318	•27533932
600.	•27420302E+04	•18843899E+04	•35345953	•51432917	•27616489
650.	•28904357E+04	•20057137E+04	•35623082	•51336449	•27677567
700.	•30339752E+04	•21250476E+04	•35921261	•51285538	•27700368
750.	•31741714E+04	•22461535E+04	•36231547	•51200926	•27699650
800.	•33118374E+04	•23626216E+04	•36547747	•51231305	•27682178
850.	•34380860E+04	•24803301E+04	•36868003	•51104230	•27576166
900.	•35631487E+04	•25968794E+04	•37182958	•51018310	•27468638
950.	•36872486E+04	•27131313E+04	•37496465	•50959118	•27359565
1000.	•38105771E+04	•28269057E+04	•37800546	•50953906	•27248870
1050.	•39315092E+04	•29404910E+04	•38095197	•50934218	•27181006
1100.	•40492243E+04	•30500306E+04	•38384962	•50959921	•27187818
1150.	•41663153E+04	•31559170E+04	•38661652	•51039564	•27194708
1200.	•42829081E+04	•32615606E+04	•38928916	•51119381	•27201682
1250.	•43991157E+04	•33666969E+04	•39186751	•51203614	•27208737
1300.	•45150423E+04	•34712496E+04	•39436536	•51294963	•27215871
1350.	•46307286E+04	•35751985E+04	•39672356	•51385093	•27222764
1400.	•47462136E+04	•36790252E+04	•39900123	•51474096	•27229143
1450.	•48616786E+04	•37823995E+04	•40115990	•51562784	•27235606
1500.	•49772005E+04	•38855666E+04	•40322913	•51651468	•27242148
1550.	•50927094E+04	•39885855E+04	•40521578	•51738798	•27252057
1600.	•52053992E+04	•40912442E+04	•40709718	•51796059	•27300289
1650.	•53058772E+04	•41935884E+04	•40888021	•51732976	•27285857
1700.	•54058050E+04	•42961795E+04	•41062401	•51668076	•27270902
1750.	•55052731E+04	•43985849E+04	•41228320	•51601404	•27255657
1800.	•56043601E+04	•45010226E+04	•41388046	•51533513	•27240297
1850.	•57031079E+04	•46036378E+04	•41542957	•51464509	•27224806
1900.	•58015587E+04	•47026871E+04	•41689406	•51430921	•27209208
1950.	•58997485E+04	•48007080E+04	•41829457	•51405598	•27193478
2000.	•59977095E+04	•48983653E+04	•41961735	•51379240	•27177605
2050.	•60953989E+04	•49964488E+04	•42093531	•51351844	•27161257
2100.	•61919041E+04	•50939894E+04	•42215971	•51314837	•27163214
2150.	•62879087E+04	•51898875E+04	•42334972	•51291753	•27171001
2200.	•63837592E+04	•52791723E+04	•42448264	•51329919	•27178848
2250.	•64794814E+04	•53682176E+04	•42558116	•51367984	•27186750
2300.	•65751029E+04	•54568360E+04	•42662945	•51405842	•27194709
2350.	•66706195E+04	•55450221E+04	•42762754	•51443268	•27202608
2400.	•67652449E+04	•56334082E+04	•42862768	•51474544	•27207197
2450.	•68539274E+04	•57213633E+04	•42957762	•51461402	•27188477
2500.	•69423774E+04	•58084087E+04	•43050691	•51455425	•27169656
2550.	•70306132E+04	•58947714E+04	•43138598	•51450814	•27150728
2600.	•71182044E+04	•59811181E+04	•43225129	•51442772	•27139057
2650.	•72050473E+04	•60674576E+04	•43310285	•51430544	•27136318
2700.	•72916595E+04	•61533152E+04	•43390420	•51417512	•27133412

2750.	.73780817E+04	.62387726E+04	.43466220	.51403912	.27130430
2800.	.74643445E+04	.63242774E+04	.43544291	.51393947	.27127433
2850.	.75504626E+04	.64075036E+04	.43617339	.51397720	.27124417
2900.	.76364522E+04	.64907569E+04	.43689701	.51401449	.27121388
2950.	.77223247E+04	.65743647E+04	.43763643	.51405280	.27118335
3000.	.78080924E+04	.66571873E+04	.43830983	.51408552	.27115256
3050.	.78937249E+04	.67403736E+04	.43899903	.51411653	.27112001
3100.	.79791779E+04	.68236155E+04	.43968136	.51414029	.27110232
3150.	.80639342E+04	.69065860E+04	.44033412	.51412163	.27117679
3200.	.81479287E+04	.69898517E+04	.44099581	.51405989	.27122872
3250.	.82281807E+04	.70698700E+04	.44165749	.51401759	.27116020
3300.	.83082745E+04	.71487062E+04	.44228272	.51402395	.27109139
3350.	.83881588E+04	.72275057E+04	.44290108	.51402581	.27102028
3400.	.84678103E+04	.73061678E+04	.44350567	.51402074	.27094590
3450.	.85473292E+04	.73844479E+04	.44408070	.51401322	.27087120
3500.	.86267236E+04	.74632684E+04	.44468530	.51400765	.27079613
3550.	.87060046E+04	.75414964E+04	.44524655	.51399858	.27072085
3600.	.87851795E+04	.76193407E+04	.44577824	.51398696	.27064521
3650.	.88637230E+04	.76975234E+04	.44632575	.51394553	.27063289
3700.	.89420546E+04	.77752139E+04	.44684367	.51390231	.27063349
3750.	.90202913E+04	.78516681E+04	.44736161	.51394581	.27063410
3800.	.90984399E+04	.79269911E+04	.44784309	.51402522	.27063473
3850.	.91765075E+04	.80027394E+04	.44834726	.51410669	.27063534
3900.	.92545019E+04	.80785515E+04	.44885143	.51418826	.27063594
3950.	.93324291E+04	.81538124E+04	.44931915	.51426730	.27063654
4000.	.94096633E+04	.82296407E+04	.44981644	.51431421	.27061890
4050.	.94842716E+04	.83054287E+04	.45030686	.51422180	.27052818
4100.	.95587690E+04	.83812941E+04	.45079726	.51412905	.27043714
4150.	.96329044E+04	.84567280E+04	.45125809	.51401984	.27037940
4200.	.97066937E+04	.85326449E+04	.45174163	.51389899	.27035234
4250.	.97803832E+04	.86085310E+04	.45221828	.51377732	.27032525
4300.	.98539761E+04	.86833376E+04	.45269494	.51372471	.27029804
4350.	.99274777E+04	.87561531E+04	.45314201	.51375952	.27027074
4400.	.10000894E+05	.88290104E+04	.45358908	.51379442	.27024331
4450.	.10074230E+C5	.89023302E+04	.45405886	.51383100	.27021578
4500.	.10147491E+05	.89751616E+04	.45449906	.51386541	.27018819
4550.	.10220683E+C5	.90480455E+04	.45493925	.51389991	.27016053
4600.	.10293809E+05	.91215419E+04	.45540903	.51393651	.27013274
4650.	.10366902E+05	.91944174E+04	.45584234	.51397196	.27007400
4700.	.10440049E+05	.92662494E+04	.45627566	.51407424	.26989969
4750.	.10513142E+05	.93381264E+04	.45670897	.51417661	.26972465
4800.	.10585642E+05	.94094868E+04	.45711273	.51425033	.26953506
4850.	.10656343E+05	.94814631E+04	.45754604	.51424210	.26930063
4900.	.10726967E+05	.95533629E+04	.45797248	.51423311	.26906547
4950.	.10797518E+05	.96246529E+04	.45837622	.51423417	.26882952
5000.	.10867999E+05	.96962938E+04	.45880266	.51424460	.26859279

TABLE 1e

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X .366	W .04000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.69271830E+03	.46290450E+03	.34536227	.51682098	.27805448
150.	.99114098E+03	.69247671E+03	.35874210	.51346707	.28617041
200.	.12497283E+04	.90278553E+03	.36770597	.50901629	.29065134
250.	.14790730E+04	.10929471E+04	.37274741	.50443486	.29298648
300.	.16877015E+04	.12675824E+04	.37530773	.49969722	.29451176
350.	.18811977E+04	.14271548E+04	.37677800	.49664822	.29523804
400.	.20623028E+04	.15772245E+04	.37793888	.49417467	.29560255
450.	.22324214E+04	.17217284E+04	.37929899	.49180531	.29553910
500.	.23973097E+04	.18617609E+04	.38101065	.49061107	.29575095
550.	.25535889E+04	.19986184E+04	.38316350	.48951023	.29666142
600.	.27025431E+04	.21337558E+04	.38565682	.48845987	.29749868
650.	.28484830E+04	.22700497E+04	.38846050	.48744443	.29812226
700.	.29896880E+04	.24042362E+04	.39149285	.48682463	.29834281
750.	.31276632E+04	.25403754E+04	.39466534	.48590464	.29831841
800.	.32632761E+04	.26709972E+04	.39791668	.48615247	.29812698
850.	.33884593E+04	.28031833E+04	.40123866	.48501316	.29705415
900.	.35125425E+04	.29340845E+04	.40451833	.48426955	.29596540
950.	.36357460E+04	.30650945E+04	.40781416	.48373996	.29486044
1000.	.37582568E+04	.31938539E+04	.41102684	.48366157	.29373819
1050.	.38779786E+04	.33224323E+04	.41415640	.48340777	.29304063
1100.	.39939697E+04	.34463794E+04	.41726804	.48356716	.29310517
1150.	.41093361E+04	.35659521E+04	.42025031	.48428852	.29317040
1200.	.42242018E+04	.36853840E+04	.42314744	.48501556	.29323639
1250.	.43386785E+04	.38042480E+04	.42596543	.48580613	.29330309
1300.	.44528683E+04	.39223572E+04	.42871191	.48669652	.29337052
1350.	.45667780E+04	.40398062E+04	.43131000	.48757215	.29343301
1400.	.46804139E+04	.41572699E+04	.43383857	.48843208	.29348585
1450.	.47940139E+04	.42742346E+04	.43623919	.48928917	.29353932
1500.	.49076548E+04	.43910467E+04	.43855129	.49014698	.29359348
1550.	.50212332E+04	.45077706E+04	.44078168	.49098940	.29368175
1600.	.51316512E+04	.46240944E+04	.44289773	.49151172	.29416198
1650.	.52309134E+04	.47400630E+04	.44490627	.49097788	.29401813
1700.	.53295923E+04	.48564565E+04	.44688614	.49042360	.29386600
1750.	.54278037E+04	.49726302E+04	.44887212	.48985080	.29370958
1800.	.55256457E+04	.50889131E+04	.45059680	.48926718	.29355200
1850.	.56231597E+04	.52054571E+04	.45237381	.48867372	.29339305
1900.	.57203863E+04	.53188722E+04	.45405693	.48833303	.29323292
1950.	.58173619E+04	.54313717E+04	.45566657	.48804932	.29307146
2000.	.59141170E+04	.55434987E+04	.45718911	.48775510	.29290842
2050.	.60105614E+04	.56562936E+04	.45871705	.48744762	.29273791
2100.	.61056135E+04	.57684155E+04	.46013207	.48702949	.29275372
2150.	.62000948E+04	.58786560E+04	.46151304	.48674807	.29282890
2200.	.62944163E+04	.59809425E+04	.46282737	.48708512	.29290461
2250.	.63886055E+04	.60830360E+04	.46410764	.48742118	.29298090
2300.	.64826870E+04	.61846193E+04	.46532804	.48775451	.29305767
2350.	.65766396E+04	.62856837E+04	.46648859	.48808171	.29313293
2400.	.66697360E+04	.63871327E+04	.46766134	.48835334	.29317375
2450.	.67574054E+04	.64880659E+04	.46877422	.48823446	.29298240
2500.	.68448520E+04	.65876039E+04	.46986668	.48821511	.29278995
2550.	.69320955E+04	.66862113E+04	.47089929	.48821651	.29259641
2600.	.70186096E+04	.67848332E+04	.47191827	.48817855	.29247691
2650.	.71042649E+04	.68834801E+04	.47292365	.48809246	.29244852
2700.	.71896692E+04	.69815247E+04	.47386915	.48799689	.29241734

2750.	.72748769E+04	.70790483E+04	.47476162	.48789500	.29238499
2800.	.73599269E+04	.71768645E+04	.47568670	.48782017	.29235244
2850.	.74448340E+04	.72725218E+04	.47655192	.48784314	.29231969
2900.	.75296135E+04	.73682498E+04	.47741035	.48786557	.29228676
2950.	.76142783E+04	.74645336E+04	.47829458	.48788955	.29225362
3000.	.76988368E+04	.75597588E+04	.47909313	.48790707	.29222008
3050.	.77832341E+04	.76555528E+04	.47991750	.48792168	.29218362
3100.	.78674305E+04	.77514505E+04	.48073506	.48792798	.29216232
3150.	.79507972E+04	.78469641E+04	.48151319	.48788469	.29223514
3200.	.80334586E+04	.79429834E+04	.48231033	.48780411	.29228548
3250.	.81126991E+04	.80350928E+04	.48310746	.48777350	.29221582
3300.	.81917863E+04	.81257297E+04	.48385835	.48779178	.29214582
3350.	.82706322E+04	.82163555E+04	.48460244	.48780368	.29207206
3400.	.83491941E+04	.83068686E+04	.48533290	.48780577	.29199286
3450.	.84276259E+04	.83968552E+04	.48602395	.48780500	.29191328
3500.	.85059355E+04	.84875883E+04	.48675442	.48780661	.29183331
3550.	.85841335E+04	.85775749E+04	.48743184	.48780453	.29175308
3600.	.86622278E+04	.86670259E+04	.48806982	.48779961	.29167252
3650.	.87395809E+04	.87570232E+04	.48873363	.48776015	.29165619
3700.	.88166988E+04	.88463035E+04	.48935800	.48772032	.29165299
3750.	.88937210E+04	.89342086E+04	.48998237	.48776188	.29164980
3800.	.89706529E+04	.90208961E+04	.49056051	.48782825	.29164655
3850.	.90475028E+04	.91082189E+04	.49117126	.48789706	.29164330
3900.	.91242779E+04	.91956333E+04	.49178202	.48796593	.29164002
3950.	.92009840E+04	.92823288E+04	.49234653	.48803189	.29163671
4000.	.92770517E+04	.93698129E+04	.49295048	.48807025	.29161524
4050.	.93507188E+04	.94572823E+04	.49354762	.48798638	.29152092
4100.	.94242789E+04	.95448604E+04	.49414475	.48790214	.29142627
4150.	.94974251E+04	.96318395E+04	.49470245	.48779876	.29136570
4200.	.95701773E+04	.97195272E+04	.49529278	.48768212	.29133655
4250.	.96428307E+04	.98072142E+04	.49587630	.48756467	.29130737
4300.	.97153891E+04	.98936041E+04	.49645982	.48751701	.29127808
4350.	.97878567E+04	.99774999E+04	.49700390	.48755729	.29124863
4400.	.98602412E+04	.10061456E+05	.49754799	.48759772	.29121910
4450.	.99325462E+04	.10146099E+05	.49812470	.48764027	.29118945
4500.	.10004777E+05	.10230067E+05	.49866198	.48768027	.29115972
4550.	.10076939E+05	.10314109E+05	.49919926	.48772030	.29112989
4600.	.10149037E+05	.10398996E+05	.49977598	.48776294	.29109997
4650.	.10221113E+05	.10483071E+05	.50030644	.48780444	.29103698
4700.	.10293280E+05	.10566269E+05	.50083691	.48789733	.29085050
4750.	.10365397E+05	.10649539E+05	.50136738	.48799031	.29066332
4800.	.10436969E+05	.10732097E+05	.50185842	.48805752	.29046155
4850.	.10506898E+05	.10815516E+05	.50238889	.48805334	.29021502
4900.	.10576754E+05	.10898881E+05	.50291255	.48804847	.28996769
4950.	.10646541E+05	.10981301E+05	.50340359	.48805755	.28971953
5000.	.10716260E+05	.11064217E+05	.50392726	.48807931	.28947043

TABLE 1f

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X
.422

W
.05000000

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.68736812E+03	.50645262E+03	.36963157	.50167170	.29938068
150.	.98083881E+03	.76210419E+03	.38635280	.49724148	.30728975
200.	.12348201E+04	.99753332E+03	.39755408	.49212166	.31161733
250.	.14601507E+04	.12104695E+04	.40384702	.48714775	.31384616
300.	.16651761E+04	.14057286E+04	.40701728	.48213818	.31530316
350.	.18553909E+04	.15837126E+04	.40877000	.47889252	.31596171
400.	.20334001E+04	.17506710E+04	.41004200	.47626278	.31625671
450.	.22008455E+04	.19111387E+04	.41144955	.47382060	.31614730
500.	.23630764E+04	.20664165E+04	.41317419	.47249050	.31633040
550.	.25166185E+04	.22178729E+04	.41534569	.47129238	.31724050
600.	.26630439E+04	.23668382E+04	.41785410	.47014781	.31809138
650.	.28066114E+04	.25169407E+04	.42069019	.46910672	.31873094
700.	.29455286E+04	.26648363E+04	.42377308	.46840989	.31894376
750.	.30813007E+04	.28148221E+04	.42701521	.46744062	.31890058
800.	.32148596E+04	.29585164E+04	.43035589	.46764442	.31869162
850.	.33388679E+04	.31040811E+04	.43379729	.46660887	.31760969
900.	.34618522E+04	.32482110E+04	.43720708	.46596301	.31651116
950.	.35840302E+04	.33928109E+04	.44066367	.46549953	.31539572
1000.	.37055840E+04	.35353567E+04	.44404824	.46542913	.31426193
1050.	.38239991E+04	.36777105E+04	.44736082	.46515550	.31354608
1100.	.39382745E+04	.38150392E+04	.45068648	.46524476	.31360709
1150.	.40519267E+04	.39473897E+04	.45388411	.46590411	.31366872
1200.	.41650778E+04	.40797122E+04	.45700974	.46657239	.31373102
1250.	.42778372E+04	.42113917E+04	.46006336	.46732202	.31379398
1300.	.43903064E+04	.43421140E+04	.46305845	.46819784	.31385757
1350.	.45024526E+04	.44721259E+04	.46589644	.46905580	.31391306
1400.	.46142499E+04	.46022985E+04	.46867589	.46989294	.31395338
1450.	.47259974E+04	.47319318E+04	.47131848	.47072738	.31399420
1500.	.48377696E+04	.48614727E+04	.47387346	.47156298	.31403549
1550.	.49494383E+04	.49909911E+04	.47634758	.47238170	.31411137
1600.	.50576795E+04	.51200728E+04	.47869829	.47286485	.31458779
1650.	.51557073E+04	.52487628E+04	.48093233	.47240585	.31444594
1700.	.52531148E+04	.53780605E+04	.48314826	.47192351	.31429205
1750.	.53500438E+04	.55071063E+04	.48526102	.47142138	.31413222
1800.	.54466138E+04	.56363420E+04	.48731312	.47090937	.31397113
1850.	.55428666E+04	.57659248E+04	.48931806	.47038849	.31380870
1900.	.56388411E+04	.58927291E+04	.49121980	.47005559	.31364501
1950.	.57345736E+04	.60187032E+04	.49303857	.46976330	.31347993
2000.	.58300919E+04	.61442917E+04	.49476088	.46946034	.31331308
2050.	.59252556E+04	.62707863E+04	.49649879	.46914087	.31313539
2100.	.60188623E+04	.63964713E+04	.49810442	.46869934	.31314731
2150.	.61118413E+04	.65201037E+04	.49967637	.46838865	.31321951
2200.	.62046567E+04	.66347080E+04	.50117209	.46868689	.31329226
2250.	.62973351E+04	.67491731E+04	.50263411	.46898417	.31336549
2300.	.63899012E+04	.68630517E+04	.50402662	.46927816	.31343922
2350.	.64823151E+04	.69763304E+04	.50534963	.46956427	.31351034
2400.	.65738965E+04	.70901890E+04	.50669499	.46979853	.31354543
2450.	.66605117E+04	.72034509E+04	.50797084	.46968400	.31335044
2500.	.67469140E+04	.73147634E+04	.50922647	.46969490	.31315434
2550.	.68331218E+04	.74248811E+04	.51041260	.46973296	.31295708
2600.	.69185338E+04	.75350449E+04	.51158526	.46972777	.31283528
2650.	.70029997E+04	.76452683E+04	.51274444	.46966946	.31280634
2700.	.70871921E+04	.77547710E+04	.51383412	.46960008	.31277323

2750.	.71711801E+04	.78636321E+04	.51486103	.46952363	.31273840
2800.	.72550123E+04	.79730225E+04	.51593050	.46946839	.31270335
2850.	.73387039E+04	.80803300E+04	.51693045	.46948571	.31266809
2900.	.74222691E+04	.81877515E+04	.51792369	.46950240	.31263263
2950.	.75057203E+04	.82959324E+04	.51895272	.46952093	.31259691
3000.	.75890656E+04	.84027769E+04	.51987644	.46953244	.31256071
3050.	.76722201E+04	.85103959E+04	.52083597	.46953962	.31252011
3100.	.77551569E+04	.86181673E+04	.52178876	.46953761	.31249497
3150.	.78371570E+04	.87254360E+04	.52269227	.46948041	.31256579
3200.	.79185032E+04	.88334235E+04	.52362485	.46939049	.31261436
3250.	.79967152E+04	.89369800E+04	.52455744	.46936844	.31254396
3300.	.80747788E+04	.90388044E+04	.52543398	.46939428	.31247327
3350.	.81525658E+04	.91406472E+04	.52630380	.46941165	.31239695
3400.	.82300118E+04	.92424060E+04	.52716014	.46941609	.31231243
3450.	.83073298E+04	.93434921E+04	.52796720	.46941738	.31222755
3500.	.83845278E+04	.94455347E+04	.52882354	.46942134	.31214225
3550.	.84616155E+04	.95466812E+04	.52961711	.46942138	.31205665
3600.	.85386008E+04	.96471404E+04	.53036140	.46941829	.31197068
3650.	.86147583E+04	.97483569E+04	.53114151	.46937712	.31194990
3700.	.86906619E+04	.98486225E+04	.53187232	.46933695	.31194242
3750.	.87664672E+04	.99473123E+04	.53260314	.46937783	.31193488
3800.	.88421821E+04	.10044683E+05	.53327792	.46943645	.31192731
3850.	.89178135E+04	.10142902E+05	.53399526	.46949779	.31191972
3900.	.89933690E+04	.10241239E+05	.53471260	.46955917	.31191207
3950.	.90688538E+04	.10338688E+05	.53537392	.46961740	.31190439
4000.	.91437486E+04	.10437148E+05	.53608452	.46965147	.31187866
4050.	.92164438E+04	.10535620E+05	.53678839	.46957654	.31178072
4100.	.92890352E+04	.10634231E+05	.53749224	.46950120	.31168242
4150.	.93611714E+04	.10732071E+05	.53814681	.46940469	.31161899
4200.	.94328756E+04	.10830849E+05	.53884394	.46929357	.31158766
4250.	.95044822E+04	.10929656E+05	.53953432	.46918167	.31155632
4300.	.95759948E+04	.11026996E+05	.54022471	.46913855	.31152483
4350.	.96474185E+04	.11121400E+05	.54086580	.46918182	.31149320
4400.	.97187592E+04	.11215885E+05	.54150691	.46922513	.31146145
4450.	.97900221E+04	.11311286E+05	.54219055	.46927090	.31142958
4500.	.98612111E+04	.11405824E+05	.54282491	.46931383	.31139762
4550.	.99323333E+04	.11500457E+05	.54345927	.46935687	.31136558
4600.	.10003390E+05	.11596172E+05	.54414293	.46940265	.31133338
4650.	.10074437E+05	.11690883E+05	.54477054	.46944755	.31126617
4700.	.10145613E+05	.11784860E+05	.54539817	.46953452	.31106810
4750.	.10216739E+05	.11878935E+05	.54602579	.46962146	.31086925
4800.	.10287364E+05	.11972103E+05	.54660412	.46968485	.31065584
4850.	.10356485E+05	.12066378E+05	.54723174	.46968504	.31039800
4900.	.10425536E+05	.12160624E+05	.54785263	.46968455	.31013927
4950.	.10494522E+05	.12253562E+05	.54843097	.46970185	.30987964
5000.	.10563444E+05	.12347134E+05	.54905185	.46973479	.30961905

TABLE 1g

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W				
.470	.06000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.68166327E+03	.54613536E+03	.39390086	.49165053	.32017489
150.	.97025361E+03	.82641031E+03	.41396351	.48601714	.32780737
200.	.12197368E+04	.10857042E+04	.42740221	.48016596	.33194565
250.	.14411450E+04	.13202647E+04	.43494664	.47476931	.33404872
300.	.16426552E+04	.15349950E+04	.43872683	.46949788	.33542667
350.	.18296490E+04	.17303453E+04	.44076200	.46605712	.33600815
400.	.20046074E+04	.19131728E+04	.44214512	.46327617	.33622440
450.	.21694036E+04	.20885960E+04	.44360010	.46076294	.33606499
500.	.23290205E+04	.22581040E+04	.44533772	.45932366	.33621685
550.	.24799249E+04	.24230091E+04	.44752786	.45804012	.33712641
600.	.26239248E+04	.25850350E+04	.45005137	.45682201	.33799319
650.	.27652139E+04	.27479203E+04	.45291986	.45577020	.33865203
700.	.29019024E+04	.29085158E+04	.45605332	.45501633	.33885715
750.	.30355070E+04	.30713063E+04	.45936507	.45401065	.33879384
800.	.31670316E+04	.32271187E+04	.46279510	.45417811	.33856652
850.	.32897904E+04	.33850912E+04	.46635591	.45322651	.33747822
900.	.34115929E+04	.35414624E+04	.46989582	.45266418	.33637268
950.	.35326540E+04	.36986251E+04	.47351317	.45226484	.33524959
1000.	.36531507E+04	.38539066E+04	.47706964	.45221832	.33410710
1050.	.37701964E+04	.40089703E+04	.48056523	.45194280	.33337312
1100.	.38827799E+04	.41587634E+04	.48410492	.45197877	.33343077
1150.	.39947425E+04	.43030697E+04	.48751791	.45258585	.33348893
1200.	.41062049E+04	.44474653E+04	.49087003	.45320486	.33354770
1250.	.42172744E+04	.45911323E+04	.49416127	.45392148	.33360704
1300.	.43280516E+04	.47336138E+04	.49740499	.45478877	.33366697
1350.	.44384636E+04	.48753405E+04	.50048288	.45563484	.33371512
1400.	.45484487E+04	.50173780E+04	.50351323	.45645434	.33374163
1450.	.46583707E+04	.51588387E+04	.50639777	.45727122	.33376840
1500.	.47683029E+04	.53002716E+04	.50919563	.45808952	.33379545
1550.	.48780972E+04	.54417501E+04	.51191347	.45888979	.33385757
1600.	.49842576E+04	.55827593E+04	.51449883	.45934179	.33432898
1650.	.50810481E+04	.57233426E+04	.51695838	.45894339	.33419046
1700.	.51771785E+04	.58647176E+04	.51941039	.45851829	.33403552
1750.	.52728173E+04	.60058096E+04	.52174993	.45807179	.33387268
1800.	.53681069E+04	.61471732E+04	.52402945	.45761620	.33370851
1850.	.54630887E+04	.62889693E+04	.52626230	.45715243	.33354298
1900.	.55578011E+04	.64282734E+04	.52838268	.45683274	.33337617
1950.	.56522798E+04	.65668100E+04	.53041056	.45654264	.33320786
2000.	.57465498E+04	.67049453E+04	.53233264	.45624175	.33303760
2050.	.58404181E+04	.68442197E+04	.53428052	.45592072	.33285263
2100.	.59325983E+04	.69825439E+04	.53607677	.45546840	.33286047
2150.	.60241061E+04	.71186977E+04	.53783969	.45513989	.33292955
2200.	.61154481E+04	.72449635E+04	.53951681	.45440422	.33299920
2250.	.62066487E+04	.73711512E+04	.54116058	.45566744	.33306925
2300.	.62977338E+04	.74966807E+04	.54272519	.45592694	.33313978
2350.	.63886420E+04	.76215355E+04	.54421068	.45617673	.33320635
2400.	.64787364E+04	.77471695E+04	.54572863	.45637724	.33323524
2450.	.65642751E+04	.78721314E+04	.54716745	.45626240	.33303701
2500.	.66496098E+04	.79945386E+04	.54858625	.45629706	.33283764
2550.	.67347587E+04	.81154758E+04	.54992591	.45636489	.33263709
2600.	.68190594E+04	.82364936E+04	.55125223	.45638616	.33251339
2650.	.69023451E+04	.83576042E+04	.55256523	.45635038	.33248427
2700.	.69853346E+04	.84778800E+04	.55379908	.45630178	.33244943

2750.	.70681106E+04	.85973942E+04	.55496044	.45624541	.33241215
2800.	.71507332E+04	.87176647E+04	.55617429	.45620633	.33237470
2850.	.72332167E+04	.88358985E+04	.55730899	.45622260	.33233698
2900.	.73155753E+04	.89542866E+04	.55843702	.45623824	.33229902
2950.	.73978219E+04	.90736342E+04	.55961087	.45625616	.33226086
3000.	.74799612E+04	.91913717E+04	.56065975	.45626629	.33222205
3050.	.75618794E+04	.93100869E+04	.56175444	.45627063	.33217709
3100.	.76435666E+04	.94289994E+04	.56284247	.45626515	.33214791
3150.	.77242324E+04	.95472912E+04	.56387135	.45619990	.33221652
3200.	.78042898E+04	.96665132E+04	.56493938	.45610557	.33226317
3250.	.78814698E+04	.97808955E+04	.56600740	.45609016	.33219242
3300.	.79585060E+04	.98933139E+04	.56700960	.45612110	.33212135
3350.	.80352282E+04	.10005782E+05	.56800516	.45614135	.33204252
3400.	.81115499E+04	.10118197E+05	.56898737	.45614543	.33195229
3450.	.81877447E+04	.10229796E+05	.56991044	.45614605	.33186165
3500.	.82638212E+04	.10342562E+05	.57089266	.45614953	.33177056
3550.	.83397886E+04	.10454284E+05	.57180239	.45614898	.33167917
3600.	.84156553E+04	.10565171E+05	.57265297	.45614500	.33158737
3650.	.84906245E+04	.10677027E+05	.57354938	.45610003	.33156173
3700.	.85653245E+04	.10787694E+05	.57438663	.45605741	.33154952
3750.	.86399260E+04	.10896537E+05	.57522389	.45609828	.33153726
3800.	.87144355E+04	.11003951E+05	.57599534	.45615199	.33152495
3850.	.87888604E+04	.11112423E+05	.57681926	.45620868	.33151257
3900.	.88632080E+04	.11221040E+05	.57764318	.45626533	.33150013
3950.	.89374834E+04	.11328602E+05	.57840130	.45631861	.33148764
4000.	.90112123E+04	.11437392E+05	.57921855	.45635065	.33145731
4050.	.90829217E+04	.11546222E+05	.58002914	.45628424	.33135572
4100.	.91545298E+04	.11655219E+05	.58083973	.45621747	.33125371
4150.	.92256508E+04	.11763275E+05	.58159116	.45612781	.33118735
4200.	.92963086E+04	.11872496E+05	.58239508	.45602241	.33115375
4250.	.93668705E+04	.11981775E+05	.58319234	.45591634	.33112016
4300.	.94373388E+04	.12089457E+05	.58398960	.45587719	.33108636
4350.	.95077199E+04	.12193813E+05	.58472770	.45592195	.33105247
4400.	.95780189E+04	.12298271E+05	.58546581	.45596673	.33101843
4450.	.96482412E+04	.12403874E+05	.58625640	.45601423	.33098427
4500.	.97183904E+04	.12508428E+05	.58698784	.45605865	.33095000
4550.	.97884733E+04	.12613099E+05	.58771928	.45610316	.33091564
4600.	.98584921E+04	.12719089E+05	.58850987	.45615058	.33088111
4650.	.99285104E+04	.12823882E+05	.58923464	.45619744	.33080971
4700.	.99986928E+04	.12928068E+05	.58995942	.45628031	.33060043
4750.	.10068826E+05	.13032375E+05	.59068419	.45636319	.33039030
4800.	.10138498E+05	.13135583E+05	.59134983	.45642427	.33016576
4850.	.10206789E+05	.13240142E+05	.59207460	.45642867	.32989723
4900.	.10275015E+05	.13344698E+05	.59279270	.45643249	.32962780
4950.	.10343179E+05	.13447570E+05	.59345834	.45645762	.32935741
5000.	.10411282E+05	.13551198E+05	.59417644	.45650121	.32908594

TABLE 1h

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W				
.511	.07000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.67572119E+03	.58247093E+03	.41817015	.48511679	.34045994
150.	.95953369E+03	.88598877E+03	.44157420	.47822877	.34775611
200.	.12046466E+04	.11679346E+04	.45725032	.47162318	.35167509
250.	.14222412E+04	.14230156E+04	.46604625	.46579262	.35363601
300.	.16203381E+04	.16561354E+04	.47043638	.46026791	.35492607
350.	.18041887E+04	.18678762E+04	.47275400	.45663487	.35542263
400.	.19761613E+04	.20656336E+04	.47424824	.45370631	.35555222
450.	.21383520E+04	.22550909E+04	.47575066	.45112252	.35533928
500.	.22954126E+04	.24379108E+04	.47750126	.44959085	.35545778
550.	.24437814E+04	.26154047E+04	.47971004	.44823135	.35636719
600.	.25854578E+04	.27896232E+04	.48224866	.44695409	.35725238
650.	.27245621E+04	.29643805E+04	.48514954	.44590092	.35793383
700.	.28590879E+04	.31367791E+04	.48833355	.44510258	.35813143
750.	.29905731E+04	.33114518E+04	.49171494	.44406788	.35804678
800.	.31200977E+04	.34785350E+04	.49523432	.44420406	.35780047
850.	.32415589E+04	.36480521E+04	.49891453	.44332173	.35670773
900.	.33621236E+04	.38157880E+04	.50258457	.44283157	.35559717
950.	.34820050E+04	.39846054E+04	.50636267	.44249232	.35446848
1000.	.36013748E+04	.41516938E+04	.51009103	.44247697	.35331945
1050.	.37170150E+04	.43185255E+04	.51376965	.44220866	.35256729
1100.	.38279397E+04	.44799593E+04	.51752334	.44220225	.35262175
1150.	.39382474E+04	.46354739E+04	.52115170	.44276471	.35267667
1200.	.40480562E+04	.47911993E+04	.52473031	.44334154	.35273212
1250.	.41574725E+04	.49460997E+04	.52825919	.44403128	.35278804
1300.	.42665944E+04	.50995666E+04	.53175153	.44489429	.35284441
1350.	.43753098E+04	.52522387E+04	.53506932	.44573259	.35288496
1400.	.44835205E+04	.54053717E+04	.53835056	.44653833	.35289645
1450.	.45916559E+04	.55578960E+04	.54147706	.44734127	.35290807
1500.	.46997888E+04	.57104558E+04	.54451779	.44814611	.35291978
1550.	.48077534E+04	.58631322E+04	.54747937	.44893168	.35296693
1600.	.49119275E+04	.60153092E+04	.55029939	.44935856	.35343258
1650.	.50074886E+04	.61670268E+04	.55298444	.44901105	.35329850
1700.	.51023477E+04	.63197180E+04	.55567252	.44863305	.35314303
1750.	.51967017E+04	.64720989E+04	.55823884	.44823182	.35297753
1800.	.52907160E+04	.66248306E+04	.56074578	.44782225	.35281064
1850.	.53844310E+04	.67780796E+04	.56320655	.44740501	.35264234
1900.	.54778844E+04	.69290704E+04	.56554554	.44710081	.35247270
1950.	.55711120E+04	.70793436E+04	.56778256	.44681828	.35230156
2000.	.56641351E+04	.72291958E+04	.56990440	.44652484	.35212819
2050.	.57567084E+04	.73804116E+04	.57206226	.44620758	.35193575
2100.	.58474899E+04	.75305367E+04	.57404913	.44575128	.35193937
2150.	.59375645E+04	.76784152E+04	.57600301	.44541157	.35200528
2200.	.60274706E+04	.78157212E+04	.57786153	.44564579	.35207169
2250.	.61172331E+04	.79530139E+04	.57968705	.44587886	.35213848
2300.	.62068766E+04	.80895824E+04	.58142377	.44610776	.35220571
2350.	.62963199E+04	.82254058E+04	.58307173	.44632522	.35226751
2400.	.63849613E+04	.83622095E+04	.58476228	.44649497	.35228972
2450.	.64694165E+04	.84982724E+04	.58636405	.44637698	.35208858
2500.	.65536749E+04	.86311368E+04	.58794603	.44643100	.35188622
2550.	.66377554E+04	.87622508E+04	.58943922	.44652377	.35168266
2600.	.67209470E+04	.88934779E+04	.59091921	.44656732	.35155738
2650.	.68030709E+04	.90248314E+04	.59238602	.44655061	.35152847
2700.	.68848737E+04	.91552392E+04	.59376403	.44651922	.35149200

2750.	.69664550E+04	.92847711E+04	.59505986	.44647925	.35145238
2800.	.70478851E+04	.94152746E+04	.59641809	.44645390	.35141255
2850.	.71291774E+04	.95437635E+04	.59768752	.44647169	.35137246
2900.	.72103467E+04	.96724460E+04	.59895036	.44648889	.35133212
2950.	.72914054E+04	.98022852E+04	.60026901	.44650860	.35129149
3000.	.73723556E+04	.99302425E+04	.60144305	.44652001	.35125009
3050.	.74530547E+04	.10059377E+05	.60267291	.44652408	.35120065
3100.	.75335109E+04	.10188753E+05	.60389617	.44651767	.35116723
3150.	.76128791E+04	.10317388E+05	.60505042	.44644784	.35123352
3200.	.76916804E+04	.10447163E+05	.60625390	.44635191	.35127816
3250.	.77678350E+04	.10571782E+05	.60745737	.44634183	.35120733
3300.	.78438498E+04	.10694228E+05	.60858524	.44637641	.35113619
3350.	.79195123E+04	.10816756E+05	.60970652	.44639799	.35105489
3400.	.79947127E+04	.10939265E+05	.61081460	.44639993	.35095853
3450.	.80697877E+04	.11060818E+05	.61185369	.44639820	.35086170
3500.	.81447457E+04	.11183743E+05	.61296178	.44639954	.35076444
3550.	.82195950E+04	.11305484E+05	.61398766	.44639662	.35066682
3600.	.82943453E+04	.11426245E+05	.61494456	.44639008	.35056881
3650.	.83681431E+04	.11548185E+05	.61595726	.44634013	.35053787
3700.	.84416603E+04	.11668695E+05	.61690095	.44629396	.35052062
3750.	.85150775E+04	.11787099E+05	.61784465	.44633501	.35050323
3800.	.85884026E+04	.11903957E+05	.61871276	.44638553	.35048581
3850.	.86616420E+04	.12022082E+05	.61964327	.44643915	.35046832
3900.	.87348019E+04	.12140375E+05	.62057377	.44649270	.35045070
3950.	.88078889E+04	.12257450E+05	.62142868	.44654269	.35043302
4000.	.88804681E+04	.12375966E+05	.62235259	.44657381	.35039779
4050.	.89511891E+04	.12494549E+05	.62326990	.44651525	.35029240
4100.	.90218117E+04	.12613326E+05	.62418722	.44645635	.35018664
4150.	.90919220E+04	.12730993E+05	.62503552	.44637320	.35011725
4200.	.91615444E+04	.12850048E+05	.62594623	.44627336	.35008133
4250.	.92310716E+04	.12969190E+05	.62685036	.44617285	.35004535
4300.	.93005076E+04	.13086635E+05	.62775449	.44613725	.35000924
4350.	.93698567E+04	.13200412E+05	.62858959	.44618261	.34997297
4400.	.94391247E+04	.13314312E+05	.62942472	.44622796	.34993655
4450.	.95083165E+04	.13429582E+05	.63032224	.44627623	.34989999
4500.	.95774369E+04	.13543621E+05	.63115077	.44632130	.34986334
4550.	.96464911E+04	.13657799E+05	.63197929	.44636639	.34982657
4600.	.97154823E+04	.13773527E+05	.63287682	.44641459	.34978966
4650.	.97844814E+04	.13887873E+05	.63369874	.44646242	.34971404
4700.	.98536777E+04	.14001721E+05	.63452067	.44654240	.34949393
4750.	.99228252E+04	.14115715E+05	.63534260	.44662232	.34927291
4800.	.99915465E+04	.14228420E+05	.63609552	.44668191	.34903761
4850.	.10058999E+05	.14342715E+05	.63691744	.44669030	.34875897
4900.	.10126390E+05	.14457035E+05	.63773278	.44669815	.34847941
4950.	.10193720E+05	.14569283E+05	.63848571	.44673059	.34819873
5000.	.10260993E+05	.14682402E+05	.63930104	.44678407	.34791697

TABLE 11

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W				
.547	.08000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.66963221E+03	.61588356E+03	.44243944	.48105146	.36026009
150.	.94878987E+03	.94134652E+03	.46918491	.47289480	.36716890
200.	.11896720E+04	.12447868E+04	.48709845	.46553143	.37084339
250.	.14035725E+04	.15193395E+04	.49714587	.45926553	.37264853
300.	.15983664E+04	.17698386E+04	.50214593	.45349512	.37384360
350.	.17791625E+04	.19970621E+04	.50474600	.44967312	.37424851
400.	.19482270E+04	.22088838E+04	.50635136	.44659994	.37428456
450.	.21078693E+04	.24115324E+04	.50790123	.44394568	.37401501
500.	.22624414E+04	.26068316E+04	.50966479	.44233263	.37409848
550.	.24083761E+04	.27961337E+04	.51189222	.44090484	.37500840
600.	.25478287E+04	.29817621E+04	.51444593	.43957903	.37591463
650.	.26848396E+04	.31675773E+04	.51737922	.43853079	.37662202
700.	.28172730E+04	.33509785E+04	.52061379	.43769636	.37681241
750.	.29466946E+04	.35367106E+04	.52406480	.43663705	.37670537
800.	.30742630E+04	.37143070E+04	.52767353	.43674558	.37643940
850.	.31943985E+04	.38945965E+04	.53147316	.43592115	.37534363
900.	.33136917E+04	.40729157E+04	.53527332	.43549408	.37422953
950.	.34323528E+04	.42525776E+04	.53921217	.43521049	.37309679
1000.	.35505486E+04	.44306472E+04	.54311242	.43522919	.37194267
1050.	.36647656E+04	.46084106E+04	.54697407	.43497246	.37117203
1100.	.37740717E+04	.47807412E+04	.55094178	.43493124	.37122350
1150.	.38827647E+04	.49467850E+04	.55478549	.43545484	.37127538
1200.	.39909618E+04	.51131601E+04	.55859061	.43599528	.37132773
1250.	.40987672E+04	.52786067E+04	.56235711	.43666272	.37138045
1300.	.42062779E+04	.54423557E+04	.56609808	.43752483	.37143359
1350.	.43133405E+04	.56052751E+04	.56965577	.43835837	.37146630
1400.	.44198214E+04	.57688044E+04	.57318790	.43915305	.37146182
1450.	.45262168E+04	.59316928E+04	.57655635	.43994506	.37145735
1500.	.46325964E+04	.60946833E+04	.57983996	.44073897	.37145262
1550.	.47387830E+04	.62578586E+04	.58304527	.44151285	.37148391
1600.	.48410622E+04	.64205073E+04	.58609993	.44191931	.37194324
1650.	.49354106E+04	.65826665E+04	.58901049	.44161565	.37181463
1700.	.50290141E+04	.67459766E+04	.59193464	.44127748	.37165910
1750.	.51220981E+04	.69089479E+04	.59472775	.44091428	.37149114
1800.	.52148506E+04	.70723509E+04	.59746211	.44054312	.37132179
1850.	.53073119E+04	.72363528E+04	.60015080	.44016474	.37115096
1900.	.53995190E+04	.73982907E+04	.60270842	.43987667	.37097875
1950.	.54915072E+04	.75595469E+04	.60515456	.43960446	.37080500
2000.	.55832957E+04	.77203626E+04	.60747616	.43932120	.37062880
2050.	.56745841E+04	.78827569E+04	.60984400	.43901024	.37042862
2100.	.57640010E+04	.80439195E+04	.61202148	.43855391	.37042796
2150.	.58526839E+04	.82027953E+04	.61416633	.43820687	.37049064
2200.	.59411967E+04	.83505556E+04	.61620625	.43841424	.37055381
2250.	.60295640E+04	.84983715E+04	.61821353	.43862026	.37061732
2300.	.61178098E+04	.86454014E+04	.62012236	.43882179	.37068124
2350.	.62058321E+04	.87916219E+04	.62193277	.43901004	.37073807
2400.	.62930605E+04	.89390217E+04	.62379593	.43915157	.37075324
2450.	.63764346E+04	.90856161E+04	.62556066	.43902874	.37054937
2500.	.64596190E+04	.92283429E+04	.62730581	.43909903	.37034425
2550.	.65426319E+04	.93690355E+04	.62895253	.43921327	.37013789
2600.	.66247256E+04	.95098743E+04	.63058620	.43927610	.37001129
2650.	.67057107E+04	.96508743E+04	.63220682	.43927584	.36998291
2700.	.67863503E+04	.97908201E+04	.63372900	.43925910	.36994493

2750.	.68667603E+04	.99297774E+04	.63515927	.43923304	.36990304
2800.	.69470208E+04	.10069912E+05	.63666188	.43921965	.36986089
2850.	.70271452E+04	.10208037E+05	.63806605	.43924044	.36981845
2900.	.71071487E+04	.10346394E+05	.63946370	.43926063	.36977576
2950.	.71870423E+04	.10486098E+05	.64092716	.43928357	.36973277
3000.	.72668273E+04	.10623656E+05	.64222636	.43929773	.36968887
3050.	.73463296E+04	.10762584E+05	.64359137	.43930289	.36963475
3100.	.74255810E+04	.10901796E+05	.64494987	.43929711	.36959693
3150.	.75036917E+04	.11040150E+05	.64622950	.43922472	.36966074
3200.	.75812729E+04	.11179847E+05	.64756843	.43912880	.36970335
3250.	.76564152E+04	.11314145E+05	.64890734	.43912323	.36963274
3300.	.77314212E+04	.11446085E+05	.65016087	.43916042	.36956173
3350.	.78060364E+04	.11578139E+05	.65140788	.43918229	.36947792
3400.	.78801285E+04	.11710209E+05	.65264183	.43918100	.36937506
3450.	.79540953E+04	.11841187E+05	.65379694	.43917582	.36927168
3500.	.80279464E+04	.11973737E+05	.65503090	.43917391	.36916783
3550.	.81016900E+04	.12104970E+05	.65617295	.43916753	.36906359
3600.	.81753349E+04	.12235079E+05	.65723613	.43915739	.36895894
3650.	.82479850E+04	.12366577E+05	.65836513	.43910175	.36892242
3700.	.83203454E+04	.12496403E+05	.65941527	.43905136	.36889978
3750.	.83926045E+04	.12623816E+05	.66046542	.43909266	.36887695
3800.	.84647709E+04	.12749563E+05	.66143018	.43914092	.36885408
3850.	.85368510E+04	.12876779E+05	.66246726	.43919245	.36883113
3900.	.86088504E+04	.13004187E+05	.66350435	.43924388	.36880804
3950.	.86807759E+04	.13130217E+05	.66445606	.43929160	.36878485
4000.	.87522281E+04	.13257896E+05	.66548663	.43932240	.36874443
4050.	.88219675E+04	.13385667E+05	.66651067	.43927100	.36863518
4100.	.88916103E+04	.13513656E+05	.66753470	.43921929	.36852552
4150.	.89607211E+04	.13640373E+05	.66847987	.43914206	.36845301
4200.	.90293263E+04	.13768694E+05	.66949739	.43904747	.36841469
4250.	.90978363E+04	.13897130E+05	.67050838	.43895217	.36837628
4300.	.91662570E+04	.14023795E+05	.67151937	.43891964	.36833775
4350.	.92345908E+04	.14146489E+05	.67245149	.43896505	.36829902
4400.	.93028454E+04	.14269325E+05	.67338363	.43901052	.36826014
4450.	.93710241E+04	.14393754E+05	.67438809	.43905898	.36822112
4500.	.94391318E+04	.14516774E+05	.67531369	.43910409	.36818197
4550.	.95071749E+04	.14639955E+05	.67623930	.43914924	.36814276
4600.	.95751550E+04	.14764912E+05	.67724377	.43919760	.36810332
4650.	.96431516E+04	.14888308E+05	.67816284	.43924581	.36802352
4700.	.97113742E+04	.15011300E+05	.67908192	.43932361	.36779289
4750.	.97795489E+04	.15134464E+05	.68000100	.43940128	.36756126
4800.	.98473293E+04	.15256153E+05	.68084122	.43945990	.36731555
4850.	.99139427E+04	.15379667E+05	.68176030	.43947196	.36702730
4900.	.99804953E+04	.15503231E+05	.68267285	.43948342	.36673799
4950.	.10046990E+05	.15624333E+05	.68351308	.43952269	.36644753
5000.	.10113432E+05	.15746408E+05	.68442563	.43958545	.36615597

TABLE 1j

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

X	W				
.578	.09000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.66346584E+03	.64672510E+03	.46670872	.47878965	.37960008
150.	.93810441E+03	.99291956E+03	.49679561	.46936949	.38607790
200.	.11749015E+04	.13167579E+04	.51694656	.46125508	.38948673
250.	.13852330E+04	.16097924E+04	.52824548	.45455741	.39112476
300.	.15768380E+04	.18767291E+04	.53385548	.44854827	.39221897
350.	.17546751E+04	.21185925E+04	.53673800	.44454079	.39252661
400.	.19209171E+04	.23436811E+04	.53845448	.44132557	.39246314
450.	.20780765E+04	.25587486E+04	.54005179	.43860068	.39213428
500.	.22302338E+04	.27657694E+04	.54182833	.43691415	.39218132
550.	.23738348E+04	.29661689E+04	.54407440	.43542453	.39309280
600.	.25111598E+04	.31624989E+04	.54664321	.43405814	.39402272
650.	.26461656E+04	.33586410E+04	.54960890	.43301921	.39475925
700.	.27765794E+04	.35523251E+04	.55289402	.43215473	.39494290
750.	.29039981E+04	.37483800E+04	.55641468	.43107345	.39481255
800.	.30296608E+04	.39358085E+04	.56011274	.43115705	.39452631
850.	.31484577E+04	.41261759E+04	.56403179	.43038160	.39342843
900.	.32664611E+04	.43143773E+04	.56796206	.43001011	.39231181
950.	.33838778E+04	.45041580E+04	.57206168	.42977772	.39117597
1000.	.35008698E+04	.46924698E+04	.57613382	.42983108	.39001779
1050.	.36136607E+04	.48804173E+04	.58017849	.42958789	.38922822
1100.	.37213924E+04	.50629715E+04	.58436022	.42951725	.38927696
1150.	.38285159E+04	.52389228E+04	.58841929	.43000683	.38932603
1200.	.39351467E+04	.54153264E+04	.59245090	.43051536	.38937550
1250.	.40413871E+04	.55906911E+04	.59645504	.43116417	.38942529
1300.	.41473333E+04	.57640839E+04	.60044462	.43202769	.38947544
1350.	.42527918E+04	.59366130E+04	.60424220	.43285897	.38950019
1400.	.43575925E+04	.61098993E+04	.60802522	.43364480	.38947897
1450.	.44622976E+04	.62825161E+04	.61163564	.43442788	.38945747
1500.	.45669761E+04	.64552987E+04	.61516213	.43521312	.38943557
1550.	.46714397E+04	.66283356E+04	.61861117	.43597742	.38945012
1600.	.47719126E+04	.68008185E+04	.62190049	.43636728	.38990281
1650.	.48650698E+04	.69727833E+04	.62503655	.43610223	.38978053
1700.	.49574391E+04	.71460722E+04	.62819677	.43579845	.38962536
1750.	.50492739E+04	.73189961E+04	.63121665	.43546760	.38945512
1800.	.51407856E+04	.74924285E+04	.63417843	.43512931	.38928348
1850.	.52320134E+04	.76665402E+04	.63709504	.43478408	.38911031
1900.	.53229939E+04	.78387496E+04	.63987129	.43451201	.38893573
1950.	.54137619E+04	.80103015E+04	.64252655	.43425153	.38875956
2000.	.55043338E+04	.81813936E+04	.64504792	.43397973	.38858068
2050.	.55943559E+04	.83542707E+04	.64762574	.43367625	.38837253
2100.	.56824457E+04	.85257772E+04	.64999383	.43322204	.38836754
2150.	.57697811E+04	.86949830E+04	.65232966	.43287023	.38842701
2200.	.58569451E+04	.88526501E+04	.65455097	.43305326	.38848694
2250.	.59439621E+04	.90104419E+04	.65674000	.43323486	.38854717
2300.	.60308557E+04	.91673908E+04	.65882094	.43341165	.38860777
2350.	.61175036E+04	.93234703E+04	.66079382	.43357337	.38865951
2400.	.62033617E+04	.94809254E+04	.66282958	.43368884	.38866735
2450.	.62856645E+04	.96375149E+04	.66475727	.43356001	.38846086
2500.	.63677847E+04	.97895532E+04	.66666559	.43364419	.38825314
2550.	.64497391E+04	.99392720E+04	.66846584	.43377726	.38804412
2600.	.65307516E+04	.10089167E+05	.67025317	.43385711	.38791641
2650.	.66106249E+04	.10239259E+05	.67202761	.43387147	.38788885
2700.	.66901292E+04	.10388192E+05	.67369396	.43386756	.38784948

2750.	.67693950E+04	.10536027E+05	.67525868	.43385354	.38780532
2800.	.68485135E+04	.10685237E+05	.67690568	.43385070	.38776093
2850.	.69274979E+04	.10832429E+05	.67844458	.43387530	.38771621
2900.	.70063622E+04	.10979887E+05	.67997704	.43389931	.38767119
2950.	.70851187E+04	.11128879E+05	.68158530	.43392624	.38762589
3000.	.71637654E+04	.11275466E+05	.68300967	.43394401	.38757951
3050.	.72420988E+04	.11423612E+05	.68450985	.43395100	.38752054
3100.	.73201748E+04	.11572080E+05	.68600357	.43394670	.38747818
3150.	.73970697E+04	.11719576E+05	.68740858	.43387312	.38753951
3200.	.74734690E+04	.11868611E+05	.68888295	.43377824	.38758007
3250.	.75476171E+04	.12012070E+05	.69035731	.43377640	.38750982
3300.	.76216328E+04	.12153001E+05	.69173650	.43381560	.38743925
3350.	.76952187E+04	.12294077E+05	.69310924	.43383713	.38735289
3400.	.77682201E+04	.12435205E+05	.69446906	.43383189	.38724311
3450.	.78410981E+04	.12575110E+05	.69574019	.43382260	.38713283
3500.	.79138601E+04	.12716785E+05	.69710002	.43381656	.38702201
3550.	.79865157E+04	.12857011E+05	.69835822	.43380602	.38691079
3600.	.80590731E+04	.12995979E+05	.69952771	.43379147	.38679913
3650.	.81306031E+04	.13136534E+05	.70077301	.43372987	.38675672
3700.	.82018365E+04	.13275183E+05	.70192959	.43367475	.38672838
3750.	.82729682E+04	.13411090E+05	.70308617	.43371638	.38669988
3800.	.83440064E+04	.13545212E+05	.70414759	.43376300	.38667129
3850.	.84149567E+04	.13680999E+05	.70529126	.43381301	.38664258
3900.	.84858262E+04	.13817000E+05	.70643493	.43386292	.38661371
3950.	.85566198E+04	.13951467E+05	.70748344	.43390897	.38658471
4000.	.86269723E+04	.14087784E+05	.70862066	.43393984	.38653884
4050.	.86957430E+04	.14224218E+05	.70975143	.43389492	.38642565
4100.	.87644185E+04	.14360896E+05	.71088219	.43384960	.38631198
4150.	.88325473E+04	.14496140E+05	.71192423	.43377784	.38623625
4200.	.89001561E+04	.14633197E+05	.71304854	.43368809	.38619544
4250.	.89676712E+04	.14770398E+05	.71416639	.43359761	.38615453
4300.	.90350978E+04	.14905775E+05	.71528426	.43356774	.38611348
4350.	.91024390E+04	.15036912E+05	.71631339	.43361289	.38607225
4400.	.91697009E+04	.15168212E+05	.71734253	.43365799	.38603085
4450.	.92368884E+04	.15301318E+05	.71845394	.43370635	.38598929
4500.	.93040053E+04	.15432845E+05	.71947662	.43375114	.38594760
4550.	.93710580E+04	.15564554E+05	.72049930	.43379596	.38590581
4600.	.94380485E+04	.15698258E+05	.72161072	.43384411	.38586382
4650.	.95050630E+04	.15830228E+05	.72262694	.43389232	.38577983
4700.	.95723294E+04	.15961879E+05	.72364317	.43396837	.38553888
4750.	.96395490E+04	.16093725E+05	.72465941	.43404431	.38529691
4800.	.97064032E+04	.16223918E+05	.72558693	.43410224	.38504110
4850.	.97721803E+04	.16356161E+05	.72660315	.43411757	.38474356
4900.	.98378998E+04	.16488480E+05	.72761293	.43413237	.38444491
4950.	.99035641E+04	.16617951E+05	.72854044	.43417788	.38414505
5000.	.99691771E+04	.16748482E+05	.72955022	.43424922	.38384403

TABLE 1k

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
•1

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.65727575E+03	.67529072E+03	.49097802	.47788001	.39850456
150.	.92753835E+03	.10410851E+04	.52440632	.46721153	.40451403
200.	.11603981E+04	.13842889E+04	.54679469	.45835772	.40763942
250.	.13672881E+04	.16948736E+04	.55934510	.45123476	.40910093
300.	.15558199E+04	.19773726E+04	.56556503	.44499317	.41008964
350.	.17307967E+04	.22330930E+04	.56873000	.44080385	.41029516
400.	.18943062E+04	.24707130E+04	.57055761	.43744894	.41012703
450.	.20490540E+04	.26974907E+04	.57220235	.43465339	.40973647
500.	.21988735E+04	.29155419E+04	.57399186	.43289907	.40974599
550.	.23402382E+04	.31263905E+04	.57625659	.43135289	.41066022
600.	.24755286E+04	.33327786E+04	.57884049	.42995238	.41161655
650.	.26086147E+04	.35385873E+04	.58183859	.42892614	.41238530
700.	.27370809E+04	.37419055E+04	.58517426	.42803571	.41256256
750.	.28625607E+04	.39476200E+04	.58876455	.42693425	.41240818
800.	.29863713E+04	.41442655E+04	.59255196	.42699486	.41210106
850.	.31038291E+04	.43440831E+04	.59659042	.42626134	.41100170
900.	.32205363E+04	.45415354E+04	.60065082	.42593914	.40988313
950.	.33366980E+04	.47407815E+04	.60491119	.42575383	.40874489
1000.	.34524707E+04	.49386708E+04	.60915522	.42584140	.40758335
1050.	.35638427E+04	.51361317E+04	.61338291	.42561217	.40677425
1100.	.36700469E+04	.53282963E+04	.61777865	.42551623	.40682048
1150.	.37756485E+04	.55135879E+04	.62205309	.42597557	.40686704
1200.	.38807606E+04	.56994497E+04	.62631120	.42645587	.40691390
1250.	.39854844E+04	.58841575E+04	.63055296	.42708899	.40696095
1300.	.40899146E+04	.60666109E+04	.63479116	.42795584	.40700836
1350.	.41938185E+04	.62481691E+04	.63882865	.42878663	.40702506
1400.	.42969921E+04	.64306279E+04	.64286256	.42956540	.40698639
1450.	.44000601E+04	.66123913E+04	.64671493	.43034121	.40694721
1500.	.45030911E+04	.67943831E+04	.65048430	.43111934	.40690738
1550.	.46058891E+04	.69766959E+04	.65417707	.43187592	.40690449
1600.	.47046396E+04	.71584297E+04	.65770104	.43225210	.40735045
1650.	.47966312E+04	.73396172E+04	.66106261	.43202164	.40723523
1700.	.48877924E+04	.75222983E+04	.66445890	.43174798	.40708072
1750.	.49784043E+04	.77045871E+04	.66770557	.43144533	.40690835
1800.	.50687003E+04	.78874607E+04	.67089477	.43113552	.40673454
1850.	.51587195E+04	.80710890E+04	.67403929	.43081913	.40655916
1900.	.52484975E+04	.82529511E+04	.67703417	.43056260	.40638233
1950.	.53380690E+04	.84341751E+04	.67989856	.43031421	.40620389
2000.	.54274477E+04	.86149164E+04	.68261969	.43005438	.40602245
2050.	.55162274E+04	.87976399E+04	.68540747	.42975882	.40580606
2100.	.56030299E+04	.89788573E+04	.68796619	.42930798	.40579671
2150.	.56890630E+04	.91577825E+04	.69049299	.42895298	.40585302
2200.	.57749237E+04	.93248438E+04	.69289570	.42911385	.40590974
2250.	.58606365E+04	.94920982E+04	.69526648	.42927327	.40596674
2300.	.59462243E+04	.96584589E+04	.69751952	.42942746	.40602407
2350.	.60315449E+04	.98238945E+04	.69965486	.42956484	.40607064
2400.	.61160773E+04	.99908983E+04	.70186323	.42965603	.40607091
2450.	.61973250E+04	.10156980E+05	.70395389	.42952048	.40586188
2500.	.62783954E+04	.10317816E+05	.70602538	.42961673	.40565162
2550.	.63593056E+04	.10476049E+05	.70797916	.42976658	.40544001
2600.	.64392582E+04	.10634489E+05	.70992016	.42986166	.40531138
2650.	.65180498E+04	.10793157E+05	.71184841	.42988935	.40528488
2700.	.65964486E+04	.10950569E+05	.71365892	.42989677	.40524426

2750.	.66746006E+04	.11106777E+05	.71535810	.42989335	.40519788
2800.	.67526072E+04	.11264545E+05	.71714947	.42990006	.40515122
2850.	.68304816E+04	.11420280E+05	.71882311	.42992886	.40510428
2900.	.69082376E+04	.11576313E+05	.72049038	.42995716	.40505704
2950.	.69858866E+04	.11734057E+05	.72224345	.42998860	.40500943
3000.	.70634252E+04	.11889149E+05	.72379298	.43001038	.40496058
3050.	.71406203E+04	.12045979E+05	.72542832	.43001968	.40489663
3100.	.72175535E+04	.12203170E+05	.72705728	.43001734	.40484966
3150.	.72932755E+04	.12359275E+05	.72858767	.42994355	.40490845
3200.	.73685324E+04	.12517112E+05	.73019748	.42985024	.40494697
3250.	.74417072E+04	.12669244E+05	.73180729	.42985165	.40487727
3300.	.75147533E+04	.12818694E+05	.73331213	.42989244	.40480724
3350.	.75873325E+04	.12968324E+05	.73481060	.42991309	.40471835
3400.	.76592662E+04	.13118040E+05	.73629630	.42990334	.40460132
3450.	.77310770E+04	.13266407E+05	.73768344	.42988937	.40448375
3500.	.78027731E+04	.13416732E+05	.73916914	.42987882	.40436562
3550.	.78743629E+04	.13565486E+05	.74054350	.42986356	.40424707
3600.	.79458552E+04	.13712851E+05	.74181929	.42984413	.40412806
3650.	.80162961E+04	.13862000E+05	.74318089	.42977622	.40407950
3700.	.80864345E+04	.14009007E+05	.74444391	.42971617	.40404521
3750.	.81564711E+04	.14152932E+05	.74570694	.42975809	.40401077
3800.	.82264131E+04	.14294953E+05	.74686501	.42980344	.40397620
3850.	.82962663E+04	.14438828E+05	.74811527	.42985230	.40394146
3900.	.83660386E+04	.14582938E+05	.74936553	.42990108	.40390659
3950.	.84357338E+04	.14725365E+05	.75051083	.42994584	.40387154
4000.	.85050161E+04	.14869833E+05	.75175470	.42997697	.40382002
4050.	.85728346E+04	.15014445E+05	.75299220	.42993780	.40370269
4100.	.86405600E+04	.15159321E+05	.75422968	.42989833	.40358490
4150.	.87077276E+04	.15302609E+05	.75536859	.42983153	.40350589
4200.	.87743651E+04	.15447914E+05	.75659970	.42974617	.40346250
4250.	.88409101E+04	.15593388E+05	.75782442	.42966015	.40341904
4300.	.89073668E+04	.15737001E+05	.75904915	.42963262	.40337539
4350.	.89737395E+04	.15876137E+05	.76017529	.42967725	.40333157
4400.	.90400336E+04	.16015455E+05	.76130145	.42972182	.40328758
4450.	.91062540E+04	.16156789E+05	.76251978	.42976972	.40324340
4500.	.91724046E+04	.16296377E+05	.76363956	.42981400	.40319908
4550.	.92384910E+04	.16436169E+05	.76475932	.42985819	.40315466
4600.	.93045165E+04	.16578166E+05	.76597767	.42990592	.40311003
4650.	.93705721E+04	.16718264E+05	.76709105	.42995384	.40302183
4700.	.94369031E+04	.16858118E+05	.76820443	.43002847	.40277082
4750.	.95031882E+04	.16998190E+05	.76931782	.43010296	.40251873
4800.	.95691335E+04	.17136436E+05	.77033263	.43016037	.40225303
4850.	.96340839E+04	.17276950E+05	.77144601	.43017867	.40194652
4900.	.96989790E+04	.17417569E+05	.77255301	.43019639	.40163884
4950.	.97638211E+04	.17554951E+05	.77356782	.43024772	.40132989
5000.	.98286140E+04	.17693474E+05	.77467483	.43032701	.40101970

TABLE 1L

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
•2

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.59964132E+03	.87686618E+03	.73367093	.50171783	.56833963
150.	.83386502E+03	.13912989E+04	.80051334	.47978192	.56849697
200.	.10348078E+04	.18837448E+04	.84527589	.46434001	.56827634
250.	.12137295E+04	.23298779E+04	.87034126	.45339663	.56770543
300.	.13773172E+04	.27313254E+04	.88266053	.44509654	.56752392
350.	.15288521E+04	.30929709E+04	.88865000	.43925870	.56656081
400.	.16698665E+04	.34256891E+04	.89158882	.43460870	.56517205
450.	.18045136E+04	.37408060E+04	.89370796	.43111246	.56408183
500.	.19350550E+04	.40414840E+04	.89562720	.42882460	.56368757
550.	.20585941E+04	.43307864E+04	.89807839	.42689216	.56470805
600.	.21777452E+04	.46122405E+04	.90081328	.42533378	.56606024
650.	.22955308E+04	.48890751E+04	.90413539	.42451190	.56729255
700.	.24081463E+04	.51634354E+04	.90797662	.42346622	.56743452
750.	.25176188E+04	.54400463E+04	.91226322	.42218960	.56701335
800.	.26259676E+04	.57048567E+04	.91694409	.42207289	.56647403
850.	.27311189E+04	.59746306E+04	.92217668	.42154473	.56534966
900.	.28357819E+04	.62400677E+04	.92753830	.42151726	.56420296
950.	.29401400E+04	.65086968E+04	.93340624	.42164277	.56303341
1000.	.30443041E+04	.67767107E+04	.93936916	.42199312	.56183028
1050.	.31429002E+04	.70434844E+04	.94542710	.42186265	.56078475
1100.	.32363935E+04	.73074128E+04	.95196299	.42161663	.56081963
1150.	.33293428E+04	.75631610E+04	.95839105	.42188871	.56085440
1200.	.34218476E+04	.78204989E+04	.96491411	.42219672	.56088912
1250.	.35139973E+04	.80754330E+04	.97153216	.42275891	.56092366
1300.	.36058747E+04	.83252425E+04	.97825659	.42370784	.56095807
1350.	.36969184E+04	.85739304E+04	.98469307	.42458122	.56089565
1400.	.37866313E+04	.88247102E+04	.99123589	.42533349	.56065934
1450.	.38761771E+04	.90745889E+04	.99750783	.42608178	.56042019
1500.	.39656150E+04	.93252259E+04	1.00370590	.42683267	.56017805
1550.	.40547396E+04	.95767366E+04	1.00983600	.42755921	.55998023
1600.	.41400269E+04	.98274729E+04	1.01570650	.42788743	.56037108
1650.	.42220209E+04	.10077438E+05	1.02132310	.42789123	.56035095
1700.	.43028203E+04	.10330266E+05	1.02708010	.42780516	.56021110
1750.	.43829363E+04	.10582479E+05	1.03259460	.42766881	.56001841
1800.	.44627893E+04	.10835885E+05	1.03805800	.42752706	.55982402
1850.	.45424137E+04	.11090653E+05	1.04348170	.42738020	.55962774
1900.	.46218411E+04	.11344275E+05	1.04866290	.42724221	.55942973
1950.	.47011021E+04	.11597235E+05	1.05361850	.42709905	.55922977
2000.	.47801880E+04	.11849495E+05	1.05833730	.42694234	.55902348
2050.	.48582543E+04	.12105281E+05	1.06322480	.42670768	.55871110
2100.	.49343541E+04	.12358405E+05	1.06768970	.42629764	.55865875
2150.	.50096916E+04	.12609882E+05	1.07212620	.42593749	.55868848
2200.	.50848610E+04	.12849173E+05	1.07634290	.42594601	.55871843
2250.	.51598836E+04	.13089303E+05	1.08053120	.42595203	.55874835
2300.	.52347794E+04	.13328183E+05	1.08450530	.42595048	.55877837
2350.	.53092393E+04	.13565759E+05	1.08826530	.42591504	.55877381
2400.	.53828535E+04	.13806535E+05	1.09219970	.42582377	.55869165
2450.	.54548613E+04	.14046014E+05	1.09591990	.42560764	.55845534
2500.	.55267282E+04	.14273516E+05	1.09962310	.42577581	.55821742
2550.	.55984708E+04	.14495843E+05	1.10311220	.42603533	.55797794
2600.	.56692862E+04	.14718630E+05	1.10658990	.42623361	.55784306
2650.	.57389689E+04	.14941905E+05	1.11005630	.42635651	.55783701
2700.	.58080618E+04	.15163119E+05	1.11330850	.42644026	.55778728

2750.	.58768390E+04	.15382280E+05	1.11635220	.42650517	.55772019
2800.	.59454872E+04	.15604448E+05	1.11958740	.42657660	.55765274
2850.	.60140171E+04	.15824192E+05	1.12260840	.42664965	.55758474
2900.	.60824418E+04	.16044488E+05	1.12562370	.42672228	.55751632
2950.	.61507714E+04	.16267932E+05	1.12882490	.42679941	.55744744
3000.	.62189837E+04	.16486682E+05	1.13162600	.42686354	.55737509
3050.	.62866013E+04	.16708622E+05	1.13461300	.42689693	.55725615
3100.	.63539554E+04	.16931209E+05	1.13759430	.42691714	.55715835
3150.	.64200925E+04	.17151771E+05	1.14037840	.42685590	.55719374
3200.	.64859604E+04	.17375600E+05	1.14334270	.42678672	.55721417
3250.	.65508032E+04	.17593951E+05	1.14630690	.42680753	.55715506
3300.	.66155426E+04	.17808670E+05	1.14906840	.42685449	.55709559
3350.	.66794946E+04	.18023853E+05	1.15182420	.42685676	.55697809
3400.	.67422923E+04	.18239442E+05	1.15456860	.42679150	.55677335
3450.	.68049712E+04	.18452675E+05	1.15711590	.42672080	.55656781
3500.	.68675373E+04	.18669415E+05	1.15986030	.42665417	.55636140
3550.	.69299977E+04	.18883613E+05	1.16239620	.42658165	.55615425
3600.	.69923606E+04	.19095374E+05	1.16473500	.42650367	.55594638
3650.	.70536737E+04	.19310545E+05	1.16725960	.42637161	.55582636
3700.	.71146830E+04	.19521532E+05	1.16958710	.42625965	.55572400
3750.	.71755877E+04	.19725922E+05	1.17191450	.42630074	.55562125
3800.	.72363949E+04	.19927363E+05	1.17403910	.42633892	.55551812
3850.	.72971095E+04	.20132183E+05	1.17635520	.42638161	.55541463
3900.	.73577371E+04	.20337396E+05	1.17867130	.42642398	.55531074
3950.	.74182819E+04	.20539707E+05	1.18078460	.42646143	.55520636
4000.	.74785901E+04	.20745610E+05	1.18309500	.42649420	.55508967
4050.	.75381690E+04	.20951844E+05	1.18539980	.42648962	.55492437
4100.	.75976642E+04	.21158517E+05	1.18770450	.42648451	.55475833
4150.	.76566083E+04	.21362326E+05	1.18981210	.42644818	.55464125
4200.	.77150272E+04	.21569791E+05	1.19211120	.42639125	.55456906
4250.	.77733618E+04	.21777627E+05	1.19440460	.42633382	.55449675
4300.	.78316156E+04	.21983753E+05	1.19669800	.42631841	.55442416
4350.	.78897922E+04	.22184055E+05	1.19879420	.42635294	.55435125
4400.	.79478967E+04	.22384700E+05	1.20089050	.42638738	.55427809
4450.	.80059324E+04	.22589065E+05	1.20317820	.42642594	.55420461
4500.	.80639038E+04	.22790355E+05	1.20526880	.42645985	.55413095
4550.	.81218155E+04	.22992021E+05	1.20735940	.42649361	.55405702
4600.	.81796705E+04	.23197610E+05	1.20964710	.42653163	.55398286
4650.	.82375865E+04	.23399976E+05	1.21173200	.42657082	.55385128
4700.	.82958876E+04	.23602557E+05	1.21381690	.42663547	.55350568
4750.	.83541473E+04	.23805548E+05	1.21590180	.42669977	.55315852
4800.	.84122287E+04	.24005319E+05	1.21778960	.42675225	.55280060
4850.	.84698249E+04	.24209127E+05	1.21987450	.42678626	.55241189
4900.	.85273797E+04	.24413265E+05	1.22195370	.42681972	.55202150
4950.	.85848953E+04	.24610689E+05	1.22384150	.42691007	.55162941
5000.	.86423749E+04	.24809692E+05	1.22592070	.42704544	.55123558

TABLE 1m

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
•3

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.55405525E+03	.99386429E+03	.97636384	.54429917	.71434415
150.	.76330601E+03	.16023803E+04	1.07662030	.51285624	.70789542
200.	.94249982E+03	.21913275E+04	1.14375700	.49193500	.70407540
250.	.11022894E+04	.27255030E+04	1.18133730	.47777437	.70135003
300.	.12488169E+04	.32033139E+04	1.19975590	.46772668	.69998215
350.	.13841556E+04	.36330502E+04	1.20857000	.46045300	.69775670
400.	.15095663E+04	.40263903E+04	1.21261990	.45463304	.69500697
450.	.16300605E+04	.43974282E+04	1.21521350	.45046136	.69314439
500.	.17471721E+04	.47499895E+04	1.21726240	.44774138	.69233920
550.	.18587300E+04	.50887262E+04	1.21990010	.44558595	.69359763
600.	.19670684E+04	.54171547E+04	1.22278590	.44401602	.69552549
650.	.20745314E+04	.57374920E+04	1.22643210	.44344670	.69740011
700.	.21762342E+04	.60556234E+04	1.23077890	.44231005	.69755189
750.	.22745380E+04	.63756444E+04	1.23576180	.44086321	.69684226
800.	.23719604E+04	.66826382E+04	1.24133610	.44060443	.69604300
850.	.24675529E+04	.69957576E+04	1.24776290	.44011257	.69483393
900.	.25627630E+04	.73028854E+04	1.25442570	.44020897	.69359985
950.	.26577580E+04	.76139020E+04	1.26190120	.44048741	.69234029
1000.	.27526164E+04	.79247079E+04	1.26958300	.44098469	.69103627
1050.	.28414857E+04	.82334629E+04	1.27747120	.44087356	.68968235
1100.	.29260134E+04	.85423115E+04	1.28614730	.44054635	.68972540
1150.	.30100496E+04	.88427362E+04	1.29472890	.44072311	.68976842
1200.	.30936837E+04	.91454741E+04	1.30351700	.44094698	.68981126
1250.	.31769968E+04	.94446658E+04	1.31251130	.44150256	.68985394
1300.	.32600642E+04	.97362451E+04	1.32172200	.44256265	.68989651
1350.	.33421001E+04	.10026555E+05	1.33055740	.44350786	.68976267
1400.	.34224082E+04	.10319776E+05	1.33960910	.44426246	.68931206
1450.	.35025188E+04	.10611957E+05	1.34830070	.44501202	.68885634
1500.	.35824843E+04	.10905256E+05	1.35692760	.44576411	.68839524
1550.	.36621349E+04	.11199802E+05	1.36549490	.44649240	.68798996
1600.	.37385946E+04	.11493437E+05	1.37371190	.44684212	.68836529
1650.	.38132939E+04	.11786145E+05	1.38158360	.44699808	.68845894
1700.	.38865459E+04	.12082632E+05	1.38970130	.44701665	.68833575
1750.	.39590179E+04	.12378343E+05	1.39748360	.44696309	.68811757
1800.	.40312573E+04	.12675647E+05	1.40522120	.44690485	.68789739
1850.	.41032952E+04	.12974707E+05	1.41292410	.44684204	.68767512
1900.	.41751598E+04	.13272746E+05	1.42029160	.44677599	.68745084
1950.	.42468792E+04	.13569996E+05	1.42733840	.44670121	.68722431
2000.	.43184293E+04	.13866364E+05	1.43405480	.44661053	.68698767
2050.	.43886674E+04	.14167257E+05	1.44104210	.44639935	.68655882
2100.	.44572306E+04	.14464662E+05	1.44741310	.44601483	.68646663
2150.	.45251350E+04	.14761303E+05	1.45375940	.44565561	.68648066
2200.	.45928821E+04	.15047306E+05	1.45979000	.44557100	.68649475
2250.	.46604908E+04	.15334649E+05	1.46579590	.44548318	.68650872
2300.	.47279794E+04	.15620559E+05	1.47149110	.44538608	.68652254
2350.	.47949258E+04	.15904962E+05	1.47687560	.44523897	.68647330
2400.	.48609393E+04	.16193735E+05	1.48253610	.44501888	.68630606
2450.	.49260823E+04	.16481015E+05	1.48788600	.44472071	.68603207
2500.	.49911022E+04	.16750766E+05	1.49322090	.44492401	.68575627
2550.	.50560132E+04	.17013341E+05	1.49824530	.44524752	.68547854
2600.	.51201402E+04	.17276544E+05	1.50325970	.44551157	.68533602
2650.	.51833096E+04	.17540404E+05	1.50826420	.44570240	.68535980
2700.	.52457562E+04	.17801663E+05	1.51295810	.44583527	.68530438

2750.	.53078409E+04	.18060287E+05	1.51734620	.44594154	.68521759
2800.	.53698081E+04	.18322851E+05	1.52202530	.44605414	.68513033
2850.	.54316677E+04	.18582577E+05	1.52639360	.44616324	.68504240
2900.	.54934313E+04	.18843011E+05	1.53075710	.44627203	.68495393
2950.	.55551082E+04	.19107555E+05	1.53540630	.44638615	.68486486
3000.	.56166634E+04	.19366008E+05	1.53945910	.44648455	.68476969
3050.	.56774528E+04	.19628619E+05	1.54379760	.44653360	.68458995
3100.	.57380085E+04	.19892053E+05	1.54813120	.44656978	.68443733
3150.	.57975252E+04	.20152808E+05	1.55216920	.44652536	.68445615
3200.	.58568632E+04	.20417857E+05	1.55648790	.44647862	.68446455
3250.	.59156437E+04	.20678554E+05	1.56080660	.44650973	.68441823
3300.	.59743364E+04	.20935197E+05	1.56482460	.44655842	.68437159
3350.	.60320213E+04	.21192519E+05	1.56883780	.44653790	.68421940
3400.	.60882049E+04	.21450477E+05	1.57284080	.44641324	.68390872
3450.	.61442695E+04	.21705419E+05	1.57654830	.44628199	.68359689
3500.	.62002207E+04	.21964927E+05	1.58055150	.44615527	.68328384
3550.	.62560648E+04	.22221260E+05	1.58424900	.44602171	.68296972
3600.	.63118097E+04	.22474456E+05	1.58765070	.44588171	.68265457
3650.	.63666543E+04	.22732189E+05	1.59133830	.44568959	.68245354
3700.	.64212270E+04	.22984223E+05	1.59473020	.44552839	.68227530
3750.	.64756950E+04	.23226633E+05	1.59812210	.44556397	.68209640
3800.	.65300647E+04	.23465334E+05	1.60121320	.44559455	.68191694
3850.	.65843407E+04	.23708445E+05	1.60459510	.44563023	.68173687
3900.	.66385275E+04	.23952038E+05	1.60797710	.44566562	.68155605
3950.	.66926301E+04	.24191903E+05	1.61105840	.44569528	.68137465
4000.	.67465722E+04	.24436398E+05	1.61443540	.44572461	.68118431
4050.	.68001070E+04	.24681346E+05	1.61780740	.44573188	.68096013
4100.	.68535628E+04	.24926832E+05	1.62117930	.44573871	.68073512
4150.	.69065436E+04	.25168588E+05	1.62425560	.44571399	.68057268
4200.	.69590726E+04	.25415093E+05	1.62762270	.44566998	.68046780
4250.	.70115227E+04	.25662102E+05	1.63098470	.44562545	.68036271
4300.	.70638968E+04	.25907843E+05	1.63434680	.44561243	.68025724
4350.	.71161974E+04	.26147300E+05	1.63741320	.44563511	.68015124
4400.	.71684306E+04	.26387219E+05	1.64047950	.44565753	.68004496
4450.	.72205987E+04	.26632018E+05	1.64383670	.44568477	.67993826
4500.	.72727057E+04	.26872846E+05	1.64689800	.44570656	.67983126
4550.	.73247558E+04	.27114174E+05	1.64995940	.44572809	.67972390
4600.	.73767512E+04	.27360591E+05	1.65331660	.44575444	.67961614
4650.	.74288060E+04	.27602897E+05	1.65637300	.44578194	.67943864
4700.	.74812316E+04	.27845647E+05	1.65942940	.44583539	.67900091
4750.	.75336175E+04	.28088938E+05	1.66248580	.44588841	.67856130
4800.	.75858953E+04	.28328065E+05	1.66524660	.44593183	.67811336
4850.	.76379110E+04	.28572432E+05	1.66830300	.44596655	.67764338
4900.	.76898905E+04	.28817289E+05	1.67135440	.44600073	.67717140
4950.	.77418374E+04	.29052774E+05	1.67411510	.44610975	.67669738
5000.	.77937524E+04	.29289929E+05	1.67716660	.44627697	.67622123

TABLE 1n

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
4

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.51895183E+03	.10704740E+04	1.21905660	.59098273	.84630833
150.	.71029843E+03	.17435301E+04	1.35272730	.55108889	.83321764
200.	.87402540E+03	.23995392E+04	1.44223820	.52533119	.82586509
250.	.10201697E+04	.29951213E+04	1.49233350	.50830442	.82102949
300.	.11545212E+04	.35258780E+04	1.51685150	.49668116	.81853504
350.	.12782421E+04	.40028933E+04	1.52849000	.48809200	.81504082
400.	.13924424E+04	.44381424E+04	1.53365120	.48117448	.81088890
450.	.15026797E+04	.48476972E+04	1.53671910	.47634916	.80822730
500.	.16101077E+04	.52358415E+04	1.53889780	.47323646	.80702183
550.	.17131782E+04	.56085630E+04	1.54172190	.47093066	.80861352
600.	.18138585E+04	.59691706E+04	1.54475880	.46940755	.81123025
650.	.19139778E+04	.63189149E+04	1.54872890	.46910470	.81385308
700.	.20078494E+04	.66667600E+04	1.55358130	.46789702	.81404644
750.	.20980904E+04	.70161362E+04	1.55926050	.46627792	.81304133
800.	.21875725E+04	.73518524E+04	1.56572830	.46588858	.81196676
850.	.22758903E+04	.76945043E+04	1.57334910	.46536719	.81061197
900.	.23638719E+04	.80298493E+04	1.58131320	.46551580	.80922937
950.	.24516724E+04	.83694836E+04	1.59039620	.46587466	.80781845
1000.	.25393460E+04	.87091642E+04	1.59979690	.46645552	.80635110
1050.	.26208862E+04	.90461072E+04	1.60951540	.46631734	.80463504
1100.	.26988982E+04	.93857255E+04	1.62033150	.46593198	.80469920
1150.	.27764604E+04	.97169820E+04	1.63106680	.46604926	.80476353
1200.	.28536553E+04	.10051074E+05	1.64211980	.46622319	.80482794
1250.	.29305581E+04	.10380671E+05	1.65349050	.46679544	.80489246
1300.	.30072376E+04	.10700643E+05	1.66518740	.46797319	.80495701
1350.	.30827533E+04	.11019242E+05	1.67642180	.46899730	.80475960
1400.	.31562698E+04	.11341329E+05	1.68798250	.46976223	.80409127
1450.	.32295719E+04	.11662277E+05	1.69909360	.47052088	.80341567
1500.	.33027078E+04	.11984593E+05	1.71014920	.47128201	.80273256
1550.	.33755475E+04	.12308417E+05	1.72115390	.47202143	.80211961
1600.	.34458450E+04	.12631228E+05	1.73171750	.47241883	.80251559
1650.	.35151450E+04	.12952992E+05	1.74184420	.47269657	.80272746
1700.	.35828206E+04	.13279183E+05	1.75232260	.47278944	.80261772
1750.	.36496474E+04	.13604472E+05	1.76237270	.47278857	.80236729
1800.	.37162613E+04	.13931633E+05	1.77238450	.47278333	.80211485
1850.	.37826896E+04	.14260820E+05	1.78236660	.47277362	.80185976
1900.	.38489598E+04	.14588985E+05	1.79192020	.47275590	.80160253
1950.	.39150972E+04	.14916235E+05	1.80105840	.47272777	.80134274
2000.	.39810670E+04	.15242457E+05	1.80977240	.47268134	.80106872
2050.	.40455192E+04	.15573899E+05	1.81885950	.47247198	.80050954
2100.	.41086121E+04	.15901247E+05	1.82713670	.47210108	.80038068
2150.	.41711565E+04	.16228628E+05	1.83539260	.47174103	.80038770
2200.	.42335547E+04	.16547156E+05	1.84323720	.47158832	.80039481
2250.	.42958230E+04	.16867402E+05	1.85106060	.47143173	.80040158
2300.	.43579795E+04	.17186111E+05	1.85847690	.47126451	.80040824
2350.	.44195220E+04	.17503195E+05	1.86548610	.47103153	.80032097
2400.	.44800547E+04	.17825500E+05	1.87287260	.47070610	.80007023
2450.	.45400784E+04	.18146200E+05	1.87985200	.47032852	.79974820
2500.	.45999883E+04	.18444991E+05	1.88681870	.47055289	.79942401
2550.	.46597979E+04	.18735073E+05	1.89337840	.47092213	.79909774
2600.	.47189706E+04	.19025898E+05	1.89992950	.47123722	.79894363
2650.	.47773705E+04	.19317497E+05	1.90647210	.47148569	.79900143
2700.	.48349550E+04	.19606109E+05	1.91260760	.47165766	.79894153

2750.	.48921461E+04	.19891672E+05	1.91834040	.47179550	.79883519
2800.	.49492282E+04	.20181817E+05	1.92446330	.47194006	.79872826
2850.	.50062105E+04	.20468790E+05	1.93017890	.47207879	.79862065
2900.	.50631033E+04	.20756574E+05	1.93589050	.47221730	.79851231
2950.	.51199150E+04	.21049141E+05	1.94198780	.47236190	.79840320
3000.	.51766030E+04	.21334620E+05	1.94729210	.47248828	.79828534
3050.	.52324066E+04	.21624942E+05	1.95298230	.47254679	.79804176
3100.	.52880083E+04	.21916200E+05	1.95866830	.47259351	.79783264
3150.	.53427679E+04	.22204310E+05	1.96395990	.47256505	.79784118
3200.	.53973960E+04	.22497434E+05	1.96963310	.47253784	.79784278
3250.	.54516988E+04	.22787384E+05	1.97530630	.47257614	.79780833
3300.	.55059234E+04	.23073070E+05	1.98058100	.47262574	.79777353
3350.	.55589874E+04	.23359589E+05	1.98585140	.47258203	.79758204
3400.	.56103078E+04	.23646924E+05	1.99111310	.47239788	.79715494
3450.	.56615089E+04	.23930771E+05	1.99598080	.47220639	.79672636
3500.	.57125957E+04	.24219947E+05	2.00124270	.47201961	.79629621
3550.	.57635740E+04	.24505504E+05	2.00610180	.47182526	.79586475
3600.	.58144507E+04	.24787440E+05	2.01056660	.47162353	.79543182
3650.	.58645899E+04	.25074715E+05	2.01541710	.47137500	.79514551
3700.	.59144913E+04	.25355164E+05	2.01987340	.47116725	.79488843
3750.	.59642890E+04	.25623566E+05	2.02432970	.47119464	.79463049
3800.	.60139888E+04	.25887704E+05	2.02838750	.47121594	.79437177
3850.	.60635942E+04	.26156975E+05	2.03283520	.47124283	.79411207
3900.	.61131113E+04	.26426789E+05	2.03728300	.47126940	.79385153
3950.	.61625423E+04	.26692288E+05	2.04133220	.47128953	.79359010
4000.	.62118514E+04	.26963142E+05	2.04577580	.47131209	.79332231
4050.	.62609103E+04	.27234537E+05	2.05021500	.47132110	.79303178
4100.	.63098928E+04	.27506538E+05	2.05465420	.47132965	.79274021
4150.	.63584829E+04	.27774180E+05	2.05869920	.47130835	.79252766
4200.	.64066994E+04	.28047352E+05	2.06313420	.47127015	.79238766
4250.	.64548401E+04	.28321117E+05	2.06756490	.47123141	.79224738
4300.	.65029090E+04	.28594056E+05	2.07199570	.47121678	.79210662
4350.	.65509080E+04	.28860570E+05	2.07603210	.47122752	.79196539
4400.	.65988413E+04	.29127624E+05	2.08006860	.47123795	.79182347
4450.	.66467127E+04	.29400390E+05	2.08449510	.47125361	.79168124
4500.	.66945254E+04	.29668552E+05	2.08852730	.47126327	.79153848
4550.	.67422825E+04	.29937301E+05	2.09255950	.47127251	.79139531
4600.	.67899868E+04	.30211963E+05	2.09698610	.47128705	.79125166
4650.	.68377368E+04	.30481897E+05	2.10101400	.47130203	.79102594
4700.	.68858004E+04	.30752409E+05	2.10504190	.47134187	.79049445
4750.	.69338246E+04	.31023553E+05	2.10906990	.47138121	.78996074
4800.	.69817750E+04	.31289866E+05	2.11270350	.47141205	.78942064
4850.	.70295725E+04	.31562273E+05	2.11673140	.47143993	.78886491
4900.	.70773371E+04	.31835286E+05	2.12075520	.47146738	.78830713
4950.	.71250695E+04	.32096916E+05	2.12438880	.47158477	.78774690
5000.	.71727731E+04	.32360180E+05	2.12841260	.47177178	.78718430

TABLE 10

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
.5

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.49152621E+03	.11245744E+04	1.46174960	.63889791	.96943969
150.	.66951383E+03	.18445682E+04	1.62883430	.59120991	.94983833
200.	.82175485E+03	.25497783E+04	1.74071940	.56100744	.93907414
250.	.95774319E+03	.31905384E+04	1.80332960	.54132763	.93219761
300.	.10830254E+04	.37601073E+04	1.83394690	.52823253	.92863832
350.	.11980658E+04	.42718223E+04	1.84841000	.51840096	.92388831
400.	.13038831E+04	.47377473E+04	1.85468240	.51043013	.91832263
450.	.14064061E+04	.51754279E+04	1.85822470	.50496665	.91485105
500.	.15065728E+04	.55894885E+04	1.86053310	.50148211	.91325700
550.	.16033474E+04	.59870028E+04	1.86354370	.49906572	.91524763
600.	.16983452E+04	.63710362E+04	1.86673160	.49761993	.91862711
650.	.17929971E+04	.67419921E+04	1.87102570	.49758936	.92206441
700.	.18810112E+04	.71113378E+04	1.87638360	.49631990	.92232075
750.	.19652009E+04	.74818997E+04	1.88275920	.49452681	.92101765
800.	.20486988E+04	.78384434E+04	1.89012040	.49401228	.91965822
850.	.21313794E+04	.82025194E+04	1.89893540	.49342787	.91811062
900.	.22137435E+04	.85582385E+04	1.90820060	.49359066	.91653185
950.	.22959369E+04	.89185013E+04	1.91889130	.49399031	.91492151
1000.	.23779957E+04	.92789906E+04	1.93001090	.49461819	.91324209
1050.	.24538901E+04	.96361708E+04	1.94155960	.49442604	.91112603
1100.	.25269900E+04	.99981838E+04	1.95451590	.49399392	.91121981
1150.	.25996733E+04	.10351990E+05	1.96740480	.49407019	.91131419
1200.	.26720172E+04	.10709029E+05	1.98072280	.49421150	.91140905
1250.	.27440920E+04	.11060793E+05	1.99446970	.49481156	.91150436
1300.	.28159628E+04	.11401310E+05	2.00865280	.49610891	.91160022
1350.	.28865758E+04	.11740373E+05	2.02228630	.49721440	.91134524
1400.	.29549949E+04	.12083356E+05	2.03635580	.49799252	.91045927
1450.	.30231891E+04	.12425118E+05	2.04988650	.49876343	.90956391
1500.	.30912033E+04	.12768434E+05	2.06337100	.49953652	.90865879
1550.	.31589458E+04	.13113448E+05	2.07681290	.50029094	.90784064
1600.	.32247179E+04	.13457370E+05	2.08972300	.50074918	.90828468
1650.	.32898993E+04	.13800153E+05	2.10210480	.50113307	.90861533
1700.	.33533273E+04	.14147837E+05	2.11494390	.50128504	.90851512
1750.	.34158562E+04	.14494525E+05	2.12726180	.50132173	.90822713
1800.	.34781849E+04	.14843286E+05	2.13954780	.50135413	.90793663
1850.	.35403401E+04	.15194265E+05	2.15180910	.50138233	.90764346
1900.	.36023463E+04	.15544187E+05	2.16354900	.50139982	.90734767
1950.	.36642277E+04	.15893087E+05	2.17477830	.50140559	.90704912
2000.	.37259422E+04	.16240845E+05	2.18549010	.50139076	.90673202
2050.	.37859881E+04	.16594323E+05	2.19667690	.50117094	.90603304
2100.	.38449607E+04	.16943254E+05	2.20686020	.50080643	.90587012
2150.	.39034841E+04	.17292893E+05	2.21702580	.50044402	.90587629
2200.	.39618704E+04	.17635330E+05	2.22668450	.50023647	.90588262
2250.	.40201353E+04	.17979777E+05	2.23632530	.50002456	.90588860
2300.	.40782954E+04	.18322622E+05	2.24546270	.49980074	.90589448
2350.	.41357913E+04	.18663766E+05	2.25409660	.49949581	.90577451
2400.	.41922134E+04	.19010779E+05	2.26320910	.49907768	.90544221
2450.	.42483163E+04	.19356111E+05	2.27181820	.49862300	.90506407
2500.	.43043117E+04	.19676062E+05	2.28041650	.49886117	.90468366
2550.	.43602107E+04	.19986105E+05	2.28851150	.49926648	.90430068
2600.	.44156044E+04	.20296973E+05	2.29659930	.49962489	.90413143
2650.	.44703899E+04	.20608703E+05	2.30468010	.49992558	.90422519
2700.	.45242940E+04	.20917154E+05	2.31225730	.50013166	.90416141

2750.	.45777820E+04	.21222251E+05	2.31933450	.50029598	.90403538
2800.	.46311669E+04	.21532400E+05	2.32690120	.50046752	.90390869
2850.	.46844577E+04	.21839106E+05	2.33396430	.50063207	.90378118
2900.	.47376644E+04	.22146699E+05	2.34102390	.50079630	.90365295
2950.	.47907946E+04	.22459570E+05	2.34856920	.50096738	.90352386
3000.	.48437994E+04	.22764613E+05	2.35512520	.50111785	.90338325
3050.	.48958337E+04	.23075000E+05	2.36216710	.50118210	.90307405
3100.	.49476955E+04	.23386406E+05	2.36920530	.50123588	.90280761
3150.	.49988941E+04	.23694307E+05	2.37575070	.50122276	.90281057
3200.	.50499882E+04	.24007761E+05	2.38277840	.50121300	.90280917
3250.	.51008805E+04	.24319091E+05	2.38980600	.50125697	.90278520
3300.	.51517025E+04	.24626045E+05	2.39633730	.50130729	.90276100
3350.	.52012514E+04	.24933953E+05	2.40286500	.50124037	.90252684
3400.	.52488815E+04	.25242811E+05	2.40938550	.50099721	.90197678
3450.	.52963910E+04	.25547840E+05	2.41541330	.50074577	.90142495
3500.	.53437857E+04	.25858758E+05	2.42193390	.50049948	.90087129
3550.	.53910702E+04	.26165736E+05	2.42795450	.50024478	.90031593
3600.	.54382512E+04	.26468737E+05	2.43348230	.49998184	.89975876
3650.	.54848423E+04	.26777675E+05	2.43949590	.49967930	.89938511
3700.	.55312268E+04	.27078919E+05	2.44501660	.49942691	.89904788
3750.	.55775091E+04	.27366183E+05	2.45053730	.49944466	.89870963
3800.	.56236935E+04	.27648766E+05	2.45556160	.49945538	.89837025
3850.	.56697846E+04	.27937015E+05	2.46107520	.49947233	.89802980
3900.	.57157860E+04	.28225852E+05	2.46658880	.49948866	.89768817
3950.	.57617029E+04	.28509932E+05	2.47160610	.49949820	.89734556
4000.	.58075163E+04	.28799909E+05	2.47711610	.49951171	.89699821
4050.	.58531635E+04	.29090483E+05	2.48262260	.49951714	.89663628
4100.	.58987346E+04	.29381712E+05	2.48812920	.49952204	.89627304
4150.	.59439882E+04	.29668122E+05	2.49314280	.49949946	.89600702
4200.	.59889395E+04	.29960626E+05	2.49864570	.49946342	.89583045
4250.	.60338176E+04	.30253794E+05	2.50414520	.49942678	.89565351
4300.	.60786255E+04	.30546529E+05	2.50964460	.49940826	.89547591
4350.	.61233670E+04	.30832818E+05	2.51465110	.49940719	.89529780
4400.	.61680443E+04	.31119712E+05	2.51965770	.49940565	.89511891
4450.	.62126623E+04	.31412924E+05	2.52515360	.49940992	.89493960
4500.	.62572216E+04	.31701073E+05	2.53015660	.49940738	.89475952
4550.	.63017283E+04	.31989874E+05	2.53515970	.49940449	.89457911
4600.	.63461831E+04	.32285203E+05	2.54065550	.49940723	.89439801
4650.	.63906657E+04	.32575337E+05	2.54565500	.49940941	.89412244
4700.	.64353944E+04	.32866142E+05	2.55065450	.49943394	.89349494
4750.	.64800832E+04	.33157650E+05	2.55565390	.49945786	.89286498
4800.	.65247156E+04	.33443841E+05	2.56016060	.49947369	.89222983
4850.	.65692525E+04	.33736749E+05	2.56516000	.49949042	.89158393
4900.	.66137564E+04	.34030354E+05	2.57015600	.49950655	.89093558
4950.	.66582300E+04	.34311011E+05	2.57466260	.49962663	.89028473
5000.	.67026743E+04	.34593239E+05	2.57965850	.49982628	.88963115

TABLE 1p

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
.6

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.46965328E+03	.11648296E+04	1.70444250	.68722241	1.08668700
150.	.63732721E+03	.19204675E+04	1.90494140	.63217466	1.06073200
200.	.78072755E+03	.26632784E+04	2.03920060	.59778204	1.04667090
250.	.90888478E+03	.33386406E+04	2.11432580	.57558711	1.03781690
300.	.10271695E+04	.39378619E+04	2.15104250	.56108752	1.03324450
350.	.11354980E+04	.44761138E+04	2.16833000	.55006070	1.02725480
400.	.12348300E+04	.49654548E+04	2.17571360	.54106552	1.02027400
450.	.13313601E+04	.54245703E+04	2.17973030	.53497433	1.01598710
500.	.14258974E+04	.58583455E+04	2.18216850	.53113089	1.01401460
550.	.15178267E+04	.62747452E+04	2.18536550	.52862801	1.01645040
600.	.16084488E+04	.66765956E+04	2.18870430	.52727752	1.02064230
650.	.16988811E+04	.70635763E+04	2.19332250	.52752231	1.02493820
700.	.17823611E+04	.74492038E+04	2.19918600	.52619630	1.02527250
750.	.18618564E+04	.78357768E+04	2.20625780	.52422820	1.02367060
800.	.19406986E+04	.82081195E+04	2.21451250	.52359146	1.02202020
850.	.20189099E+04	.85884479E+04	2.22452160	.52292435	1.02024440
900.	.20968123E+04	.89595738E+04	2.23508810	.52307847	1.01843390
950.	.21745433E+04	.93354137E+04	2.24738630	.52349461	1.01658800
1000.	.22521258E+04	.97116125E+04	2.26022490	.52414681	1.01466000
1050.	.23235624E+04	.10084028E+05	2.27360370	.52388390	1.01211700
1100.	.23928391E+04	.10463073E+05	2.28870030	.52341138	1.01224620
1150.	.24617259E+04	.10834090E+05	2.30374280	.52345728	1.01237650
1200.	.25302957E+04	.11208642E+05	2.31932570	.52357634	1.01250790
1250.	.25986160E+04	.11577280E+05	2.33544890	.52421076	1.01264030
1300.	.26667477E+04	.11933349E+05	2.35211820	.52562827	1.01277380
1350.	.27335519E+04	.12287903E+05	2.36815060	.52681588	1.01246570
1400.	.27980162E+04	.12646703E+05	2.38472910	.52760870	1.01136290
1450.	.28622494E+04	.13004221E+05	2.40067940	.52839328	1.01024890
1500.	.29262934E+04	.13363433E+05	2.41659260	.52917980	1.00912320
1550.	.29900893E+04	.13724489E+05	2.43247180	.52995108	1.00810240
1600.	.30524029E+04	.14084388E+05	2.44772850	.53047768	1.00861440
1650.	.31143529E+04	.14443076E+05	2.46236530	.53095853	1.00906300
1700.	.31744517E+04	.14807029E+05	2.47756510	.53116061	1.00896940
1750.	.32336129E+04	.15169908E+05	2.49215080	.53122608	1.00863940
1800.	.32925835E+04	.15535012E+05	2.50671100	.53128733	1.00830680
1850.	.33513884E+04	.15902483E+05	2.52125150	.53134425	1.00797110
1900.	.34100514E+04	.16268852E+05	2.53517770	.53138882	1.00763260
1950.	.34685947E+04	.16634101E+05	2.54849830	.53142082	1.00729090
2000.	.35269708E+04	.16998119E+05	2.56120770	.53142966	1.00692640
2050.	.35835648E+04	.17368240E+05	2.57449420	.53119180	1.00608130
2100.	.36393321E+04	.17733463E+05	2.58658370	.53082903	1.00588590
2150.	.36947363E+04	.18099951E+05	2.59865910	.53046332	1.00589570
2200.	.37500119E+04	.18460693E+05	2.61013160	.53020894	1.00590580
2250.	.38051728E+04	.18823677E+05	2.62159010	.52994977	1.00591560
2300.	.38602353E+04	.19185014E+05	2.63244840	.52967748	1.00592530
2350.	.39145968E+04	.19544600E+05	2.64270700	.52930896	1.00577660
2400.	.39678308E+04	.19910554E+05	2.65354560	.52880592	1.00536450
2450.	.40208496E+04	.20274783E+05	2.66378430	.52827574	1.00492420
2500.	.40737638E+04	.20610825E+05	2.67401440	.52852338	1.00448140
2550.	.41265849E+04	.20936006E+05	2.68364460	.52895891	1.00403580
2600.	.41790139E+04	.21262072E+05	2.69326910	.52935616	1.00384870
2650.	.42309763E+04	.21589064E+05	2.70288790	.52970587	1.00397940
2700.	.42820074E+04	.21912558E+05	2.71190690	.52994292	1.00391190

2750.	.43326057E+04	.22232455E+05	2.72032860	.53013088	1.00376620
2800.	.43831058E+04	.22557766E+05	2.72933920	.53032654	1.00361960
2850.	.44335160E+04	.22879419E+05	2.73774960	.53051417	1.00347200
2900.	.44838461E+04	.23202010E+05	2.74615720	.53070169	1.00332380
2950.	.45341035E+04	.23530263E+05	2.75515070	.53089665	1.00317460
3000.	.45842342E+04	.23850115E+05	2.76295830	.53106859	1.00301110
3050.	.46333293E+04	.24175691E+05	2.77135170	.53113621	1.00263520
3100.	.46822774E+04	.24502353E+05	2.77974240	.53119490	1.00231080
3150.	.47307185E+04	.24825234E+05	2.78754150	.53119636	1.00231180
3200.	.47790711E+04	.25154075E+05	2.79592360	.53120287	1.00231020
3250.	.48272905E+04	.25481704E+05	2.80430570	.53125167	1.00229540
3300.	.48754445E+04	.25804894E+05	2.81209350	.53130251	1.00228040
3350.	.49222415E+04	.26129133E+05	2.81987860	.53121253	1.00200110
3400.	.49669867E+04	.26454423E+05	2.82765780	.53091076	1.00132400
3450.	.50116108E+04	.26775628E+05	2.83484570	.53059980	1.00064470
3500.	.50561190E+04	.27103152E+05	2.84262510	.53029441	.99996324
3550.	.51005163E+04	.27426493E+05	2.84980730	.52997982	.99927975
3600.	.51448079E+04	.27745584E+05	2.85639810	.52965614	.99859417
3650.	.51886372E+04	.28071071E+05	2.86357460	.52930110	.99813174
3700.	.52322878E+04	.28388183E+05	2.87015970	.52900536	.99771394
3750.	.52758366E+04	.28689752E+05	2.87674490	.52901245	.99729461
3800.	.53192886E+04	.28986310E+05	2.88273580	.52901190	.99687408
3850.	.53626477E+04	.29288948E+05	2.88931520	.52901794	.99645232
3900.	.54059179E+04	.29592201E+05	2.89589460	.52902344	.99602913
3950.	.54491023E+04	.29890367E+05	2.90187990	.52902127	.99560447
4000.	.54921955E+04	.30194835E+05	2.90845650	.52902461	.99517663
4050.	.55351665E+04	.30499948E+05	2.91503020	.52902309	.99473950
4100.	.55780622E+04	.30805750E+05	2.92160400	.52902097	.99430095
4150.	.56207052E+04	.31106377E+05	2.92758630	.52899439	.99397924
4200.	.56631074E+04	.31413537E+05	2.93415720	.52895816	.99376510
4250.	.57054383E+04	.31721405E+05	2.94072530	.52892127	.99355038
4300.	.57477012E+04	.32029180E+05	2.94729350	.52889777	.99333497
4350.	.57898996E+04	.32330542E+05	2.95327010	.52888494	.99311896
4400.	.58320358E+04	.32632560E+05	2.95924680	.52887156	.99290215
4450.	.58741131E+04	.32941366E+05	2.96581210	.52886437	.99268462
4500.	.59161342E+04	.33244749E+05	2.97178590	.52884995	.99246647
4550.	.59581025E+04	.33548838E+05	2.97775970	.52883491	.99224768
4600.	.60000206E+04	.33859925E+05	2.98432500	.52882606	.99202818
4650.	.60419485E+04	.34165468E+05	2.99029600	.52881505	.99170147
4700.	.60840550E+04	.34471746E+05	2.99626700	.52882302	.99097593
4750.	.61261211E+04	.34778777E+05	3.00223800	.52883035	.99024767
4800.	.61681406E+04	.35080115E+05	3.00761760	.52882973	.98951519
4850.	.62100943E+04	.35388659E+05	3.01358850	.52883235	.98877508
4900.	.62520153E+04	.35697964E+05	3.01955670	.52883447	.98803242
4950.	.62939051E+04	.35993084E+05	3.02493630	.52895334	.98728687
5000.	.63357669E+04	.36289696E+05	3.03090440	.52916130	.98653865

TABLE 1q

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
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TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.45186036E+03	.11959566E+04	1.94713540	.73567326	1.19982890
150.	.61134563E+03	.19795724E+04	2.18104830	.67356682	1.16766410
200.	.74774173E+03	.27520399E+04	2.33768180	.63515874	1.15040350
250.	.86968584E+03	.34547395E+04	2.42532190	.61054331	1.13962570
300.	.98241548E+03	.40773482E+04	2.46813790	.59468475	1.13408090
350.	.10854070E+04	.46365447E+04	2.48825000	.58249495	1.12686610
400.	.11795806E+04	.51443426E+04	2.49674480	.57249524	1.11847220
450.	.12713291E+04	.56203337E+04	2.50123590	.56578382	1.11336760
500.	.13613813E+04	.60696100E+04	2.50380380	.56158988	1.11102450
550.	.14494707E+04	.65008718E+04	2.50718730	.55901648	1.11393890
600.	.15366238E+04	.69167282E+04	2.51067720	.55777329	1.11897860
650.	.16237044E+04	.73162454E+04	2.51561930	.55829484	1.12416370
700.	.17035755E+04	.77146298E+04	2.52198830	.55691556	1.12458670
750.	.17793289E+04	.81137330E+04	2.52975650	.55477161	1.12268560
800.	.18544520E+04	.84984687E+04	2.53890460	.55401471	1.12074010
850.	.19290444E+04	.88915539E+04	2.55010790	.55325214	1.11870970
900.	.20033289E+04	.92747378E+04	2.56197560	.55338272	1.11664070
950.	.20774366E+04	.96627566E+04	2.57588140	.55379954	1.11453220
1000.	.21513794E+04	.10051237E+05	2.59043870	.55446074	1.11232780
1050.	.22192167E+04	.10435540E+05	2.60564800	.55411579	1.10933830
1100.	.22854384E+04	.10827971E+05	2.62288450	.55360703	1.10950710
1150.	.23512917E+04	.11212552E+05	2.64008070	.55362952	1.10967760
1200.	.24168470E+04	.11600910E+05	2.65792850	.55373298	1.10984980
1250.	.24821682E+04	.11982822E+05	2.67642810	.55440569	1.11002360
1300.	.25473142E+04	.12351071E+05	2.69558370	.55594357	1.11019930
1350.	.26110790E+04	.12717756E+05	2.71401500	.55721367	1.10984130
1400.	.26723910E+04	.13088945E+05	2.73310240	.55802191	1.10852300
1450.	.27334675E+04	.13458804E+05	2.75147230	.55882083	1.10719150
1500.	.27943484E+04	.13830465E+05	2.76981420	.55962151	1.10584630
1550.	.28550031E+04	.14204083E+05	2.78813080	.56041083	1.10462540
1600.	.29145912E+04	.14576494E+05	2.80573400	.56101059	1.10522040
1650.	.29739433E+04	.14947635E+05	2.82262590	.56158243	1.10578600
1700.	.30313678E+04	.15324326E+05	2.84018640	.56182891	1.10569620
1750.	.30878249E+04	.15699882E+05	2.85704000	.56191754	1.10532120
1800.	.31440982E+04	.16077781E+05	2.87387440	.56200188	1.10494310
1850.	.32002119E+04	.16458161E+05	2.89069390	.56208181	1.10456160
1900.	.32561885E+04	.16837391E+05	2.90680640	.56214822	1.10417710
1950.	.33120501E+04	.17215431E+05	2.92221830	.56220105	1.10378930
2000.	.33677429E+04	.17592159E+05	2.93692530	.56222828	1.10337390
2050.	.34215643E+04	.17975290E+05	2.95231160	.56196717	1.10237780
2100.	.34747715E+04	.18353242E+05	2.96630730	.56160323	1.10215130
2150.	.35276900E+04	.18732928E+05	2.98029230	.56123351	1.10216810
2200.	.35804858E+04	.19108126E+05	2.99357890	.56093758	1.10218520
2250.	.36331737E+04	.19485756E+05	3.00685480	.56063644	1.10220210
2300.	.36857684E+04	.19861708E+05	3.01943430	.56032114	1.10221910
2350.	.37376337E+04	.20235873E+05	3.03131750	.55989450	1.10204460
2400.	.37883273E+04	.20616808E+05	3.04388210	.55931165	1.10155410
2450.	.38388624E+04	.20995983E+05	3.05575030	.55870706	1.10104720
2500.	.38892957E+04	.21344672E+05	3.06761210	.55896150	1.10053770
2550.	.39396363E+04	.21681722E+05	3.07877770	.55942346	1.10002470
2600.	.39896816E+04	.22019705E+05	3.08993890	.55985636	1.09981740
2650.	.40393826E+04	.22358668E+05	3.10109590	.56025305	1.09998590
2700.	.40881131E+04	.22693953E+05	3.11155640	.56051909	1.09991470

2750.	•41363975E+04	•23025450E+05	3.12132280	•56072871	1.09974890
2800.	•41845880E+04	•23362646E+05	3.13177710	•56094656	1.09958240
2850.	•42326924E+04	•23696007E+05	3.14153490	•56115572	1.09941490
2900.	•42807193E+04	•24030348E+05	3.15129060	•56136473	1.09924640
2950.	•43286762E+04	•24370649E+05	3.16173210	•56158184	1.09907700
3000.	•43765057E+04	•24702097E+05	3.17079130	•56177360	1.09889020
3050.	•44232495E+04	•25039574E+05	3.18053640	•56184286	1.09844690
3100.	•44698678E+04	•25378181E+05	3.19027930	•56190496	1.09806450
3150.	•45161126E+04	•25712790E+05	3.19933220	•56192050	1.09806580
3200.	•45622804E+04	•26053681E+05	3.20906880	•56194251	1.09806620
3250.	•46083528E+04	•26394144E+05	3.21880540	•56199549	1.09805960
3300.	•46543640E+04	•26730127E+05	3.22784980	•56204697	1.09805300
3350.	•46989518E+04	•27067237E+05	3.23689220	•56193397	1.09772650
3400.	•47413846E+04	•27405483E+05	3.24593010	•56157382	1.09691940
3450.	•47836959E+04	•27739436E+05	3.25427820	•56120380	1.09610970
3500.	•48258903E+04	•28080056E+05	3.26331630	•56083955	1.09529740
3550.	•48679727E+04	•28416298E+05	3.27166010	•56046540	1.09448290
3600.	•49099482E+04	•28748074E+05	3.27931390	•56008138	1.09366590
3650.	•49515712E+04	•29086616E+05	3.28765340	•55967490	1.09311400
3700.	•49930385E+04	•29416229E+05	3.29530300	•55933661	1.09261510
3750.	•50344055E+04	•29729013E+05	3.30295250	•55933246	1.09211460
3800.	•50756763E+04	•30036525E+05	3.30990990	•55932006	1.09161260
3850.	•51168538E+04	•30350440E+05	3.31755520	•55931459	1.09110900
3900.	•51579435E+04	•30664996E+05	3.32520050	•55930860	1.09060390
3950.	•51989483E+04	•30974199E+05	3.33215370	•55929433	1.09009730
4000.	•52398666E+04	•31290027E+05	3.33979690	•55928651	1.08958800
4050.	•52806878E+04	•31606533E+05	3.34743780	•55927592	1.08907320
4100.	•53214335E+04	•31923757E+05	3.35507890	•55926465	1.08855670
4150.	•53619825E+04	•32235525E+05	3.36202990	•55923224	1.08817760
4200.	•54023436E+04	•32554169E+05	3.36966870	•55919436	1.08792520
4250.	•54426349E+04	•32873562E+05	3.37730550	•55915571	1.08767210
4300.	•54828603E+04	•33193146E+05	3.38494230	•55912642	1.08741820
4350.	•55230215E+04	•33506375E+05	3.39188900	•55910181	1.08716350
4400.	•55631222E+04	•33820294E+05	3.39883590	•55907671	1.08690790
4450.	•56031653E+04	•34141381E+05	3.40647050	•55905814	1.08665160
4500.	•56431529E+04	•34456761E+05	3.41341510	•55903173	1.08639440
4550.	•56830892E+04	•34772885E+05	3.42035980	•55900478	1.08613670
4600.	•57229752E+04	•35096384E+05	3.42799450	•55898428	1.08587800
4650.	•57628556E+04	•35414058E+05	3.43493700	•55896008	1.08549940
4700.	•58028505E+04	•35732515E+05	3.44187950	•55895063	1.08467410
4750.	•58428043E+04	•36051771E+05	3.44882210	•55894041	1.08384580
4800.	•58827166E+04	•36365035E+05	3.45507450	•55892216	1.08301390
4850.	•59225790E+04	•36685886E+05	3.46201700	•55890892	1.08217640
4900.	•59624091E+04	•37007556E+05	3.46895740	•55889513	1.08133640
4950.	•60022071E+04	•37314032E+05	3.47521000	•55901034	1.08049320
5000.	•60419754E+04	•37621923E+05	3.48215040	•55922359	1.07964690

TABLE 1r

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
•8

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.43713021E+03	.12207469E+04	2.18982830	.78414297	1.30999660
150.	.58996331E+03	.20269019E+04	2.45715540	.71519568	1.27174600
200.	.72067802E+03	.28233526E+04	2.63616300	.67289671	1.25136540
250.	.83757648E+03	.35481900E+04	2.73631810	.64592809	1.23870700
300.	.94579264E+03	.41897122E+04	2.78523350	.62874325	1.23222230
350.	.10444429E+04	.47658592E+04	2.80817000	.61541331	1.22379510
400.	.11344192E+04	.52885769E+04	2.81777600	.60442329	1.21399090
450.	.12222675E+04	.57781986E+04	2.82274150	.59709700	1.20806740
500.	.13086654E+04	.62399824E+04	2.82543920	.59255848	1.20535990
550.	.13936388E+04	.66832445E+04	2.82900910	.58992556	1.20877770
600.	.14779758E+04	.71104033E+04	2.83264990	.58879754	1.21469110
650.	.15623316E+04	.75199921E+04	2.83791610	.58959716	1.22078760
700.	.16392646E+04	.79286443E+04	2.84479070	.58816670	1.22130710
750.	.17119680E+04	.83378187E+04	2.85325510	.58584643	1.21910710
800.	.17840546E+04	.87325395E+04	2.86329670	.58497045	1.21686310
850.	.18556618E+04	.91359017E+04	2.87569420	.58410389	1.21455810
900.	.19269587E+04	.95287802E+04	2.88886300	.58420065	1.21221010
950.	.19980716E+04	.99265838E+04	2.90437640	.58460716	1.20981840
1000.	.20690029E+04	.10324930E+05	2.92065270	.58526681	1.20731660
1050.	.21338777E+04	.10718765E+05	2.93769210	.58483189	1.20386580
1100.	.21976043E+04	.11121996E+05	2.95706890	.58428966	1.20407730
1150.	.22609809E+04	.11517541E+05	2.97641870	.58429362	1.20429120
1200.	.23240749E+04	.11917062E+05	2.99653150	.58438595	1.20450740
1250.	.23869479E+04	.12309686E+05	3.01740730	.58509973	1.20472600
1300.	.24496565E+04	.12687735E+05	3.03904910	.58675770	1.20494690
1350.	.25109418E+04	.13064175E+05	3.05987950	.58811056	1.20454160
1400.	.25696847E+04	.13445330E+05	3.08147580	.58893468	1.20300890
1450.	.26281886E+04	.13825114E+05	3.10226520	.58974833	1.20146090
1500.	.26864925E+04	.14206789E+05	3.12303600	.59056361	1.19989740
1550.	.27445898E+04	.14590510E+05	3.14378980	.59137161	1.19847820
1600.	.28019754E+04	.14972983E+05	3.16373950	.59204770	1.19916750
1650.	.28591958E+04	.15354137E+05	3.18288640	.59270640	1.19984910
1700.	.29144282E+04	.15741073E+05	3.20280770	.59299343	1.19976120
1750.	.29686683E+04	.16126820E+05	3.22192900	.59310133	1.19933860
1800.	.30227304E+04	.16515008E+05	3.24103760	.59320484	1.19891260
1850.	.30766378E+04	.16905768E+05	3.26013640	.59330389	1.19848310
1900.	.31304116E+04	.17295335E+05	3.27843510	.59338839	1.19805000
1950.	.31840729E+04	.17683642E+05	3.29593830	.59345846	1.19761320
2000.	.32375651E+04	.18070578E+05	3.31264290	.59350049	1.19714460
2050.	.32891142E+04	.18464159E+05	3.33012900	.59321272	1.19599400
2100.	.33402316E+04	.18852328E+05	3.34603080	.59284545	1.19573750
2150.	.33911237E+04	.19242635E+05	3.36192550	.59247109	1.19576370
2200.	.34418990E+04	.19629538E+05	3.37702600	.59213731	1.19579030
2250.	.34925715E+04	.20019030E+05	3.39211950	.59179785	1.19581680
2300.	.35431551E+04	.20406821E+05	3.40642010	.59144312	1.19584350
2350.	.35929872E+04	.20792795E+05	3.41992790	.59096225	1.19564540
2400.	.36416107E+04	.21185873E+05	3.43421850	.59030307	1.19507770
2450.	.36901055E+04	.21577163E+05	3.44771640	.58962510	1.19450090
2500.	.37384992E+04	.21936053E+05	3.46121000	.58988415	1.19392080
2550.	.37868024E+04	.22282656E+05	3.47391080	.59037006	1.19333740
2600.	.38348923E+04	.22630235E+05	3.48660870	.59083646	1.19310820
2650.	.38827422E+04	.22978830E+05	3.49930380	.59127875	1.19331460
2700.	.39295907E+04	.23323607E+05	3.51120610	.59157239	1.19323960

2750.	.39759830E+04	.23664443E+05	3.52231690	.59180230	1.19305400
2800.	.40222844E+04	.24011201E+05	3.53421510	.59204110	1.19286730
2850.	.40685027E+04	.24353980E+05	3.54532020	.59227050	1.19267960
2900.	.41146457E+04	.24697773E+05	3.55642400	.59249973	1.19249080
2950.	.41607212E+04	.25047768E+05	3.56831360	.59273776	1.19230110
3000.	.42066689E+04	.25388541E+05	3.57862440	.59294809	1.19209100
3050.	.42514902E+04	.25735587E+05	3.58972110	.59301790	1.19157970
3100.	.42962050E+04	.26083803E+05	3.60081640	.59308241	1.19113900
3150.	.43406623E+04	.26427843E+05	3.61112300	.59311177	1.19114300
3200.	.43850482E+04	.26778426E+05	3.62221410	.59314849	1.19114650
3250.	.44293604E+04	.27129249E+05	3.63330510	.59320539	1.19114740
3300.	.44736141E+04	.27475574E+05	3.64360610	.59325737	1.19114800
3350.	.45163923E+04	.27823088E+05	3.65390580	.59312151	1.19077340
3400.	.45569324E+04	.28171806E+05	3.66420240	.59270328	1.18983410
3450.	.45973504E+04	.28516065E+05	3.67371070	.59227438	1.18889190
3500.	.46376508E+04	.28867267E+05	3.68400750	.59185166	1.18794670
3550.	.46778382E+04	.29213946E+05	3.69351290	.59141805	1.18699890
3600.	.47179177E+04	.29555978E+05	3.70222970	.59097401	1.18604840
3650.	.47577388E+04	.29905076E+05	3.71173220	.59051687	1.18540660
3700.	.47974247E+04	.30244791E+05	3.72044610	.59013666	1.18482640
3750.	.48370108E+04	.30566598E+05	3.72916010	.59012085	1.18424450
3800.	.48765018E+04	.30882929E+05	3.73708410	.59009613	1.18366090
3850.	.49159003E+04	.31205922E+05	3.74579520	.59007886	1.18307560
3900.	.49552108E+04	.31529575E+05	3.75450630	.59006091	1.18248840
3950.	.49944363E+04	.31847657E+05	3.76242750	.59003411	1.18189950
4000.	.50335788E+04	.32172625E+05	3.77113720	.59001452	1.18130830
4050.	.50726370E+04	.32498304E+05	3.77984550	.58999337	1.18071380
4100.	.51116197E+04	.32824720E+05	3.78855370	.58997136	1.18011740
4150.	.51504534E+04	.33145448E+05	3.79647340	.58993195	1.17967980
4200.	.51891445E+04	.33473335E+05	3.80518030	.58989132	1.17938850
4250.	.52277674E+04	.33801998E+05	3.81388570	.58984995	1.17909640
4300.	.52663254E+04	.34131105E+05	3.82259120	.58981415	1.17880350
4350.	.53048210E+04	.34453911E+05	3.83050800	.58977800	1.17850970
4400.	.53432567E+04	.34777443E+05	3.83842490	.58974114	1.17821490
4450.	.53816358E+04	.35108448E+05	3.84712900	.58971125	1.17791910
4500.	.54199604E+04	.35433517E+05	3.85504440	.58967296	1.17762260
4550.	.54582336E+04	.35759360E+05	3.86295990	.58963407	1.17732520
4600.	.54964579E+04	.36092880E+05	3.87166400	.58960210	1.17702680
4650.	.55346613E+04	.36420354E+05	3.87957800	.58956456	1.17659550
4700.	.55729208E+04	.36748648E+05	3.88749200	.58953692	1.17566890
4750.	.56111403E+04	.37077774E+05	3.89540610	.58950869	1.17473950
4800.	.56493192E+04	.37400668E+05	3.90253160	.58947198	1.17380650
4850.	.56874569E+04	.37731461E+05	3.91044550	.58944152	1.17286930
4900.	.57255615E+04	.38063114E+05	3.91835820	.58941052	1.17192940
4950.	.57636330E+04	.38378747E+05	3.92548370	.58932021	1.17098590
5000.	.58016747E+04	.38695718E+05	3.93339630	.58973669	1.17003940

TABLE 1s

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

W
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TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.42474835E+03	.12409575E+04	2.43252120	.83259039	1.41794290
150.	.57207370E+03	.20656567E+04	2.73326240	.75696387	1.37371000
200.	.69809010E+03	.28818989E+04	2.93464420	.71086671	1.35027430
250.	.81081168E+03	.36250268E+04	3.04731420	.68159438	1.33577040
300.	.91529001E+03	.42821592E+04	3.10232890	.66310720	1.32837150
350.	.10103414E+04	.48723031E+04	3.12809000	.64865398	1.31874200
400.	.10968378E+04	.54073318E+04	3.13880720	.63668412	1.30753090
450.	.11814460E+04	.59081928E+04	3.14424710	.62874693	1.30078780
500.	.12648107E+04	.63802793E+04	3.14707450	.62386822	1.29772100
550.	.13472062E+04	.68334357E+04	3.15083090	.62118370	1.30166130
600.	.14292122E+04	.72699053E+04	3.15462270	.62017660	1.30846750
650.	.15113102E+04	.76877638E+04	3.16021290	.62125502	1.31549200
700.	.15858059E+04	.81048578E+04	3.16759300	.61977492	1.31611410
750.	.16559768E+04	.85223050E+04	3.17675380	.61727789	1.31361520
800.	.17255391E+04	.89252410E+04	3.18768880	.61628381	1.31107060
850.	.17946443E+04	.93370613E+04	3.20128050	.61530706	1.30847540
900.	.18634354E+04	.97379035E+04	3.21575050	.61336277	1.30583260
950.	.19320339E+04	.10143740E+05	3.23287150	.61575092	1.30314140
1000.	.20004352E+04	.10550186E+05	3.25086670	.61640127	1.30032600
1050.	.20628311E+04	.10951836E+05	3.26973630	.61587059	1.29640270
1100.	.21244830E+04	.11363963E+05	3.29125330	.61529693	1.29665910
1150.	.21858000E+04	.11768555E+05	3.31275670	.61528569	1.29691860
1200.	.22468476E+04	.12177286E+05	3.33513440	.61537018	1.29718120
1250.	.23076853E+04	.12578740E+05	3.35838650	.61612682	1.29744690
1300.	.23683680E+04	.12964840E+05	3.38251450	.61790497	1.29771580
1350.	.24275932E+04	.13349297E+05	3.40574390	.61934053	1.29726520
1400.	.24842028E+04	.13738643E+05	3.42984910	.62018066	1.29551890
1450.	.25405714E+04	.14126581E+05	3.45305810	.62100947	1.29375550
1500.	.25967361E+04	.14516483E+05	3.47625760	.62183957	1.29197470
1550.	.26527120E+04	.14908507E+05	3.49944880	.62266662	1.29035880
1600.	.27082817E+04	.15299246E+05	3.52174500	.62342140	1.29115100
1650.	.27637234E+04	.15688626E+05	3.54314700	.62416416	1.29194780
1700.	.28171266E+04	.16083978E+05	3.56542890	.62448879	1.29186020
1750.	.28695178E+04	.16478099E+05	3.58681810	.62461319	1.29138800
1800.	.29217355E+04	.16874739E+05	3.60820090	.62473309	1.29091220
1850.	.29738020E+04	.17274024E+05	3.62957880	.62484850	1.29043240
1900.	.30257379E+04	.17672075E+05	3.65006390	.62494845	1.28994880
1950.	.30775635E+04	.18068813E+05	3.66965820	.62503308	1.28946130
2000.	.31292195E+04	.18464128E+05	3.68836050	.62508714	1.28893720
2050.	.31788735E+04	.18866285E+05	3.70794640	.62477016	1.28762960
2100.	.32282532E+04	.19262839E+05	3.72575430	.62439799	1.28734380
2150.	.32774626E+04	.19661873E+05	3.74355870	.62401852	1.28738120
2200.	.33265606E+04	.20058443E+05	3.76047330	.62364970	1.28741930
2250.	.33755599E+04	.20457735E+05	3.77738420	.62327457	1.28745740
2300.	.34244744E+04	.20855309E+05	3.79340590	.62288317	1.28749570
2350.	.34726196E+04	.21251049E+05	3.80853840	.62235068	1.28727580
2400.	.35195243E+04	.21654162E+05	3.82455500	.62161786	1.28663170
2450.	.35663145E+04	.22055472E+05	3.83968250	.62086701	1.28598240
2500.	.36130042E+04	.22422760E+05	3.85480780	.62112942	1.28532930
2550.	.36596044E+04	.22777220E+05	3.86904390	.62163732	1.28467250
2600.	.37060625E+04	.23132688E+05	3.88327850	.62213574	1.28442000
2650.	.37523708E+04	.23489206E+05	3.89751180	.62262253	1.28466490
2700.	.37976524E+04	.23841785E+05	3.91085570	.62294287	1.28458620

2750.	.38424691E+04	.24190297E+05	3.92331100	.62319205	1.28438030
2800.	.38871976E+04	.24544915E+05	3.93665300	.62345084	1.28417340
2850.	.39318454E+04	.24895434E+05	3.94910550	.62369959	1.28396530
2900.	.39764202E+04	.25246993E+05	3.96155740	.62394820	1.28375620
2950.	.40209293E+04	.25604954E+05	3.97489500	.62420619	1.28354590
3000.	.40653100E+04	.25953388E+05	3.98645750	.62443427	1.28331250
3050.	.41085314E+04	.26308298E+05	3.99890580	.62450372	1.28273280
3100.	.41516628E+04	.26664408E+05	4.01135340	.62456987	1.28223370
3150.	.41946367E+04	.27016196E+05	4.02291380	.62461276	1.28224180
3200.	.42375435E+04	.27374739E+05	4.03535940	.62466385	1.28224990
3250.	.42803874E+04	.27734106E+05	4.04780480	.62472437	1.28225750
3300.	.43231752E+04	.28088961E+05	4.05936240	.62477690	1.28226490
3350.	.43644441E+04	.28445057E+05	4.07091940	.62461818	1.28184080
3400.	.44034072E+04	.28802416E+05	4.08247470	.62414201	1.28076760
3450.	.44422482E+04	.29155178E+05	4.09314320	.62365450	1.27969140
3500.	.44809707E+04	.29515116E+05	4.10469870	.62317335	1.27861180
3550.	.45195794E+04	.29870401E+05	4.11536560	.62268065	1.27752920
3600.	.45580790E+04	.30220898E+05	4.12514540	.62217668	1.27644340
3650.	.45964020E+04	.30578704E+05	4.13581100	.62166954	1.27571130
3700.	.46346072E+04	.30926751E+05	4.14558930	.62124786	1.27504990
3750.	.46727140E+04	.31255984E+05	4.15536770	.62122005	1.27438660
3800.	.47107252E+04	.31579559E+05	4.16425820	.62118270	1.27372120
3850.	.47486449E+04	.31910015E+05	4.17403520	.62115326	1.27305390
3900.	.47864768E+04	.32241147E+05	4.18381210	.62112303	1.27238460
3950.	.48242246E+04	.32566527E+05	4.19270130	.62108348	1.27171350
4000.	.48618902E+04	.32899011E+05	4.20247760	.62105161	1.27104000
4050.	.48994771E+04	.33232226E+05	4.21225310	.62101879	1.27036430
4100.	.49369888E+04	.33566200E+05	4.22202860	.62098500	1.26968650
4150.	.49743932E+04	.33894293E+05	4.23091700	.62093769	1.26918960
4200.	.50116939E+04	.34229775E+05	4.24069180	.62089362	1.26885900
4250.	.50489278E+04	.34566055E+05	4.25046590	.62084883	1.26852760
4300.	.50860974E+04	.34902999E+05	4.26024010	.62080613	1.26819510
4350.	.51232061E+04	.35233706E+05	4.26912700	.62075834	1.26786190
4400.	.51602556E+04	.35565163E+05	4.27801400	.62070979	1.26752740
4450.	.51972487E+04	.35904340E+05	4.28778750	.62066864	1.26719180
4500.	.52341888E+04	.36237391E+05	4.29667370	.62061865	1.26685550
4550.	.52710776E+04	.36571251E+05	4.30556000	.62056777	1.26651810
4600.	.53079179E+04	.36913037E+05	4.31533350	.62052426	1.26617970
4650.	.53447243E+04	.37248589E+05	4.32421900	.62047338	1.26569510
4700.	.53815341E+04	.37584989E+05	4.33310450	.62042718	1.26466630
4750.	.54183031E+04	.37922251E+05	4.34199010	.62038031	1.26363440
4800.	.54550327E+04	.38253086E+05	4.34998860	.62032459	1.26259900
4850.	.54917241E+04	.38592071E+05	4.35887410	.62027593	1.26156000
4900.	.55283820E+04	.38931960E+05	4.36775900	.62022667	1.26051800
4950.	.55650062E+04	.39255125E+05	4.37575740	.62017962	1.25947250
5000.	.56016006E+04	.39579564E+05	4.38464220	.62013286	1.25842370

TABLE 1t

MIXTURE PROPERTIES FOR HYDROGEN-NITROGEN

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL
100.	.41420203E+03	.12577512E+04	2.67521420	.88100023
150.	.55689404E+03	.20979734E+04	3.00936950	.79881846
200.	.67896144E+03	.29308256E+04	3.23312550	.74899287
250.	.78816954E+03	.36893177E+04	3.35831050	.71745461
300.	.88950265E+03	.43595513E+04	3.41942450	.69768352
350.	.98152341E+03	.49614480E+04	3.44801000	.68211991
400.	.10650886E+04	.55068076E+04	3.45983850	.66917800
450.	.11469634E+04	.60170927E+04	3.46575280	.66063326
500.	.12277710E+04	.64978151E+04	3.46870990	.65541744
550.	.13079988E+04	.69592676E+04	3.47265280	.65268730
600.	.13880442E+04	.74035399E+04	3.47659560	.65180553
650.	.14682413E+04	.78283118E+04	3.48250980	.65316313
700.	.15406829E+04	.82524683E+04	3.49039550	.65163444
750.	.16087183E+04	.86768323E+04	3.50025260	.64896038
800.	.16761495E+04	.90866482E+04	3.51208110	.64784866
850.	.17431288E+04	.95055496E+04	3.52686680	.64675723
900.	.18097891E+04	.99130512E+04	3.54263810	.64676633
950.	.18762487E+04	.10325602E+05	3.56136660	.64713024
1000.	.19424959E+04	.10738816E+05	3.58108070	.64776549
1050.	.20027882E+04	.11146988E+05	3.60178060	.64713477
1100.	.20626883E+04	.11566570E+05	3.62543770	.64653115
1150.	.21222666E+04	.11978754E+05	3.64909470	.64650729
1200.	.21815865E+04	.12395216E+05	3.67373740	.64658622
1250.	.22407062E+04	.12804071E+05	3.69936580	.64738720
1300.	.22996789E+04	.13196904E+05	3.72598000	.64928543
1350.	.23571659E+04	.13588066E+05	3.75160840	.65080367
1400.	.24119765E+04	.13984261E+05	3.77822250	.65166001
1450.	.24665445E+04	.14379019E+05	3.80385100	.65250401
1500.	.25209058E+04	.14775803E+05	3.82947940	.65334904
1550.	.25750942E+04	.15174770E+05	3.85510780	.65419546
1600.	.26291413E+04	.15572423E+05	3.87975060	.65503049
1650.	.26830764E+04	.15968680E+05	3.90340760	.65585508
1700.	.27349315E+04	.16371068E+05	3.92805030	.65621546
1750.	.27857579E+04	.16772189E+05	3.95170730	.65635433
1800.	.28364144E+04	.17175895E+05	3.97536430	.65648864
1850.	.28869225E+04	.17582307E+05	3.99902140	.65661826
1900.	.29373025E+04	.17987453E+05	4.02169270	.65673155
1950.	.29875740E+04	.18391234E+05	4.04337830	.65682873
2000.	.30376747E+04	.18793546E+05	4.06407820	.65689290
2050.	.30857248E+04	.19202868E+05	4.08576380	.65654474
2100.	.31336380E+04	.19606422E+05	4.10547790	.65616668
2150.	.31814287E+04	.20012754E+05	4.12519210	.65578200
2200.	.32291118E+04	.20417448E+05	4.14392060	.65537975
2250.	.32767004E+04	.20824974E+05	4.16264910	.65497094
2300.	.33242078E+04	.21230768E+05	4.18039180	.65454490
2350.	.33709311E+04	.21634712E+05	4.19714890	.65396289
2400.	.34163865E+04	.22046261E+05	4.21489160	.65315828
2450.	.34617317E+04	.22455993E+05	4.23164870	.65233508
2500.	.35069775E+04	.22830318E+05	4.24840570	.65259988
2550.	.35521336E+04	.23191353E+05	4.26417710	.65312817
2600.	.35972097E+04	.23553421E+05	4.27994840	.65365753
2650.	.36422147E+04	.23916567E+05	4.29571980	.65418807
2700.	.36861719E+04	.24275672E+05	4.31050540	.65453442

2750.	.37296571E+04	.24630604E+05	4.32430530	.65480225
2800.	.37730563E+04	.24991801E+05	4.33909100	.65508020
2850.	.38163769E+04	.25348790E+05	4.35289090	.65534773
2900.	.38596263E+04	.25706845E+05	4.36669080	.65561503
2950.	.39028116E+04	.26071470E+05	4.38147650	.65589232
3000.	.39458680E+04	.26426310E+05	4.39429070	.65613742
3050.	.39877378E+04	.26787795E+05	4.40809060	.65620589
3100.	.40295314E+04	.27150504E+05	4.42189050	.65627312
3150.	.40712551E+04	.27508768E+05	4.43470470	.65632942
3200.	.41129145E+04	.27873969E+05	4.44850470	.65639446
3250.	.41545149E+04	.28240499E+05	4.46230460	.65645830
3300.	.41960619E+04	.28602512E+05	4.47511880	.65651139
3350.	.42360542E+04	.28965808E+05	4.48793300	.65632993
3400.	.42736840E+04	.29330416E+05	4.50074720	.65579605
3450.	.43111909E+04	.29690312E+05	4.51257580	.65524993
3500.	.43485792E+04	.30057581E+05	4.52539000	.65471057
3550.	.43858529E+04	.30420086E+05	4.53721850	.65415896
3600.	.44230169E+04	.30777684E+05	4.54806130	.65359534
3650.	.44600750E+04	.31142803E+05	4.55988980	.65303852
3700.	.44970309E+04	.31497840E+05	4.57073260	.65257570
3750.	.45338885E+04	.31833280E+05	4.58157540	.65253571
3800.	.45706515E+04	.32162915E+05	4.59143250	.65248554
3850.	.46073233E+04	.32499614E+05	4.60227530	.65244374
3900.	.46439077E+04	.32837003E+05	4.61311810	.65240101
3950.	.46804077E+04	.33168486E+05	4.62297520	.65234837
4000.	.47168268E+04	.33507259E+05	4.63381800	.65230390
4050.	.47531681E+04	.33846781E+05	4.64466080	.65225857
4100.	.47894346E+04	.34187073E+05	4.65550360	.65221231
4150.	.48256293E+04	.34521327E+05	4.66536060	.65215627
4200.	.48617551E+04	.34863163E+05	4.67620340	.65210821
4250.	.48978149E+04	.35205821E+05	4.68704620	.65205932
4300.	.49338114E+04	.35549322E+05	4.69788900	.65200956
4350.	.49697473E+04	.35886649E+05	4.70774610	.65195020
4400.	.50056250E+04	.36224751E+05	4.71760320	.65188997
4450.	.50414475E+04	.36570782E+05	4.72844600	.65183763
4500.	.50772167E+04	.36910531E+05	4.73830310	.65177580
4550.	.51129355E+04	.37251109E+05	4.74816020	.65171310
4600.	.51486061E+04	.37599825E+05	4.75900300	.65165811
4650.	.51842305E+04	.37942150E+05	4.76886010	.65159378
4700.	.52198115E+04	.38285350E+05	4.77871720	.65152863
4750.	.52553511E+04	.38629435E+05	4.78857430	.65146277
4800.	.52908511E+04	.38966923E+05	4.79744570	.65138758
4850.	.53263137E+04	.39312782E+05	4.80730270	.65132002
4900.	.53617417E+04	.39659573E+05	4.81715980	.65125174
4950.	.53971360E+04	.39989049E+05	4.82603120	.65134697
5000.	.54324990E+04	.40319737E+05	4.83588830	.65156570

TABLE 2a

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W			
.00	.00000000			
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL
100.	.50158157E+03	.10852613E+03	.15861380	.73307467
150.	.75071502E+03	.16248998E+03	.16423085	.75875792
200.	.10060356E+04	.23010619E+03	.17571780	.76824686
250.	.12561102E+04	.30911820E+03	.18915536	.76863791
300.	.14964642E+04	.39559807E+03	.20211882	.76457291
350.	.17230701E+04	.48622572E+03	.21389475	.75799289
400.	.19397056E+04	.57918197E+03	.22442896	.75162234
450.	.21439942E+04	.67268209E+03	.23385693	.74535639
500.	.23386818E+04	.76611684E+03	.24234120	.73978134
550.	.25247219E+04	.85945980E+03	.25001723	.73444269
600.	.27039672E+04	.95110640E+03	.25698886	.73061167
650.	.28741233E+04	.10415876E+04	.26335094	.72668210
700.	.30392186E+04	.11307255E+04	.26916214	.72346699
750.	.31982062E+04	.12186026E+04	.27446763	.72033661
800.	.33527242E+04	.13043563E+04	.27931707	.71795804
850.	.35028677E+04	.13890672E+04	.28375562	.71555817
900.	.36484347E+04	.14716807E+04	.28781489	.71352012
950.	.37906833E+04	.15521762E+04	.29153099	.71196916
1000.	.39293989E+04	.16310391E+04	.29493101	.71052956
1050.	.40653008E+04	.17082404E+04	.29805561	.70931802
1100.	.41951062E+04	.17842702E+04	.30090025	.70746487
1150.	.43230749E+04	.18587503E+04	.30356429	.70602872
1200.	.44510087E+04	.19312200E+04	.30595740	.70515995
1250.	.45790359E+04	.20028394E+04	.30821506	.70466348
1300.	.47034675E+04	.20728301E+04	.31029210	.70408510
1350.	.48229568E+04	.21411642E+04	.31214338	.70310067
1400.	.49422805E+04	.22084878E+04	.31390435	.70247311
1450.	.50615251E+04	.22746095E+04	.31552986	.70212592
1500.	.51795904E+04	.23395489E+04	.31701991	.70185889
1550.	.52921379E+04	.24031225E+04	.31839708	.70117157
1600.	.54044585E+04	.24648445E+04	.31977425	.70114224
1650.	.55166132E+04	.25254183E+04	.32094823	.70109066
1700.	.56286595E+04	.25863363E+04	.32212221	.70103652
1750.	.57362782E+04	.26465624E+04	.32316073	.70043305
1800.	.58432952E+04	.27071407E+04	.32419925	.69977592
1850.	.59501274E+04	.27673591E+04	.32514747	.69910291
1900.	.60568181E+04	.28246471E+04	.32609568	.69923857
1950.	.61608952E+04	.28807190E+04	.32690844	.69914788
2000.	.62634820E+04	.29369757E+04	.32772119	.69890796
2050.	.63658819E+04	.29928433E+04	.32846622	.69865906
2100.	.64681284E+04	.30489093E+04	.32921125	.69840732
2150.	.65660579E+04	.31043759E+04	.32986597	.69769869
2200.	.66573411E+04	.31580020E+04	.33052069	.69676615
2250.	.67481865E+04	.32106069E+04	.33113025	.69598324
2300.	.68386186E+04	.32633122E+04	.33173982	.69519615
2350.	.69286623E+04	.33154832E+04	.33228166	.69439875
2400.	.70183406E+04	.33677600E+04	.33282350	.69359710
2450.	.71076755E+04	.34197097E+04	.33332018	.69278734
2500.	.71966876E+04	.34706677E+04	.33381686	.69219406
2550.	.72853980E+04	.35205983E+04	.33429097	.69176954
2600.	.73738239E+04	.35705866E+04	.33476508	.69134262
2650.	.74619846E+04	.36201743E+04	.33519403	.69090944
2700.	.75498971E+04	.36698261E+04	.33562299	.69047386

2750.	.76375783E+04	.37193106E+04	.33602937	.69003395
2800.	.77250442E+04	.37682607E+04	.33643574	.68970305
2850.	.78123109E+04	.38160189E+04	.33681954	.68955080
2900.	.78993920E+04	.38638105E+04	.33720335	.68939752
2950.	.79863019E+04	.39113910E+04	.33756457	.68924137
3000.	.80730545E+04	.39590132E+04	.33792580	.68908418
3050.	.81596632E+04	.40064267E+04	.33826444	.68892409
3100.	.82461413E+04	.40529966E+04	.33860309	.68891469
3150.	.83325000E+04	.40957224E+04	.33891916	.68951057
3200.	.84187511E+04	.41383837E+04	.33923524	.69010928
3250.	.85049069E+04	.41807198E+04	.33952873	.69070885
3300.	.85909787E+04	.42229972E+04	.33982223	.69131125
3350.	.86769769E+04	.42652207E+04	.34011572	.69191641
3400.	.87629130E+04	.43073942E+04	.34040922	.69252456
3450.	.88487955E+04	.43492460E+04	.34068013	.69313366
3500.	.89346348E+04	.43910531E+04	.34095105	.69374544
3550.	.90204411E+04	.44328178E+04	.34122197	.69436027
3600.	.91062241E+04	.44745450E+04	.34149289	.69497808
3650.	.91919927E+04	.45162384E+04	.34176381	.69559888
3700.	.92777556E+04	.45579024E+04	.34203473	.69622258
3750.	.93635214E+04	.45992492E+04	.34228307	.69684738
3800.	.94492976E+04	.46405680E+04	.34253141	.69747522
3850.	.95350944E+04	.46818631E+04	.34277975	.69810610
3900.	.96209193E+04	.47231373E+04	.34302810	.69874013
3950.	.97067817E+04	.47643946E+04	.34327644	.69937729
4000.	.97926856E+04	.48056379E+04	.34352478	.70001738
4050.	.98786413E+04	.48465646E+04	.34375055	.70065883
4100.	.99646564E+04	.48874781E+04	.34397631	.70130354
4150.	.10050736E+05	.49283828E+04	.34420208	.70195119
4200.	.10136890E+05	.49692802E+04	.34442784	.70260217
4250.	.10223127E+05	.50101731E+04	.34465361	.70325665
4300.	.10299461E+05	.50510649E+04	.34487937	.70323222
4350.	.10373174E+05	.50916386E+04	.34508256	.70303524
4400.	.10446743E+05	.51322122E+04	.34528575	.70283754
4450.	.10520174E+05	.51731113E+04	.34551152	.70264123
4500.	.10593472E+05	.52140193E+04	.34573728	.70244429
4550.	.10666642E+05	.52546099E+04	.34594047	.70224491
4600.	.10739688E+05	.52952111E+04	.34614366	.70204470
4650.	.10812617E+05	.53361569E+04	.34636943	.70184591
4700.	.10885430E+05	.53771211E+04	.34659519	.70164638
4750.	.10958135E+05	.54177673E+04	.34679838	.70144456
4800.	.11030736E+05	.54584333E+04	.34700157	.70124200
4850.	.11103234E+05	.54991199E+04	.34720476	.70103865
4900.	.11175637E+05	.55398288E+04	.34740795	.70083485
4950.	.11247947E+05	.55802149E+04	.34758856	.70062851
5000.	.11320169E+05	.56206228E+04	.34776917	.70042161

TABLE 2b

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W				
.180	.01000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.51505620E+03	.20735076E+03	.18377980	.45650628	.13550991
150.	.76837204E+03	.31285930E+03	.19268223	.47322112	.13942579
200.	.10241113E+04	.43443381E+03	.20629187	.48630153	.14585286
250.	.12724412E+04	.56900381E+03	.22084690	.49387136	.15190156
300.	.15098541E+04	.70915793E+03	.23429187	.49882617	.15700698
350.	.17331684E+04	.85208918E+03	.24623590	.50084931	.16097511
400.	.19461648E+04	.99574708E+03	.25678305	.50187657	.16425849
450.	.21467820E+04	.11380097E+04	.26617588	.50212364	.16698553
500.	.23383530E+04	.12795037E+04	.27460487	.50185327	.16888354
550.	.25211619E+04	.14208244E+04	.28224357	.50082313	.17063253
600.	.26975386E+04	.15583076E+04	.28918492	.50059916	.17196015
650.	.28650592E+04	.16935593E+04	.29554252	.49998060	.17303931
700.	.30276084E+04	.18261328E+04	.30137446	.49965908	.17392392
750.	.31843057E+04	.19560367E+04	.30672547	.49932992	.17458712
800.	.33365166E+04	.20851530E+04	.31164470	.49867213	.17523694
850.	.34844605E+04	.22135608E+04	.31618672	.49772299	.17580316
900.	.36270297E+04	.23358686E+04	.32036312	.49744514	.17672435
950.	.37664957E+04	.24582634E+04	.32422934	.49677687	.17749691
1000.	.39026912E+04	.25766194E+04	.32779249	.49649272	.17811904
1050.	.40362204E+04	.26926248E+04	.33109285	.49630520	.17862395
1100.	.41642339E+04	.28077807E+04	.33414561	.49557303	.17889305
1150.	.42905423E+04	.29218362E+04	.33701958	.49489314	.17909977
1200.	.44167623E+04	.30329463E+04	.33963519	.49459757	.17930969
1250.	.45430198E+04	.31426672E+04	.34212655	.49457594	.17952289
1300.	.46660442E+04	.32509615E+04	.34444897	.49438115	.17960910
1350.	.47846340E+04	.33575894E+04	.34653802	.49382378	.17952904
1400.	.49030365E+04	.34612393E+04	.34854752	.49373679	.17944699
1450.	.50213613E+04	.35626576E+04	.35041307	.49388709	.17936389
1500.	.51386371E+04	.36629466E+04	.35214450	.49401285	.17924306
1550.	.52510105E+04	.37620607E+04	.35376417	.49377706	.17895313
1600.	.53631963E+04	.38595298E+04	.35537400	.49382712	.17866011
1650.	.54752555E+04	.39552587E+04	.35677281	.49387975	.17836398
1700.	.55866887E+04	.40516540E+04	.35818148	.49388432	.17823420
1750.	.56929662E+04	.41470694E+04	.35944619	.49343640	.17835760
1800.	.57986609E+04	.42422743E+04	.36071089	.49304687	.17847142
1850.	.59041491E+04	.43369433E+04	.36188620	.49265804	.17858623
1900.	.60094735E+04	.44296143E+04	.36305164	.49253705	.17870204
1950.	.61124373E+04	.45207651E+04	.36407313	.49225607	.17875344
2000.	.62140446E+04	.46067075E+04	.36508475	.49246732	.17877140
2050.	.63154386E+04	.46921439E+04	.36603918	.49267412	.17878891
2100.	.64166720E+04	.47775305E+04	.36697390	.49288039	.17880658
2150.	.65140427E+04	.48619979E+04	.36781923	.49279949	.17872188
2200.	.66054804E+04	.49450258E+04	.36865468	.49244256	.17848278
2250.	.66965121E+04	.50270791E+04	.36944543	.49213383	.17824252
2300.	.67871618E+04	.51091310E+04	.37022633	.49182258	.17800104
2350.	.68774484E+04	.51902974E+04	.37093032	.49150441	.17775823
2400.	.69673881E+04	.52717276E+04	.37164417	.49118416	.17751388
2450.	.70570164E+04	.53525592E+04	.37230345	.49085893	.17726837
2500.	.71463528E+04	.54324066E+04	.37296274	.49063398	.17702162
2550.	.72350145E+04	.55111876E+04	.37358983	.49044380	.17687127
2600.	.73229482E+04	.55900647E+04	.37421690	.49022167	.17683128
2650.	.74106213E+04	.56684069E+04	.37479927	.48999576	.17679111
2700.	.74980403E+04	.57467127E+04	.37537181	.48976746	.17675046

2750.	.75852296E+04	.58246590E+04	.37591212	.48953590	.17670955
2800.	.76722074E+04	.59024190E+04	.37646229	.48934118	.17666842
2850.	.77589904E+04	.59790622E+04	.37698024	.48920481	.17662711
2900.	.78455918E+04	.60558004E+04	.37749821	.48906777	.17658560
2950.	.79320268E+04	.61324498E+04	.37800368	.48892944	.17654387
3000.	.80183060E+04	.62089029E+04	.37848944	.48878910	.17650188
3050.	.81044356E+04	.62852719E+04	.37896269	.48864691	.17645951
3100.	.81904359E+04	.63611007E+04	.37943595	.48855472	.17641687
3150.	.82763224E+04	.64338392E+04	.37987700	.48866382	.17637406
3200.	.83621040E+04	.65067760E+04	.38032792	.48877379	.17633100
3250.	.84477929E+04	.65793932E+04	.38075648	.48888274	.17628773
3300.	.85334012E+04	.66518950E+04	.38117518	.48899158	.17624424
3350.	.86189238E+04	.67244528E+04	.38159389	.48909981	.17620023
3400.	.87040189E+04	.67970716E+04	.38201259	.48918784	.17622322
3450.	.87888420E+04	.68692080E+04	.38239907	.48926237	.17628701
3500.	.88736126E+04	.69415823E+04	.38279543	.48933775	.17635114
3550.	.89583374E+04	.70138610E+04	.38318193	.48941274	.17641558
3600.	.90430276E+04	.70860470E+04	.38355857	.48948739	.17648033
3650.	.91276924E+04	.71584922E+04	.38394506	.48956292	.17654542
3700.	.92123394E+04	.72308156E+04	.38432170	.48964073	.17661081
3750.	.92969771E+04	.73026640E+04	.38467598	.48972863	.17667654
3800.	.93816134E+04	.73744225E+04	.38502041	.48981633	.17674256
3850.	.94662568E+04	.74464580E+04	.38537470	.48990483	.17680889
3900.	.95509175E+04	.75184912E+04	.38572899	.49000066	.17687559
3950.	.96356015E+04	.75851481E+04	.38607342	.49043862	.17694264
4000.	.97203161E+04	.76519815E+04	.38642771	.49087931	.17701000
4050.	.98050687E+04	.77183877E+04	.38675964	.49132084	.17707768
4100.	.98898672E+04	.77847897E+04	.38709157	.49176462	.17714571
4150.	.99747184E+04	.78510028E+04	.38741365	.49220998	.17721406
4200.	.10059630E+05	.79174115E+04	.38774559	.49265812	.17728275
4250.	.10144284E+05	.79838302E+04	.38807753	.49309272	.17740906
4300.	.10220014E+05	.80502636E+04	.38840946	.49309566	.17739769
4350.	.10293402E+05	.81160725E+04	.38870919	.49298966	.17734770
4400.	.10366648E+05	.81818950E+04	.38900892	.49288318	.17729751
4450.	.10439762E+05	.82483859E+04	.38934086	.49277833	.17724720
4500.	.10512749E+05	.83147083E+04	.38966293	.49267254	.17719679
4550.	.10585612E+05	.83806016E+04	.38996266	.49256528	.17714620
4600.	.10658355E+05	.84467298E+04	.39027225	.49245805	.17709546
4650.	.10730987E+05	.85131528E+04	.39059433	.49235138	.17704461
4700.	.10803509E+05	.85796184E+04	.39091640	.49224436	.17699360
4750.	.10875927E+05	.86456568E+04	.39121613	.49213588	.17694248
4800.	.10948246E+05	.87115303E+04	.39150600	.49202651	.17689120
4850.	.11020466E+05	.87776590E+04	.39180573	.49191722	.17683974
4900.	.11092596E+05	.88438359E+04	.39210546	.49180779	.17678814
4950.	.11164639E+05	.89092857E+04	.39237298	.49170076	.17673644
5000.	.11236597E+05	.89749389E+04	.39265035	.49159707	.17668452

TABLE 2c

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W				
.308	.02000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.52516768E+03	.28992457E+03	.20894580	.37848320	.16199032
150.	.78077433E+03	.44151324E+03	.22113362	.39105384	.16610081
200.	.10355346E+04	.61002588E+03	.23686595	.40208602	.17290480
250.	.12811006E+04	.79100040E+03	.25253846	.40901012	.17930088
300.	.15148415E+04	.97462232E+03	.26646493	.41416261	.18468255
350.	.17342486E+04	.11589317E+04	.27857705	.41686826	.18884432
400.	.19430701E+04	.13419881E+04	.28913715	.41864287	.19226990
450.	.21396188E+04	.15217775E+04	.29849484	.41968367	.19512005
500.	.23276480E+04	.16998933E+04	.30686856	.42019224	.19709208
550.	.25069321E+04	.18775182E+04	.31446993	.41989194	.19891993
600.	.26801429E+04	.20496175E+04	.32138099	.42024766	.20030543
650.	.28447948E+04	.22185369E+04	.32773411	.42024826	.20143583
700.	.30044820E+04	.23839002E+04	.33358680	.42042678	.20235030
750.	.31585170E+04	.25457043E+04	.33898332	.42058478	.20302769
800.	.33080997E+04	.27074617E+04	.34397234	.42028099	.20369745
850.	.34535465E+04	.28689069E+04	.34861783	.41966081	.20428246
900.	.35930762E+04	.30215166E+04	.35291135	.41966914	.20525150
950.	.37297040E+04	.31758033E+04	.35692770	.41918043	.20606409
1000.	.38633004E+04	.33245518E+04	.36065399	.41909850	.20671844
1050.	.39942797E+04	.34704867E+04	.36413010	.41908744	.20724206
1100.	.41202512E+04	.36160182E+04	.36739099	.41862153	.20751844
1150.	.42446338E+04	.37606617E+04	.37047489	.41815252	.20772928
1200.	.43688852E+04	.39018952E+04	.37331299	.41799213	.20794333
1250.	.44931285E+04	.40413349E+04	.37603806	.41807653	.20816068
1300.	.46144533E+04	.41793048E+04	.37860585	.41802622	.20824489
1350.	.47317637E+04	.43156123E+04	.38093267	.41766571	.20815346
1400.	.48488290E+04	.44477946E+04	.38319071	.41774100	.20805711
1450.	.49658145E+04	.45770873E+04	.38529628	.41801907	.20795944
1500.	.50818608E+04	.47053517E+04	.38726909	.41825727	.20782213
1550.	.51935326E+04	.48326308E+04	.38913128	.41819166	.20750755
1600.	.53050474E+04	.49583839E+04	.39097377	.41830853	.20718953
1650.	.54164650E+04	.50820437E+04	.39259741	.41843207	.20686801
1700.	.55268372E+04	.52066881E+04	.39424076	.41848183	.20672256
1750.	.56315490E+04	.53301764E+04	.39573165	.41810663	.20684999
1800.	.57356982E+04	.54531496E+04	.39722254	.41780416	.20696738
1850.	.58396244E+04	.55755484E+04	.39862494	.41750510	.20708574
1900.	.59433698E+04	.56965276E+04	.40000761	.41734074	.20720511
1950.	.60449767E+04	.58158040E+04	.40123783	.41704866	.20725701
2000.	.61453424E+04	.59263903E+04	.40244832	.41731687	.20727380
2050.	.62454450E+04	.60365435E+04	.40361216	.41757961	.20728843
2100.	.63453813E+04	.61463664E+04	.40473657	.41784163	.20730320
2150.	.64418492E+04	.62551392E+04	.40577249	.41788440	.20721075
2200.	.65329990E+04	.63626949E+04	.40678868	.41767679	.20695653
2250.	.66237709E+04	.64693676E+04	.40776062	.41749256	.20670100
2300.	.67141899E+04	.65759290E+04	.40871285	.41730614	.20644415
2350.	.68042558E+04	.66813577E+04	.40957899	.41711285	.20618526
2400.	.68939746E+04	.67872853E+04	.41046486	.41691695	.20592382
2450.	.69834059E+04	.68924101E+04	.41128674	.41671667	.20566105
2500.	.70725720E+04	.69960747E+04	.41210863	.41661474	.20539690
2550.	.71607899E+04	.70984558E+04	.41288869	.41651440	.20523596
2600.	.72479475E+04	.72009794E+04	.41366873	.41636686	.20519313
2650.	.73348501E+04	.73029202E+04	.41440453	.41621639	.20515006
2700.	.74214820E+04	.74046841E+04	.41512063	.41606234	.20510584

2750.	.75078794E+04	.75058952E+04	.41579488	.41590479	.20506106
2800.	.75940704E+04	.76072659E+04	.41648884	.41576639	.20501605
2850.	.76800704E+04	.77075005E+04	.41714095	.41565638	.20497080
2900.	.77658938E+04	.78078900E+04	.41779309	.41554590	.20492532
2950.	.78515552E+04	.79084051E+04	.41844280	.41543480	.20487965
3000.	.79370633E+04	.80083844E+04	.41905309	.41532108	.20483361
3050.	.80223984E+04	.81084960E+04	.41966096	.41520491	.20478641
3100.	.81076079E+04	.82082875E+04	.42026883	.41511396	.20473893
3150.	.81927043E+04	.83054136E+04	.42083486	.41512387	.20469121
3200.	.82777005E+04	.84030398E+04	.42142062	.41513472	.20464326
3250.	.83626073E+04	.85003862E+04	.42198424	.41514447	.20459506
3300.	.84474358E+04	.85974960E+04	.42252815	.41515336	.20454660
3350.	.85321443E+04	.86947570E+04	.42307206	.41515959	.20449667
3400.	.86161133E+04	.87921745E+04	.42361597	.41513315	.20451694
3450.	.86996491E+04	.88889294E+04	.42411803	.41508688	.20458088
3500.	.87831211E+04	.89862444E+04	.42463982	.41504133	.20464507
3550.	.88665385E+04	.90833388E+04	.42514190	.41499464	.20470960
3600.	.89499099E+04	.91802105E+04	.42562425	.41494675	.20477444
3650.	.90332466E+04	.92776744E+04	.42612632	.41489967	.20483960
3700.	.91165549E+04	.93747911E+04	.42660868	.41485739	.20490508
3750.	.91998427E+04	.94710818E+04	.42706890	.41483821	.20497088
3800.	.92831190E+04	.95671362E+04	.42750943	.41481806	.20503696
3850.	.93663925E+04	.96637984E+04	.42796965	.41479877	.20510337
3900.	.94496705E+04	.97604850E+04	.42842989	.41478688	.20517012
3950.	.95329624E+04	.98482084E+04	.42887041	.41514204	.20523723
4000.	.96162730E+04	.99363734E+04	.42933064	.41549974	.20530464
4050.	.96996079E+04	.10024064E+05	.42976874	.41585809	.20537233
4100.	.97829810E+04	.10111773E+05	.43020685	.41621834	.20544045
4150.	.98663929E+04	.10199061E+05	.43062524	.41657931	.20550883
4200.	.99498524E+04	.10286820E+05	.43106334	.41694290	.20557757
4250.	.10032799E+05	.10374614E+05	.43150145	.41728466	.20570797
4300.	.10107682E+05	.10462449E+05	.43193956	.41729309	.20569446
4350.	.10180457E+05	.10549355E+05	.43233582	.41721756	.20564043
4400.	.10253099E+05	.10636300E+05	.43273209	.41714175	.20558625
4450.	.10325614E+05	.10724273E+05	.43317020	.41706773	.20553192
4500.	.10398004E+05	.10811840E+05	.43358859	.41699246	.20547745
4550.	.10470276E+05	.10898935E+05	.43398486	.41691607	.20542280
4600.	.10542435E+05	.10986564E+05	.43440084	.41684029	.20536801
4650.	.10614485E+05	.11074319E+05	.43481924	.41676443	.20531307
4700.	.10686428E+05	.11162150E+05	.43523762	.41668812	.20525792
4750.	.10758272E+05	.11249511E+05	.43563389	.41661080	.20520265
4800.	.10830024E+05	.11336459E+05	.43601044	.41653249	.20514725
4850.	.10901680E+05	.11423974E+05	.43640671	.41645458	.20509166
4900.	.10973250E+05	.11511571E+05	.43680298	.41637655	.20503588
4950.	.11044737E+05	.11597922E+05	.43715740	.41630634	.20497996
5000.	.11116145E+05	.11684658E+05	.43753154	.41624359	.20492387

TABLE 2d

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W				
.403	.03000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.53266860E+03	.36061900E+03	.23411180	.34580540	.18846433
150.	.78920150E+03	.55365495E+03	.24958500	.35576824	.19258175
200.	.10420456E+04	.76365307E+03	.26744002	.36493625	.19957684
250.	.12842177E+04	.98445771E+03	.28423000	.37077589	.20616684
300.	.15138781E+04	.12045294E+04	.29863798	.37533454	.21170471
350.	.17290564E+04	.14228825E+04	.31091820	.37782114	.21596468
400.	.19334477E+04	.16378610E+04	.32149124	.37951113	.21945033
450.	.21257606E+04	.18478108E+04	.33081380	.38057518	.22236215
500.	.23100463E+04	.20550958E+04	.33913225	.38120421	.22436420
550.	.24856885E+04	.22614429E+04	.34669629	.38107483	.22623689
600.	.26556028E+04	.24608940E+04	.35357705	.38155247	.22765590
650.	.28172860E+04	.26563064E+04	.35992570	.38173819	.22882197
700.	.29739632E+04	.28475733E+04	.36579913	.38203515	.22974752
750.	.31251480E+04	.30347075E+04	.37124117	.38230488	.23042185
800.	.32719468E+04	.32221669E+04	.37629998	.38211350	.23109697
850.	.34147505E+04	.34097269E+04	.38104895	.38161032	.23168918
900.	.35512762E+04	.35865103E+04	.38545958	.38167279	.23269409
950.	.36850866E+04	.37661566E+04	.38962605	.38123897	.23353749
1000.	.38160813E+04	.39393148E+04	.39351549	.38120515	.23421752
1050.	.39444484E+04	.41093287E+04	.39716735	.38123163	.23475060
1100.	.40682514E+04	.42794340E+04	.40063637	.38086564	.23502918
1150.	.41905699E+04	.44487213E+04	.40393020	.38049083	.23524022
1200.	.43127218E+04	.46144032E+04	.40699079	.38038245	.23545439
1250.	.44348280E+04	.47779639E+04	.40994957	.38050848	.23567180
1300.	.45542910E+04	.49398660E+04	.41276273	.38054503	.23575227
1350.	.46700890E+04	.51001166E+04	.41532732	.38030806	.23564962
1400.	.47855646E+04	.52555816E+04	.41783388	.38046616	.23553740
1450.	.49009576E+04	.54077246E+04	.42017949	.38080374	.23542368
1500.	.50155044E+04	.55589614E+04	.42239369	.38109949	.23526898
1550.	.51261322E+04	.57093944E+04	.42449839	.38113233	.23493182
1600.	.52366263E+04	.58583728E+04	.42657353	.38130145	.23459089
1650.	.53470458E+04	.60050420E+04	.42842200	.38147809	.23424606
1700.	.54560785E+04	.61529965E+04	.43030004	.38156217	.23408459
1750.	.55591050E+04	.62996842E+04	.43201711	.38122996	.23421436
1800.	.56615884E+04	.64456992E+04	.43373419	.38097098	.23433378
1850.	.57638376E+04	.65911737E+04	.43536368	.38071603	.23445420
1900.	.58658926E+04	.67356029E+04	.43696358	.38054223	.23457559
1950.	.59660031E+04	.68782163E+04	.43840252	.38026002	.23462759
2000.	.60649734E+04	.70098302E+04	.43981189	.38052953	.23464332
2050.	.61636182E+04	.71411798E+04	.44118514	.38079095	.23465426
2100.	.62620930E+04	.72719153E+04	.44249924	.38105109	.23466526
2150.	.63574388E+04	.74015738E+04	.44372575	.38112964	.23456594
2200.	.64480037E+04	.75301402E+04	.44492267	.38098400	.23430030
2250.	.65382158E+04	.76579378E+04	.44607581	.38085186	.23403324
2300.	.66280996E+04	.77855170E+04	.44719937	.38071741	.23376473
2350.	.67176320E+04	.79117821E+04	.44822767	.38057525	.23349319
2400.	.68068025E+04	.80388125E+04	.44928553	.38042904	.23321747
2450.	.68957083E+04	.81648807E+04	.45027003	.38027875	.23294030
2500.	.69843711E+04	.82887479E+04	.45125452	.38024186	.23266166
2550.	.70718794E+04	.84110221E+04	.45218755	.38019348	.23249220
2600.	.71580809E+04	.85334864E+04	.45312057	.38008774	.23244776
2650.	.72440350E+04	.86553666E+04	.45400979	.37997960	.23240314
2700.	.73296936E+04	.87769149E+04	.45486946	.37986624	.23235616

2750.	.74151098E+04	.88977230E+04	.45567763	.37974879	.23230818
2800.	.75003253E+04	.90190210E+04	.45651539	.37964363	.23225993
2850.	.75853547E+04	.91391175E+04	.45730167	.37955473	.23221148
2900.	.76702119E+04	.92594252E+04	.45808796	.37946542	.23216275
2950.	.77549102E+04	.93801105E+04	.45888192	.37937591	.23211374
3000.	.78394584E+04	.94998812E+04	.45961674	.37928330	.23206433
3050.	.79238009E+04	.96200394E+04	.46035921	.37918708	.23201252
3100.	.80080216E+04	.97400482E+04	.46110170	.37910616	.23196045
3150.	.80921319E+04	.98576294E+04	.46179272	.37908582	.23190808
3200.	.81761444E+04	.99760200E+04	.46251332	.37906656	.23185544
3250.	.82600691E+04	.10094187E+05	.46321199	.37904617	.23180250
3300.	.83439175E+04	.10211965E+05	.46388112	.37902457	.23174927
3350.	.84276017E+04	.10329979E+05	.46455023	.37899828	.23169306
3400.	.85102820E+04	.10448237E+05	.46521935	.37892974	.23170897
3450.	.85924029E+04	.10565642E+05	.46583699	.37883728	.23177090
3500.	.86744520E+04	.10683940E+05	.46648421	.37874555	.23183311
3550.	.87564393E+04	.10801858E+05	.46710186	.37865235	.23189567
3600.	.88383715E+04	.10919390E+05	.46768993	.37855752	.23195850
3650.	.89202593E+04	.11037854E+05	.46830758	.37846351	.23202166
3700.	.90021099E+04	.11155679E+05	.46889565	.37837679	.23208509
3750.	.90839312E+04	.11272221E+05	.46946183	.37832463	.23214885
3800.	.91657307E+04	.11388338E+05	.46999843	.37827108	.23221288
3850.	.92475197E+04	.11505395E+05	.47056460	.37821868	.23227725
3900.	.93293023E+04	.11622507E+05	.471113079	.37817327	.23234194
3950.	.94110890E+04	.11728180E+05	.47166739	.37848188	.23240697
4000.	.94928836E+04	.11834584E+05	.47223357	.37879306	.23247225
4050.	.95746950E+04	.11940505E+05	.47277785	.37910487	.23253789
4100.	.96565305E+04	.12046472E+05	.47332212	.37941809	.23260383
4150.	.97383951E+04	.12151768E+05	.47383682	.37973158	.23267005
4200.	.98202991E+04	.12257838E+05	.47438110	.38004778	.23273665
4250.	.99014932E+04	.12363972E+05	.47492538	.38033654	.23286848
4300.	.99753795E+04	.12470178E+05	.47546965	.38034662	.23285281
4350.	.10047365E+05	.12575165E+05	.47596246	.38028673	.23279539
4400.	.10119223E+05	.12680217E+05	.47645526	.38022669	.23273788
4450.	.10190955E+05	.12786653E+05	.47699955	.38016835	.23268014
4500.	.10262569E+05	.12892426E+05	.47751425	.38010867	.23262226
4550.	.10334069E+05	.12997720E+05	.47800705	.38004802	.23256421
4600.	.10405459E+05	.13103876E+05	.47852944	.37998821	.23250598
4650.	.10476745E+05	.13209933E+05	.47904414	.37992798	.23244759
4700.	.10547928E+05	.13316100E+05	.47955884	.37986738	.23238897
4750.	.10619018E+05	.13421793E+05	.48005164	.37980596	.23233027
4800.	.10690016E+05	.13526804E+05	.48051489	.37974319	.23227136
4850.	.10760923E+05	.13632719E+05	.48100769	.37968116	.23221223
4900.	.10831750E+05	.13738753E+05	.48150050	.37961909	.23215295
4950.	.10902497E+05	.13842972E+05	.48194183	.37956945	.23209352
5000.	.10973168E+05	.13947745E+05	.48241273	.37953059	.23203386

TABLE 2e

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W				
.476	.04000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.53812488E+03	.42217080E+03	.25927780	.33049142	.21480264
150.	.79459251E+03	.65268712E+03	.27803639	.33848627	.21875408
200.	.10448969E+04	.89975772E+03	.29801410	.34608649	.22577786
250.	.12833031E+04	.11553821E+04	.31592156	.35089959	.23243089
300.	.15086812E+04	.14067494E+04	.33081104	.35478130	.23802445
350.	.17194965E+04	.16538766E+04	.34325936	.35687865	.24230331
400.	.19193761E+04	.18954848E+04	.35384534	.35830531	.24578104
450.	.21074263E+04	.21304235E+04	.36313276	.35921286	.24870435
500.	.22879075E+04	.23616790E+04	.37139594	.35979468	.25070086
550.	.24598999E+04	.25914804E+04	.37892265	.35968312	.25259145
600.	.26264906E+04	.28132504E+04	.38577312	.36016324	.25402480
650.	.27851904E+04	.30301968E+04	.39211729	.36041266	.25521498
700.	.29388147E+04	.32425986E+04	.39801147	.36072361	.25613676
750.	.30870770E+04	.34505008E+04	.40349902	.36100049	.25679408
800.	.32310397E+04	.36588590E+04	.40862762	.36084801	.25746298
850.	.33711509E+04	.38677268E+04	.41348006	.36039350	.25805332
900.	.35047539E+04	.40644062E+04	.41800781	.36044982	.25908537
950.	.36358124E+04	.42648529E+04	.42232441	.36003405	.25995302
1000.	.37642505E+04	.44582138E+04	.42637698	.36000734	.26065423
1050.	.38900131E+04	.46481848E+04	.43020460	.36003334	.26118966
1100.	.40116009E+04	.48387509E+04	.43388174	.35971273	.26146659
1150.	.41317969E+04	.50284817E+04	.43738549	.35939039	.26167483
1200.	.42517979E+04	.52145724E+04	.44066859	.35930725	.26188611
1250.	.43717222E+04	.53982631E+04	.44386108	.35945585	.26210051
1300.	.44892432E+04	.55800184E+04	.44691961	.35955630	.26217587
1350.	.46033945E+04	.57601350E+04	.44972197	.35940956	.26206214
1400.	.47171368E+04	.59351116E+04	.45247707	.35962191	.26193266
1450.	.48307918E+04	.61064805E+04	.45506270	.35999674	.26180142
1500.	.49436791E+04	.62770721E+04	.45751828	.36033097	.26162833
1550.	.50530438E+04	.64470287E+04	.45986550	.36043278	.26127002
1600.	.51622927E+04	.66155757E+04	.46217330	.36064492	.26090757
1650.	.52714851E+04	.67816812E+04	.46424660	.36086464	.26054087
1700.	.53790093E+04	.69493540E+04	.46635933	.36097615	.26036283
1750.	.54802989E+04	.71156860E+04	.46830259	.36067332	.26049380
1800.	.55810631E+04	.72812777E+04	.47024585	.36044109	.26061417
1850.	.56815838E+04	.74464023E+04	.47210242	.36021279	.26073550
1900.	.57819020E+04	.76107293E+04	.47391955	.36003859	.26085786
1950.	.58804456E+04	.77731733E+04	.47556723	.35976905	.26090976
2000.	.59779389E+04	.79230662E+04	.47717546	.36002800	.26092475
2050.	.60750364E+04	.80729138E+04	.47875812	.36027549	.26093123
2100.	.61719608E+04	.82218728E+04	.48026191	.36052097	.26093775
2150.	.62660557E+04	.83697889E+04	.48167901	.36060975	.26083238
2200.	.63558348E+04	.85166805E+04	.48305668	.36049589	.26055814
2250.	.64452846E+04	.86629274E+04	.48439100	.36039062	.26028243
2300.	.65344267E+04	.88088556E+04	.48568589	.36028275	.26000514
2350.	.66232144E+04	.89533316E+04	.48687634	.36016607	.25972355
2400.	.67116192E+04	.90988513E+04	.48810622	.36004358	.25943569
2450.	.67997788E+04	.92432805E+04	.48925331	.35991704	.25914630
2500.	.68877122E+04	.93846206E+04	.49040040	.35992257	.25885524
2550.	.69743399E+04	.95240130E+04	.49148641	.35991059	.25867896
2600.	.70594749E+04	.96636402E+04	.49257240	.35983359	.25863402
2650.	.71443696E+04	.98027092E+04	.49361505	.35975445	.25858885
2700.	.72289414E+04	.99412867E+04	.49461828	.35966838	.25853989

2750.	.73132623E+04	.10078947E+05	.49556040	.35957755	.25848929
2800.	.73973872E+04	.10217408E+05	.49654195	.35949557	.25843839
2850.	.74813296E+04	.10354578E+05	.49746238	.35942362	.25838723
2900.	.75651049E+04	.10492012E+05	.49838284	.35935132	.25833581
2950.	.76487260E+04	.10630086E+05	.49932104	.35927929	.25828410
3000.	.77321990E+04	.10766860E+05	.50018038	.35920353	.25823187
3050.	.78154292E+04	.10904288E+05	.50105748	.35912286	.25817560
3100.	.78985402E+04	.11041704E+05	.50193458	.35905240	.25811901
3150.	.79815437E+04	.11176819E+05	.50275057	.35902215	.25806213
3200.	.80644513E+04	.11313047E+05	.50360601	.35899312	.25800494
3250.	.81472734E+04	.11449113E+05	.50443976	.35896305	.25794742
3300.	.82300218E+04	.11584629E+05	.50523409	.35893143	.25788960
3350.	.83125547E+04	.11720454E+05	.50602841	.35889299	.25782678
3400.	.83938551E+04	.11856597E+05	.50682273	.35880417	.25783676
3450.	.84745042E+04	.11991707E+05	.50755595	.35868830	.25789507
3500.	.85550737E+04	.12128029E+05	.50832860	.35857340	.25795363
3550.	.86355733E+04	.12263801E+05	.50906183	.35845662	.25801248
3600.	.87160108E+04	.12399011E+05	.50975562	.35833788	.25807163
3650.	.87963959E+04	.12535483E+05	.51048884	.35822009	.25813107
3700.	.88767360E+04	.12670995E+05	.51118264	.35811183	.25819080
3750.	.89570388E+04	.12804706E+05	.51185475	.35804826	.25825079
3800.	.90373123E+04	.12937785E+05	.51248745	.35798315	.25831104
3850.	.91175654E+04	.13072129E+05	.51315957	.35791919	.25837161
3900.	.91978042E+04	.13206556E+05	.51383169	.35786189	.25843247
3950.	.92780381E+04	.13327806E+05	.51446438	.35813997	.25849365
4000.	.93582712E+04	.13450082E+05	.51513650	.35842064	.25855510
4050.	.94385122E+04	.13571886E+05	.51578695	.35870190	.25861684
4100.	.95187685E+04	.13693766E+05	.51643739	.35898436	.25867889
4150.	.95990442E+04	.13814724E+05	.51704841	.35926671	.25874120
4200.	.96793499E+04	.13936764E+05	.51769885	.35955177	.25880386
4250.	.97587983E+04	.14058898E+05	.51834930	.35980531	.25893504
4300.	.98316008E+04	.14181135E+05	.51899975	.35981593	.25891712
4350.	.99026857E+04	.14301883E+05	.51958909	.35976573	.25885688
4400.	.99736456E+04	.14422726E+05	.52017844	.35971531	.25879646
4450.	.10044485E+05	.14545290E+05	.52082889	.35966679	.25873582
4500.	.10115210E+05	.14666931E+05	.52143990	.35961674	.25867506
4550.	.10185824E+05	.14788110E+05	.52202925	.35956575	.25861409
4600.	.10256333E+05	.14910481E+05	.52265803	.35951588	.25855294
4650.	.10326740E+05	.15032507E+05	.52326905	.35946521	.25849158
4700.	.10397051E+05	.15154674E+05	.52388006	.35941437	.25843005
4750.	.10467269E+05	.15276388E+05	.52446941	.35936258	.25836834
4800.	.10537401E+05	.15397145E+05	.52501932	.35930941	.25830648
4850.	.10607446E+05	.15519148E+05	.52560866	.35925718	.25824437
4900.	.10677412E+05	.15641305E+05	.52619802	.35920487	.25818208
4950.	.10747303E+05	.15761067E+05	.52672625	.35916899	.25811963
5000.	.10817121E+05	.15881527E+05	.52729393	.35914696	.25805691

TABLE 2f

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X .534	W .05000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.54196753E+03	.47643719E+03	.28444382	.32356691	.24091860
150.	.79764713E+03	.74100921E+03	.30648777	.32991369	.24454739
200.	.10450051E+04	.10214847E+04	.32858818	.33615414	.25145880
250.	.12794455E+04	.13079544E+04	.34761311	.34003633	.25806370
300.	.15004744E+04	.15866521E+04	.36298409	.34326890	.26362901
350.	.17069109E+04	.18585809E+04	.37560051	.34494952	.26786095
400.	.19023057E+04	.21228829E+04	.38619943	.34607154	.27127459
450.	.20861533E+04	.23789943E+04	.39545172	.34677380	.27416861
500.	.22628554E+04	.26304113E+04	.40365963	.34725495	.27613069
550.	.24312567E+04	.28798214E+04	.41114900	.34710790	.27801776
600.	.25945629E+04	.31202462E+04	.41796919	.34755183	.27945055
650.	.27503177E+04	.33551239E+04	.42430888	.34782149	.28065620
700.	.29009117E+04	.35851918E+04	.43022380	.34811002	.28156245
750.	.30462528E+04	.38105317E+04	.43575687	.34835702	.28219155
800.	.31873919E+04	.40362968E+04	.44095526	.34821453	.28284497
850.	.33248226E+04	.42629660E+04	.44591117	.34778027	.28342636
900.	.34556090E+04	.44764038E+04	.45055604	.34781167	.28447917
950.	.35840080E+04	.46943103E+04	.45502277	.34740038	.28536645
1000.	.37099634E+04	.49047677E+04	.45923848	.34736770	.28608585
1050.	.38331710E+04	.51116472E+04	.46324185	.34738023	.28661808
1100.	.39525478E+04	.53196152E+04	.46712711	.34708190	.28689047
1150.	.40706161E+04	.55266747E+04	.47084080	.34679300	.28709368
1200.	.41884646E+04	.57301594E+04	.47434640	.34672387	.28729971
1250.	.43062113E+04	.59309977E+04	.47777259	.34688762	.28750883
1300.	.44217664E+04	.61295710E+04	.48107649	.34704024	.28757815
1350.	.45342011E+04	.63265174E+04	.48411663	.34696531	.28745334
1400.	.46461365E+04	.65181696E+04	.48712025	.34721819	.28730530
1450.	.47579795E+04	.67060267E+04	.48994591	.34762052	.28715524
1500.	.48691233E+04	.68932347E+04	.49264288	.34798451	.28696294
1550.	.49770879E+04	.70799659E+04	.49523261	.34813955	.28658426
1600.	.50849517E+04	.72653154E+04	.49777306	.34838844	.28620116
1650.	.51927735E+04	.74481464E+04	.50007119	.34864465	.28581354
1700.	.52986952E+04	.76328020E+04	.50241860	.34877925	.28561837
1750.	.53982381E+04	.78160698E+04	.50458805	.34849821	.28574963
1800.	.54972740E+04	.79985852E+04	.50675749	.34828468	.28587027
1850.	.55960600E+04	.81807278E+04	.50884116	.34807484	.28599183
1900.	.56946362E+04	.83622402E+04	.51087552	.34790320	.28611439
1950.	.57915875E+04	.85418285E+04	.51273192	.34764590	.28616613
2000.	.58875673E+04	.87078306E+04	.51453904	.34789183	.28618061
2050.	.59830806E+04	.88740298E+04	.51633109	.34812261	.28618215
2100.	.60784185E+04	.90390796E+04	.51802457	.34835074	.28618367
2150.	.61711874E+04	.92031563E+04	.51963227	.34844003	.28607275
2200.	.62600502E+04	.93662435E+04	.52119068	.34834454	.28579218
2250.	.63486020E+04	.95288126E+04	.52270618	.34825466	.28551003
2300.	.64368671E+04	.96909706E+04	.52417241	.34816204	.28522625
2350.	.65247696E+04	.98515693E+04	.52552501	.34805922	.28493655
2400.	.66122634E+04	.10013487E+05	.52692690	.34794866	.28463812
2450.	.66995288E+04	.10174213E+05	.52823660	.34783391	.28433806
2500.	.67865839E+04	.10330882E+05	.52954629	.34787061	.28403621
2550.	.68722192E+04	.10485228E+05	.53078527	.34788682	.28385434
2600.	.69562254E+04	.10639851E+05	.53202424	.34783198	.28380980
2650.	.70399984E+04	.10793957E+05	.53322031	.34777515	.28376508
2700.	.71234177E+04	.10947414E+05	.53436711	.34770952	.28371466

2750.	.72065784E+04	.11099789E+05	.53544316	.34763841	.28366190
2800.	.72895472E+04	.11253252E+05	.53656850	.34757431	.28360882
2850.	.73723387E+04	.11405325E+05	.53762310	.34751657	.28355548
2900.	.74549670E+04	.11557708E+05	.53867772	.34745856	.28350185
2950.	.75374449E+04	.11710998E+05	.53976016	.34740099	.28344789
3000.	.76197760E+04	.11862605E+05	.54074404	.34733925	.28339327
3050.	.77018264E+04	.12015132E+05	.54175574	.34727114	.28333263
3100.	.77837601E+04	.12167758E+05	.54276745	.34721035	.28327165
3150.	.78655890E+04	.12318145E+05	.54370843	.34717784	.28321037
3200.	.79473233E+04	.12469935E+05	.54469870	.34714668	.28314871
3250.	.80289746E+04	.12621625E+05	.54566752	.34711462	.28308672
3300.	.81105538E+04	.12772602E+05	.54658705	.34708069	.28302439
3350.	.81918635E+04	.12923952E+05	.54750658	.34703774	.28295457
3400.	.82717472E+04	.13075688E+05	.54842611	.34693716	.28295745
3450.	.83509074E+04	.13226215E+05	.54927491	.34680699	.28301074
3500.	.84299819E+04	.13378264E+05	.55017299	.34667788	.28306425
3550.	.85089801E+04	.13529587E+05	.55102179	.34654667	.28311806
3600.	.85879099E+04	.13680168E+05	.55182130	.34641326	.28317213
3650.	.86667801E+04	.13832325E+05	.55267010	.34628091	.28322645
3700.	.87455986E+04	.13983191E+05	.55346962	.34616012	.28328103
3750.	.88243727E+04	.14131708E+05	.55424768	.34609319	.28333587
3800.	.89031107E+04	.14279384E+05	.55497645	.34602449	.28339097
3850.	.89818203E+04	.14428628E+05	.55575452	.34595716	.28344629
3900.	.90605089E+04	.14577986E+05	.55653259	.34589609	.28350193
3950.	.91391841E+04	.14712938E+05	.55726137	.34615208	.28355786
4000.	.92178508E+04	.14849204E+05	.55803944	.34641077	.28361401
4050.	.92965182E+04	.14985024E+05	.55879606	.34666996	.28367045
4100.	.93751917E+04	.15120949E+05	.55955267	.34693017	.28372716
4150.	.94538772E+04	.15255706E+05	.56026000	.34719004	.28378410
4200.	.95325835E+04	.15391848E+05	.56101661	.34745259	.28384138
4250.	.96103195E+04	.15528115E+05	.56177323	.34768033	.28397025
4300.	.96819960E+04	.15664518E+05	.56252985	.34769098	.28395006
4350.	.97521143E+04	.15799177E+05	.56321573	.34764748	.28388733
4400.	.98221109E+04	.15933961E+05	.56390162	.34760372	.28382442
4450.	.98919919E+04	.16070785E+05	.56465824	.34756203	.28376130
4500.	.99617604E+04	.16206434E+05	.56536556	.34751853	.28369800
4550.	.10031423E+05	.16341647E+05	.56605145	.34747424	.28363451
4600.	.10100983E+05	.16478374E+05	.56678662	.34743124	.28357081
4650.	.10170445E+05	.16614505E+05	.56749395	.34738717	.28350690
4700.	.10239814E+05	.16750811E+05	.56820129	.34734291	.28344279
4750.	.10309095E+05	.16886691E+05	.56888717	.34729786	.28337856
4800.	.10378291E+05	.17021350E+05	.56952377	.34725115	.28331407
4850.	.10447404E+05	.17157588E+05	.57020965	.34720559	.28324936
4900.	.10516442E+05	.17294015E+05	.57089554	.34715997	.28318447
4950.	.10585407E+05	.17427466E+05	.57151069	.34713441	.28311937
5000.	.10654303E+05	.17561743E+05	.57217512	.34712539	.28305406

TABLE 2g

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X .582	W .06000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.54452906E+03	.52475128E+03	.30960982	.32127894	.26675556
150.	.79889363E+03	.82040149E+03	.33493916	.32615830	.26992091
200.	.10430503E+04	.11311769E+04	.35916226	.33118100	.27659799
250.	.12734408E+04	.14452485E+04	.37930466	.33421381	.28306047
300.	.14901407E+04	.17481219E+04	.39515716	.33684136	.28852752
350.	.16922579E+04	.20417475E+04	.40794166	.33811354	.29265804
400.	.18832619E+04	.23257072E+04	.41855353	.33892740	.29596127
450.	.20630188E+04	.26000683E+04	.42777067	.33941374	.29879275
500.	.22360209E+04	.28687475E+04	.43592331	.33977672	.30069699
550.	.24009307E+04	.31348539E+04	.44337535	.33957352	.30256361
600.	.25610311E+04	.33911622E+04	.45016525	.33996816	.30398418
650.	.27139126E+04	.36412555E+04	.45650046	.34024041	.30519892
700.	.28615401E+04	.38863667E+04	.46243614	.34049270	.30608033
750.	.30040065E+04	.41266187E+04	.46801472	.34069520	.30667212
800.	.31423755E+04	.43671561E+04	.47328290	.34054942	.30730274
850.	.32771755E+04	.46089730E+04	.47834228	.34012167	.30786962
900.	.34052654E+04	.48367805E+04	.48310427	.34012256	.30893863
950.	.35311112E+04	.50696052E+04	.48772112	.33971037	.30984228
1000.	.36546733E+04	.52947810E+04	.49209998	.33966741	.31057799
1050.	.37754022E+04	.55162290E+04	.49627910	.33966196	.31110286
1100.	.38926032E+04	.57392416E+04	.50037249	.33937436	.31136835
1150.	.40085709E+04	.59612355E+04	.50429611	.33910867	.31156483
1200.	.41242997E+04	.61797816E+04	.50802419	.33904822	.31176397
1250.	.42399041E+04	.63954603E+04	.51168409	.33922365	.31196598
1300.	.43535029E+04	.66085112E+04	.51523337	.33942136	.31202854
1350.	.44641966E+04	.68199473E+04	.51851127	.33940675	.31189273
1400.	.45742987E+04	.70260693E+04	.52176343	.33969230	.31172494
1450.	.46843039E+04	.72282750E+04	.52482912	.34011697	.31155492
1500.	.47936681E+04	.74299589E+04	.52776747	.34050551	.31134247
1550.	.49001552E+04	.76313100E+04	.53059971	.34070440	.31094403
1600.	.50065524E+04	.78312983E+04	.53337282	.34098546	.31054080
1650.	.51129188E+04	.80287240E+04	.53589578	.34127360	.31013276
1700.	.52171930E+04	.82282127E+04	.53847788	.34142809	.30991992
1750.	.53150088E+04	.84262844E+04	.54087351	.34116429	.31005088
1800.	.54123345E+04	.86236274E+04	.54326914	.34096490	.31017130
1850.	.55094051E+04	.88207009E+04	.54557990	.34076890	.31029254
1900.	.56062608E+04	.90172575E+04	.54783149	.34060091	.31041476
1950.	.57016258E+04	.92118678E+04	.54989662	.34035493	.31046645
2000.	.57960875E+04	.93922168E+04	.55190260	.34058793	.31048069
2050.	.58900116E+04	.95730145E+04	.55390406	.34080187	.31047681
2100.	.59837593E+04	.97524168E+04	.55578724	.34101259	.31047292
2150.	.60751678E+04	.99309385E+04	.55758553	.34109823	.31035688
2200.	.61630297E+04	.10108482E+05	.55932467	.34101406	.31007170
2250.	.62505981E+04	.10285635E+05	.56102137	.34093365	.30978486
2300.	.63378971E+04	.10462292E+05	.56265893	.34085020	.30949632
2350.	.64248240E+04	.10637307E+05	.56417369	.34075509	.30920007
2400.	.65113153E+04	.10813910E+05	.56574758	.34065021	.30889222
2450.	.65975908E+04	.10989234E+05	.56721988	.34054098	.30858261
2500.	.66836704E+04	.11159501E+05	.56869218	.34060223	.30827113
2550.	.67682470E+04	.11327063E+05	.57008413	.34064171	.30808465
2600.	.68510939E+04	.11494944E+05	.57147607	.34060506	.30804134
2650.	.69337142E+04	.11662354E+05	.57282556	.34056663	.30799783
2700.	.70159510E+04	.11828961E+05	.57411593	.34051758	.30794650

2750.	.70979200E+04	.11994334E+05	.57532591	.34046218	.30789196
2800.	.71797014E+04	.12161063E+05	.57659505	.34041269	.30783707
2850.	.72613103E+04	.12326297E+05	.57778381	.34036722	.30778192
2900.	.73427593E+04	.12491887E+05	.57897258	.34032137	.30772644
2950.	.74240627E+04	.12658639E+05	.58019928	.34027637	.30767065
3000.	.75052200E+04	.12823339E+05	.58130769	.34022668	.30761401
3050.	.75860587E+04	.12989219E+05	.58245400	.34016904	.30754907
3100.	.76667827E+04	.13155291E+05	.58360033	.34011690	.30748376
3150.	.77474036E+04	.13319143E+05	.58466629	.34008537	.30741808
3200.	.78279320E+04	.13484668E+05	.58579140	.34005547	.30735203
3250.	.79083794E+04	.13650161E+05	.58689527	.34002459	.30728563
3300.	.79887562E+04	.13814775E+05	.58794001	.33999174	.30721885
3350.	.80688090E+04	.13979823E+05	.58898475	.33994746	.30714170
3400.	.81472693E+04	.14145317E+05	.59002949	.33983890	.30713641
3450.	.82249522E+04	.14309435E+05	.59099386	.33969868	.30718356
3500.	.83025443E+04	.14475365E+05	.59201738	.33955969	.30723093
3550.	.83800539E+04	.14640397E+05	.59298176	.33941832	.30727853
3600.	.84574897E+04	.14804511E+05	.59388698	.33927449	.30732639
3650.	.85348604E+04	.14970498E+05	.59485136	.33913189	.30737448
3700.	.86121733E+04	.15134861E+05	.59575659	.33900271	.30742279
3750.	.86894356E+04	.15296316E+05	.59664060	.33893585	.30747135
3800.	.87666550E+04	.15456724E+05	.59746547	.33886699	.30752008
3850.	.88438404E+04	.15618983E+05	.59834947	.33879972	.30756908
3900.	.89209973E+04	.15781386E+05	.59923349	.33873832	.30761831
3950.	.89981342E+04	.15928515E+05	.60005836	.33897733	.30766782
4000.	.90752558E+04	.16077240E+05	.60094237	.33921902	.30771751
4050.	.91523707E+04	.16225548E+05	.60180515	.33946118	.30776748
4100.	.92294851E+04	.16373989E+05	.60266794	.33970431	.30781768
4150.	.93066036E+04	.16521033E+05	.60347158	.33994670	.30786809
4200.	.93837351E+04	.16669747E+05	.60433436	.34019193	.30791877
4250.	.94598110E+04	.16818618E+05	.60519716	.34039959	.30804405
4300.	.95303473E+04	.16967656E+05	.60605994	.34041011	.30802157
4350.	.95994648E+04	.17114715E+05	.60684236	.34037153	.30795665
4400.	.96684642E+04	.17261928E+05	.60762479	.34033269	.30789154
4450.	.97373518E+04	.17411480E+05	.60848758	.34029603	.30782624
4500.	.98061299E+04	.17559615E+05	.60929122	.34025739	.30776072
4550.	.98748052E+04	.17707346E+05	.61007365	.34021803	.30769499
4600.	.99433813E+04	.17856903E+05	.61091522	.34018009	.30762903
4650.	.10011863E+05	.18005613E+05	.61171886	.34014089	.30756290
4700.	.10080255E+05	.18154530E+05	.61252250	.34010150	.30749654
4750.	.10148561E+05	.18303059E+05	.61330492	.34006131	.30743001
4800.	.10216785E+05	.18450112E+05	.61402821	.34001930	.30736323
4850.	.10284930E+05	.18599061E+05	.61481063	.33997867	.30729624
4900.	.10353003E+05	.18748234E+05	.61559305	.33993796	.30722905
4950.	.10421004E+05	.18893863E+05	.61629511	.33992062	.30716162
5000.	.10488940E+05	.19040428E+05	.61705630	.33992232	.30709397

TABLE 2h

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W				
.621	.07000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.54606828E+03	.56811008E+03	.33477582	.32178702	.29227769
150.	.79873532E+03	.89223374E+03	.36339055	.32531033	.29485383
200.	.10395428E+04	.12306447E+04	.38973633	.32921572	.30119132
250.	.12658774E+04	.15696140E+04	.41099621	.33146417	.30743153
300.	.14783249E+04	.18940895E+04	.42733021	.33352852	.31274196
350.	.16762290E+04	.22069182E+04	.44028281	.33440968	.31672590
400.	.18629758E+04	.25081263E+04	.45090762	.33492331	.31988043
450.	.20387845E+04	.27984319E+04	.46008963	.33519615	.32262238
500.	.22081979E+04	.30821026E+04	.46818700	.33543643	.32444981
550.	.23697386E+04	.33626329E+04	.47560171	.33516941	.32628253
600.	.25267359E+04	.36326670E+04	.48236132	.33551096	.32768177
650.	.26768355E+04	.38958656E+04	.48869205	.33577857	.32890095
700.	.28215847E+04	.41539794E+04	.49464847	.33598926	.32975013
750.	.29612515E+04	.44071711E+04	.50027257	.33614143	.33029728
800.	.30969285E+04	.46604322E+04	.50561054	.33598591	.33089926
850.	.32291711E+04	.49153289E+04	.51077339	.33555732	.33144728
900.	.33546892E+04	.51556330E+04	.51565250	.33552694	.33252925
950.	.34780951E+04	.54013886E+04	.52041948	.33511167	.33344717
1000.	.35993619E+04	.56394072E+04	.52496147	.33505761	.33419808
1050.	.37177020E+04	.58735773E+04	.52931635	.33503268	.33471229
1100.	.38327842E+04	.61097651E+04	.53361786	.33474971	.33496932
1150.	.39466994E+04	.63448013E+04	.53775140	.33450111	.33515770
1200.	.40603600E+04	.65765554E+04	.54170199	.33444635	.33534865
1250.	.41738774E+04	.68052385E+04	.54559560	.33463178	.33554222
1300.	.42855545E+04	.70309158E+04	.54939025	.33486986	.33559755
1350.	.43945106E+04	.72549873E+04	.55290592	.33490767	.33545077
1400.	.45027852E+04	.74738158E+04	.55640661	.33522091	.33526222
1450.	.46109579E+04	.76886568E+04	.55971233	.33566459	.33507112
1500.	.47185401E+04	.79030943E+04	.56289206	.33607452	.33483770
1550.	.48235100E+04	.81173367E+04	.56596682	.33631062	.33441970
1600.	.49283996E+04	.83302255E+04	.56897259	.33662044	.33399666
1650.	.50332667E+04	.85405322E+04	.57172038	.33693697	.33356847
1700.	.51358832E+04	.87531235E+04	.57453717	.33710888	.33333739
1750.	.52320089E+04	.89642755E+04	.57715898	.33685944	.33346770
1800.	.53276594E+04	.91747472E+04	.57978080	.33667135	.33358744
1850.	.54230532E+04	.93850579E+04	.58231863	.33648645	.33370811
1900.	.55182281E+04	.95949282E+04	.58478746	.33632252	.33382974
1950.	.56120297E+04	.98028403E+04	.58706132	.33608682	.33388138
2000.	.57049903E+04	.99960761E+04	.58926617	.33630773	.33389574
2050.	.57973442E+04	.10190009E+05	.59147704	.33650567	.33388615
2100.	.58895206E+04	.10382322E+05	.59354991	.33669967	.33387653
2150.	.59795601E+04	.10573853E+05	.59553879	.33677978	.33375567
2200.	.60663709E+04	.10764408E+05	.59745868	.33670276	.33346721
2250.	.61529036E+04	.10954699E+05	.59933636	.33662814	.33317700
2300.	.62391821E+04	.11144413E+05	.60114545	.33655033	.33288503
2350.	.63250783E+04	.11332419E+05	.60282236	.33645937	.33258336
2400.	.64105095E+04	.11522270E+05	.60456826	.33635650	.33226691
2450.	.64957374E+04	.11710773E+05	.60620316	.33624906	.33194860
2500.	.65807814E+04	.11893211E+05	.60783806	.33633047	.33162830
2550.	.66642630E+04	.12072561E+05	.60938299	.33638997	.33143800
2600.	.67459424E+04	.12252270E+05	.61092790	.33636904	.33139658
2650.	.68274014E+04	.12431557E+05	.61243082	.33634652	.33135495
2700.	.69084477E+04	.12609899E+05	.61386475	.33631137	.33130310

2750.	.69892166E+04	.12786861E+05	.61520868	.33626913	.33124707
2800.	.70698032E+04	.12965429E+05	.61662160	.33623209	.33119072
2850.	.71502208E+04	.13142398E+05	.61794453	.33619738	.33113407
2900.	.72304827E+04	.13319762E+05	.61926746	.33616235	.33107708
2950.	.73106025E+04	.13498531E+05	.62063840	.33612847	.33101975
3000.	.73905775E+04	.13674900E+05	.62187133	.33608934	.33096141
3050.	.74701961E+04	.13852698E+05	.62315226	.33604063	.33089219
3100.	.75497019E+04	.14030768E+05	.62443320	.33599618	.33082257
3150.	.76291070E+04	.14206604E+05	.62562413	.33596723	.33075257
3200.	.77084207E+04	.14384374E+05	.62688409	.33593997	.33068216
3250.	.77876553E+04	.14562171E+05	.62812303	.33591183	.33061136
3300.	.78668204E+04	.14738934E+05	.62929298	.33588146	.33054015
3350.	.79456082E+04	.14916183E+05	.63046292	.33583734	.33045538
3400.	.80226606E+04	.15093930E+05	.63163287	.33572277	.33044102
3450.	.80988950E+04	.15270144E+05	.63271282	.33557473	.33048113
3500.	.81750339E+04	.15448445E+05	.63386177	.33542802	.33052141
3550.	.82510858E+04	.15625682E+05	.63494172	.33527871	.33056192
3600.	.83270588E+04	.15801828E+05	.63595267	.33512674	.33060262
3650.	.84029615E+04	.15980125E+05	.63703262	.33497613	.33064356
3700.	.84788009E+04	.16156474E+05	.63804357	.33484065	.33068465
3750.	.85545849E+04	.16329353E+05	.63903352	.33477545	.33072599
3800.	.86303203E+04	.16500987E+05	.63995448	.33470798	.33076747
3850.	.87060154E+04	.16674735E+05	.64094443	.33464231	.33080916
3900.	.87816765E+04	.16848655E+05	.64193439	.33458220	.33085105
3950.	.88573114E+04	.17006704E+05	.64285534	.33480737	.33089318
4000.	.89329249E+04	.17166610E+05	.64384530	.33503537	.33093548
4050.	.90085259E+04	.17326135E+05	.64481426	.33526380	.33097803
4100.	.90841192E+04	.17485819E+05	.64578321	.33549309	.33102075
4150.	.91597106E+04	.17643888E+05	.64668317	.33572138	.33106366
4200.	.92353081E+04	.17803901E+05	.64765212	.33595259	.33110681
4250.	.93097857E+04	.17964101E+05	.64862108	.33614391	.33122748
4300.	.93791847E+04	.18124497E+05	.64959004	.33615415	.33120264
4350.	.94472897E+04	.18282699E+05	.65046900	.33611935	.33113578
4400.	.95152799E+04	.18441080E+05	.65134796	.33608433	.33106870
4450.	.95831606E+04	.18602078E+05	.65231693	.33605159	.33100140
4500.	.96509356E+04	.18761432E+05	.65321688	.33601667	.33093389
4550.	.97186112E+04	.18920419E+05	.65409584	.33598109	.33086618
4600.	.97861897E+04	.19081524E+05	.65504381	.33594711	.33079822
4650.	.98536778E+04	.19241542E+05	.65594376	.33591166	.33073008
4700.	.99210779E+04	.19401797E+05	.65684372	.33587598	.33066169
4750.	.99883948E+04	.19561702E+05	.65772269	.33583958	.33059310
4800.	.10055633E+05	.19719893E+05	.65853265	.33580114	.33052429
4850.	.10122794E+05	.19880281E+05	.65941160	.33576425	.33045522
4900.	.10189885E+05	.20040925E+05	.66029057	.33572726	.33038591
4950.	.10256909E+05	.20197477E+05	.66107954	.33571681	.33031645
5000.	.10323870E+05	.20355059E+05	.66193750	.33572767	.33024672

TABLE 21

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W				
.654	.08000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.54678882E+03	.60728259E+03	.35994182	.32408661	.31746414
150.	.79748351E+03	.95758775E+03	.39184194	.32632777	.31933898
200.	.10348697E+04	.13213232E+04	.42031041	.32919008	.32524606
250.	.12571949E+04	.16829000E+04	.44268777	.33070580	.33119647
300.	.14655017E+04	.20268356E+04	.45950327	.33224343	.33630158
350.	.16593273E+04	.23568214E+04	.47262397	.33275234	.34010154
400.	.18419731E+04	.26733217E+04	.48326172	.33297716	.34307579
450.	.20139914E+04	.29777128E+04	.49240859	.33304308	.34570615
500.	.21799465E+04	.32745534E+04	.50045069	.33316167	.34744149
550.	.23382528E+04	.35676942E+04	.50782807	.33282852	.34922969
600.	.24922627E+04	.38497325E+04	.51455739	.33311719	.35060053
650.	.26396828E+04	.41243585E+04	.52088364	.33337729	.35182080
700.	.27816564E+04	.43938473E+04	.52686080	.33354497	.35263198
750.	.29186149E+04	.46584011E+04	.53253041	.33364475	.35312853
800.	.30516923E+04	.49227564E+04	.53793818	.33347613	.35369727
850.	.31814639E+04	.51890833E+04	.54320451	.33304254	.35422300
900.	.33045367E+04	.54403810E+04	.54820073	.33298208	.35531575
950.	.34256170E+04	.56974748E+04	.55311783	.33256308	.35624660
1000.	.35446898E+04	.59468255E+04	.55782297	.33249828	.35701214
1050.	.36607387E+04	.61922267E+04	.56235360	.33245383	.35751325
1100.	.37737695E+04	.64400753E+04	.56686324	.33217176	.35776047
1150.	.38856943E+04	.66866236E+04	.57120671	.33193652	.35793990
1200.	.39973504E+04	.69300784E+04	.57537979	.33188579	.35812165
1250.	.41088480E+04	.71702762E+04	.57950711	.33208017	.35830585
1300.	.42186517E+04	.74070804E+04	.58354713	.33235524	.35835359
1350.	.43258938E+04	.76422888E+04	.58730057	.33243964	.35819576
1400.	.44323677E+04	.78723857E+04	.59104980	.33277714	.35798553
1450.	.45387333E+04	.80984586E+04	.59459555	.33323756	.35777238
1500.	.46445536E+04	.83242415E+04	.59801666	.33366648	.35751726
1550.	.47479952E+04	.85499547E+04	.60133393	.33393517	.35707984
1600.	.48513639E+04	.87743200E+04	.60457235	.33427096	.35663700
1650.	.49547161E+04	.89961022E+04	.60754497	.33461300	.35618869
1700.	.50556869E+04	.92203704E+04	.61059645	.33480047	.35593880
1750.	.51501708E+04	.94431868E+04	.61344445	.33456328	.35606824
1800.	.52441946E+04	.96653874E+04	.61629245	.33438468	.35618728
1850.	.53379593E+04	.98875340E+04	.61905738	.33420901	.35630711
1900.	.54315027E+04	.10109289E+05	.62174343	.33404931	.35642788
1950.	.55237778E+04	.10329084E+05	.62422602	.33382299	.35647967
2000.	.56152672E+04	.10533972E+05	.62662974	.33403291	.35649440
2050.	.57060833E+04	.10739807E+05	.62905002	.33421567	.35647883
2100.	.57967212E+04	.10943807E+05	.63131258	.33439396	.35646315
2150.	.58854019E+04	.11147137E+05	.63349205	.33446752	.35633775
2200.	.59711348E+04	.11349480E+05	.63559267	.33439501	.35604703
2250.	.60566041E+04	.11551680E+05	.63765175	.33432402	.35575451
2300.	.61418328E+04	.11753232E+05	.63963197	.33424955	.35546014
2350.	.62266678E+04	.11953023E+05	.64147103	.33416040	.35515394
2400.	.63110085E+04	.12154905E+05	.64338894	.33405715	.35482943
2450.	.63951572E+04	.12355378E+05	.64518645	.33394920	.35450301
2500.	.64791318E+04	.12548786E+05	.64698396	.33404779	.35417448
2550.	.65615036E+04	.12738734E+05	.64868185	.33412489	.35398093
2600.	.66420222E+04	.12929076E+05	.65037974	.33411796	.35394195
2650.	.67223269E+04	.13119052E+05	.65203608	.33410947	.35390279
2700.	.68021901E+04	.13307941E+05	.65361358	.33408652	.35385073

2750.	.68817678E+04	.13495317E+05	.65509144	.33405566	.35379352
2800.	.69611664E+04	.13684532E+05	.65664816	.33402947	.35373593
2850.	.70404005E+04	.13872043E+05	.65810524	.33400447	.35367805
2900.	.71194828E+04	.14059986E+05	.65956234	.33397918	.35361978
2950.	.71984261E+04	.14249569E+05	.66107752	.33395519	.35356119
3000.	.72772258E+04	.14436417E+05	.66243498	.33392557	.35350139
3050.	.73556322E+04	.14624930E+05	.66385052	.33388468	.35342790
3100.	.74339281E+04	.14813787E+05	.66526608	.33384712	.35335399
3150.	.75121248E+04	.15000380E+05	.66658199	.33382134	.35327968
3200.	.75902322E+04	.15189147E+05	.66797679	.33379747	.35320489
3250.	.76682611E+04	.15378000E+05	.66935079	.33377270	.35312972
3300.	.77462225E+04	.15565668E+05	.67064595	.33374556	.35305413
3350.	.78237548E+04	.15753870E+05	.67194110	.33370228	.35296140
3400.	.78994278E+04	.15942622E+05	.67323625	.33358258	.35293723
3450.	.79742535E+04	.16129690E+05	.67443177	.33342797	.35296958
3500.	.80489795E+04	.16319101E+05	.67570616	.33327479	.35300200
3550.	.81236144E+04	.16507288E+05	.67690169	.33311882	.35303467
3600.	.81981660E+04	.16694219E+05	.67801835	.33295998	.35306748
3650.	.82726428E+04	.16883563E+05	.67921388	.33280260	.35310047
3700.	.83470521E+04	.17070642E+05	.68033055	.33266203	.35313361
3750.	.84214007E+04	.17253700E+05	.68142645	.33259910	.35316694
3800.	.84956956E+04	.17435318E+05	.68244349	.33253377	.35320037
3850.	.85699458E+04	.17619299E+05	.68353939	.33247040	.35323399
3900.	.86441570E+04	.17803477E+05	.68463529	.33241230	.35326780
3950.	.87183364E+04	.17971380E+05	.68565233	.33262596	.35330180
4000.	.87924882E+04	.18141392E+05	.68674823	.33284246	.35333589
4050.	.88666223E+04	.18311061E+05	.68782336	.33305934	.35337023
4100.	.89407437E+04	.18480913E+05	.68889848	.33327707	.35340473
4150.	.90148566E+04	.18648943E+05	.68989475	.33349354	.35343936
4200.	.90889695E+04	.18819179E+05	.69096988	.33371296	.35347417
4250.	.91619148E+04	.18989626E+05	.69204501	.33389058	.35358940
4300.	.92301946E+04	.19160298E+05	.69312014	.33390053	.35356225
4350.	.92972896E+04	.19328576E+05	.69409563	.33386877	.35349360
4400.	.93642723E+04	.19497060E+05	.69507114	.33383676	.35342473
4450.	.94311485E+04	.19668422E+05	.69614627	.33380709	.35335560
4500.	.94979224E+04	.19837920E+05	.69714253	.33377519	.35328629
4550.	.95645991E+04	.20007091E+05	.69811804	.33374262	.35321673
4600.	.96311819E+04	.20178662E+05	.69917240	.33371174	.35314693
4650.	.96976767E+04	.20348910E+05	.70016867	.33367926	.35307695
4700.	.97640864E+04	.20519424E+05	.70116494	.33364654	.35300669
4750.	.98304157E+04	.20689631E+05	.70214044	.33361312	.35293626
4800.	.98966683E+04	.20857894E+05	.70303709	.33357753	.35286557
4850.	.99628468E+04	.21028641E+05	.70401258	.33354363	.35279464
4900.	.10028957E+05	.21199673E+05	.70498809	.33350963	.35272345
4950.	.10095002E+05	.21366089E+05	.70586396	.33350502	.35265206
5000.	.10160986E+05	.21533612E+05	.70681869	.33352392	.35258040

TABLE 2j

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

X	W				
.683	.09000000				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.54685184E+03	.64287579E+03	.38510782	.32758569	.34230437
150.	.79538022E+03	.10173355E+04	.42029332	.32859660	.34337821
200.	.10293268E+04	.14043731E+04	.45088448	.33047305	.34877664
250.	.12477234E+04	.17865927E+04	.47437931	.33129776	.35437996
300.	.14520229E+04	.21481780E+04	.49167632	.33233990	.35923925
350.	.16419201E+04	.24936135E+04	.50496512	.33249434	.36282423
400.	.18206328E+04	.28237900E+04	.51561581	.33244223	.36559216
450.	.19890256E+04	.31407370E+04	.52472755	.33230942	.36809302
500.	.21516610E+04	.34492591E+04	.53271438	.33230924	.36972381
550.	.23068729E+04	.37535339E+04	.54005442	.33191038	.37145918
600.	.24580173E+04	.40461776E+04	.54675346	.33214790	.37279615
650.	.26028660E+04	.43308708E+04	.55307523	.33239982	.37401525
700.	.27421732E+04	.46104116E+04	.55907313	.33252460	.37478377
750.	.28765245E+04	.48850403E+04	.56478827	.33257191	.37522507
800.	.30071022E+04	.51591680E+04	.57026582	.33238840	.37575683
850.	.31344969E+04	.54355840E+04	.57563562	.33194740	.37625763
900.	.32552472E+04	.56966460E+04	.58074896	.33185867	.37735974
950.	.33741154E+04	.59637781E+04	.58581619	.33143610	.37830281
1000.	.34910957E+04	.62232185E+04	.59068447	.33136165	.37908292
1050.	.36049531E+04	.64786247E+04	.59539085	.33129809	.37956902
1100.	.37160072E+04	.67368842E+04	.60010861	.33101472	.37980550
1150.	.38260099E+04	.69936860E+04	.60466202	.33079020	.37997523
1200.	.39357327E+04	.72475967E+04	.60905759	.33074243	.38014708
1250.	.40452833E+04	.74980766E+04	.61341862	.33094513	.38032117
1300.	.41532714E+04	.77447742E+04	.61770401	.33125462	.38036114
1350.	.42588357E+04	.79898837E+04	.62169522	.33138125	.38019218
1400.	.43635481E+04	.82300571E+04	.62569297	.33174026	.37995939
1450.	.44681478E+04	.84661943E+04	.62947876	.33221586	.37972347
1500.	.45722406E+04	.87021502E+04	.63314125	.33266193	.37944587
1550.	.46741613E+04	.89381511E+04	.63670104	.33295960	.37898884
1600.	.47760155E+04	.91728092E+04	.64017211	.33331903	.37852622
1650.	.48778581E+04	.94048906E+04	.64336956	.33368441	.37805783
1700.	.49772103E+04	.96396465E+04	.64665573	.33388584	.37778865
1750.	.50701068E+04	.98729424E+04	.64972991	.33365939	.37791703
1800.	.51625574E+04	.10105696E+05	.65280409	.33348900	.37803516
1850.	.52547479E+04	.10338502E+05	.65579611	.33332132	.37815414
1900.	.53467154E+04	.10570946E+05	.65869940	.33316584	.37827397
1950.	.54375086E+04	.10801436E+05	.66139072	.33294810	.37832604
2000.	.55275651E+04	.11016926E+05	.66399331	.33314793	.37834139
2050.	.56168851E+04	.11233602E+05	.66662300	.33331648	.37831966
2100.	.57060263E+04	.11448246E+05	.66907524	.33347998	.37829772
2150.	.57933704E+04	.11662331E+05	.67144531	.33354663	.37816795
2200.	.58780166E+04	.11875415E+05	.67372667	.33347689	.37787575
2250.	.59624115E+04	.12088474E+05	.67596693	.33340791	.37758166
2300.	.60465786E+04	.12300817E+05	.67811849	.33333531	.37728570
2350.	.61303403E+04	.12511357E+05	.68011971	.33324644	.37697560
2400.	.62135788E+04	.12724222E+05	.68220962	.33314124	.37664344
2450.	.62966344E+04	.12935629E+05	.68416974	.33303109	.37630925
2500.	.63795253E+04	.13138988E+05	.68612985	.33314458	.37597290
2550.	.64607870E+04	.13338526E+05	.68798071	.33323748	.37577652
2600.	.65401625E+04	.13538490E+05	.68983157	.33324325	.37574047
2650.	.66193298E+04	.13738138E+05	.69164134	.33324764	.37570424
2700.	.66980287E+04	.13936572E+05	.69336240	.33323554	.37565232

2750.	.67764330E+04	.14133368E+05	.69497419	.33321470	.37559408
2800.	.68546631E+04	.14332220E+05	.69667471	.33319823	.37553549
2850.	.69327317E+04	.14529266E+05	.69826596	.33318204	.37547658
2900.	.70106521E+04	.14726777E+05	.69985721	.33316559	.37541729
2950.	.70884371E+04	.14926149E+05	.70151663	.33315066	.37535764
3000.	.71660794E+04	.15122473E+05	.70299863	.33312964	.37529661
3050.	.72432933E+04	.15320683E+05	.70454879	.33309569	.37521883
3100.	.73203981E+04	.15519301E+05	.70609895	.33306431	.37514060
3150.	.73974056E+04	.15715610E+05	.70753985	.33304206	.37506195
3200.	.74743250E+04	.15914320E+05	.70906948	.33302181	.37498281
3250.	.75511675E+04	.16113174E+05	.71057855	.33300066	.37490326
3300.	.76279431E+04	.16310700E+05	.71199891	.33297694	.37482323
3350.	.77042407E+04	.16508801E+05	.71341927	.33293476	.37472230
3400.	.77785716E+04	.16707493E+05	.71483963	.33281062	.37468769
3450.	.78520349E+04	.16904368E+05	.71615073	.33265014	.37471162
3500.	.79253944E+04	.17103823E+05	.71755055	.33249122	.37473560
3550.	.79986595E+04	.17301902E+05	.71886165	.33232933	.37475978
3600.	.80718378E+04	.17498570E+05	.72008403	.33216436	.37478409
3650.	.81449368E+04	.17697891E+05	.72139514	.33200101	.37480852
3700.	.82179644E+04	.17894645E+05	.72261753	.33185598	.37483308
3750.	.82909273E+04	.18086837E+05	.72381937	.33179564	.37485779
3800.	.83638323E+04	.18277402E+05	.72493250	.33173280	.37488256
3850.	.84366880E+04	.18470564E+05	.72613434	.33167199	.37490749
3900.	.85094994E+04	.18663944E+05	.72733619	.33161623	.37493255
3950.	.85822749E+04	.18840797E+05	.72844932	.33181994	.37495779
4000.	.86550184E+04	.19019996E+05	.72965116	.33202657	.37498310
4050.	.87277387E+04	.19198885E+05	.73083247	.33223360	.37500859
4100.	.88004404E+04	.19377988E+05	.73201376	.33244129	.37503419
4150.	.88731288E+04	.19555069E+05	.73310634	.33264760	.37505986
4200.	.89458125E+04	.19734603E+05	.73428763	.33285693	.37508577
4250.	.90172946E+04	.19914376E+05	.73546893	.33302273	.37519494
4300.	.90844792E+04	.20094401E+05	.73665023	.33303225	.37516540
4350.	.91505764E+04	.20271843E+05	.73772226	.33300296	.37509508
4400.	.92165645E+04	.20449516E+05	.73879431	.33297342	.37502455
4450.	.92824488E+04	.20630308E+05	.73997562	.33294635	.37495374
4500.	.93482338E+04	.20809036E+05	.74106819	.33291684	.37488275
4550.	.94139235E+04	.20987476E+05	.74214023	.33288668	.37481148
4600.	.94795228E+04	.21168576E+05	.74330100	.33285841	.37474001
4650.	.95450353E+04	.21348132E+05	.74439358	.33282831	.37466828
4700.	.96104658E+04	.21527981E+05	.74548616	.33279800	.37459631
4750.	.96758179E+04	.21707565E+05	.74655820	.33276699	.37452414
4800.	.97410958E+04	.21884990E+05	.74754153	.33273369	.37445171
4850.	.98063012E+04	.22065170E+05	.74861357	.33270217	.37437901
4900.	.98714418E+04	.22245663E+05	.74968561	.33267058	.37430609
4950.	.99365188E+04	.22421034E+05	.75064838	.33267117	.37423293
5000.	.10001536E+05	.22597584E+05	.75169988	.33269722	.37415948

TABLE 2k

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
•1

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.54638615E+03	.67537859E+03	.41027384	.33191448	.36679537
150.	.79261527E+03	.10721916E+04	.44874471	.33173352	.36697945
200.	.10231421E+04	.14807493E+04	.48145857	.33266977	.37180176
250.	.12377133E+04	.18819075E+04	.50607087	.33283816	.37700950
300.	.14381506E+04	.22595929E+04	.52384938	.33341151	.38158922
350.	.16242771E+04	.26190322E+04	.53730627	.33322777	.38493357
400.	.17992283E+04	.29615295E+04	.54796991	.33291005	.38747366
450.	.19641619E+04	.32897564E+04	.55704651	.33258678	.38983057
500.	.21236197E+04	.36087234E+04	.56497807	.33247172	.39134674
550.	.22758775E+04	.39229124E+04	.57228078	.33200866	.39302277
600.	.24242801E+04	.42250054E+04	.57894953	.33219739	.39432170
650.	.25666663E+04	.45186438E+04	.58526682	.33244147	.39553808
700.	.27034195E+04	.48071443E+04	.59128547	.33252436	.39626049
750.	.28352682E+04	.50907812E+04	.59704612	.33251984	.39664256
800.	.29634492E+04	.53735920E+04	.60259347	.33232055	.39713445
850.	.30885637E+04	.56589882E+04	.60806673	.33187077	.39760829
900.	.32071104E+04	.59287936E+04	.61329721	.33175582	.39871901
950.	.33238761E+04	.62048864E+04	.61851455	.33133011	.39967395
1000.	.34388624E+04	.64733809E+04	.62354597	.33124710	.40046879
1050.	.35506288E+04	.67377697E+04	.62842810	.33116520	.40093855
1100.	.36597836E+04	.70053920E+04	.63335399	.33087919	.40116358
1150.	.37679365E+04	.72713959E+04	.63811733	.33066353	.40132312
1200.	.38758006E+04	.75347190E+04	.64273540	.33061806	.40148461
1250.	.39834808E+04	.77944465E+04	.64733013	.33082876	.40164808
1300.	.40897153E+04	.80500073E+04	.65186089	.33117055	.40168009
1350.	.41936467E+04	.83039864E+04	.65608988	.33133593	.40150002
1400.	.42966464E+04	.85532327E+04	.66033616	.33171445	.40124389
1450.	.43995285E+04	.87984502E+04	.66436197	.33220389	.40098435
1500.	.45019381E+04	.90435882E+04	.66826585	.33266567	.40068369
1550.	.46023592E+04	.92888794E+04	.67206815	.33298946	.40020697
1600.	.47027181E+04	.95328278E+04	.67577188	.33337060	.39972435
1650.	.48030695E+04	.97742165E+04	.67919416	.33375736	.39923568
1700.	.49008400E+04	.10018452E+05	.68271501	.33397145	.39894666
1750.	.49922075E+04	.10261224E+05	.68601538	.33375463	.39907393
1800.	.50831422E+04	.10503534E+05	.68931575	.33359152	.39919119
1850.	.51738162E+04	.10745998E+05	.69253486	.33343092	.39930923
1900.	.52642666E+04	.10988120E+05	.69565538	.33327951	.39942815
1950.	.53536268E+04	.11228292E+05	.69855542	.33306980	.39948068
2000.	.54422944E+04	.11453477E+05	.70135689	.33326042	.39949691
2050.	.55301652E+04	.11680077E+05	.70419597	.33341561	.39946881
2100.	.56178573E+04	.11904463E+05	.70683791	.33356519	.39944047
2150.	.57038949E+04	.12128398E+05	.70939858	.33362484	.39930647
2200.	.57874573E+04	.12351319E+05	.71186068	.33355653	.39901334
2250.	.58707801E+04	.12574324E+05	.71428213	.33348856	.39871829
2300.	.59538860E+04	.12796553E+05	.71660501	.33341670	.39842131
2350.	.60365747E+04	.13016947E+05	.71876838	.33332693	.39810776
2400.	.61187124E+04	.13239887E+05	.72103031	.33321862	.39776818
2450.	.62006752E+04	.13461321E+05	.72315303	.33310527	.39742649
2500.	.62824816E+04	.13673757E+05	.72527574	.33323185	.39708255
2550.	.63626434E+04	.13882020E+05	.72727958	.33333913	.39688364
2600.	.64409000E+04	.14090740E+05	.72928341	.33335662	.39685092
2650.	.65189546E+04	.14299198E+05	.73124660	.33337277	.39681807
2700.	.65965144E+04	.14506317E+05	.73311123	.33337053	.39676649

2750.	•66737716E+04	•14711680E+05	•73485696	•33335876	•39670742
2800.	•67508583E+04	•14919300E+05	•73670126	•33335114	•39664800
2850.	•68277870E+04	•15125017E+05	•73842667	•33334309	•39658822
2900.	•69045712E+04	•15331231E+05	•74015209	•33333479	•39652809
2950.	•69812230E+04	•15539515E+05	•74195576	•33332820	•39646758
3000.	•70577323E+04	•15744454E+05	•74356229	•33331505	•39640543
3050.	•71337800E+04	•15951492E+05	•74524705	•33328722	•39632335
3100.	•72097208E+04	•16158988E+05	•74693183	•33326158	•39624083
3150.	•72855650E+04	•16364129E+05	•74849771	•33324283	•39615783
3200.	•73613229E+04	•16571882E+05	•75016218	•33322624	•39607431
3250.	•74370052E+04	•16779831E+05	•75180631	•33320880	•39599035
3300.	•75126210E+04	•16986314E+05	•75335188	•33318865	•39590585
3350.	•75877118E+04	•17193414E+05	•75489744	•33314757	•39579651
3400.	•76607440E+04	•17401146E+05	•75644301	•33301922	•39575091
3450.	•77328936E+04	•17606930E+05	•75786969	•33285334	•39576590
3500.	•78049372E+04	•17815514E+05	•75939494	•33268923	•39578096
3550.	•78768828E+04	•18022584E+05	•76082162	•33252183	•39579616
3600.	•79487382E+04	•18228088E+05	•76214973	•33235129	•39581142
3650.	•80205110E+04	•18436478E+05	•76357640	•33218236	•39582678
3700.	•80922088E+04	•18642004E+05	•76490451	•33203334	•39584223
3750.	•81638384E+04	•18842442E+05	•76621230	•33197572	•39585781
3800.	•82354062E+04	•19041084E+05	•76742151	•33191533	•39587342
3850.	•83069202E+04	•19242532E+05	•76872930	•33185720	•39588912
3900.	•83783865E+04	•19444222E+05	•77003710	•33180388	•39590495
3950.	•84498123E+04	•19629247E+05	•77124631	•33199880	•39592089
4000.	•85212019E+04	•19816836E+05	•77255410	•33219679	•39593687
4050.	•85925635E+04	•20004153E+05	•77384157	•33239511	•39595299
4100.	•86639023E+04	•20191711E+05	•77512903	•33259400	•39596920
4150.	•87352228E+04	•20377060E+05	•77631793	•33279138	•39598543
4200.	•88065342E+04	•20565093E+05	•77760539	•33299185	•39600184
4250.	•88766200E+04	•20753390E+05	•77889286	•33314730	•39610447
4300.	•89427399E+04	•20941966E+05	•78018033	•33315638	•39607256
4350.	•90078595E+04	•21127783E+05	•78134891	•33312918	•39600068
4400.	•90728723E+04	•21313857E+05	•78251749	•33310166	•39592855
4450.	•91377838E+04	•21503276E+05	•78380496	•33307669	•39585615
4500.	•92025986E+04	•21690437E+05	•78499386	•33304922	•39578356
4550.	•92673206E+04	•21877353E+05	•78616244	•33302106	•39571072
4600.	•93319538E+04	•22067171E+05	•78742959	•33299494	•39563760
4650.	•93965031E+04	•22255239E+05	•78861849	•33296681	•39556427
4700.	•94609725E+04	•22443627E+05	•78980739	•33293842	•39549067
4750.	•95253653E+04	•22631790E+05	•79097597	•33290937	•39541684
4800.	•95896867E+04	•22817592E+05	•79204598	•33287793	•39534280
4850.	•96539373E+04	•23006397E+05	•79321455	•33284844	•39526844
4900.	•97181249E+04	•23195550E+05	•79438313	•33281876	•39519385
4950.	•97822507E+04	•23379097E+05	•79543282	•33282394	•39511901
5000.	•98463193E+04	•23563878E+05	•79658108	•33285656	•39504390

TABLE 21

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W

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TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.52812739E+03	.89319450E+03	.66193388	.39138777	.59408154
150.	.75039050E+03	.14466871E+04	.73325858	.38033813	.58216998
200.	.95093349E+03	.20053554E+04	.78719934	.37328755	.57904037
250.	.11340441E+04	.25358886E+04	.82298638	.36803779	.57882245
300.	.13037261E+04	.30215870E+04	.84557995	.36484291	.57964392
350.	.14602214E+04	.34729786E+04	.86071780	.36189065	.57986591
400.	.16059700E+04	.38946518E+04	.87151086	.35936979	.57953084
450.	.17442207E+04	.42946918E+04	.88023610	.35749387	.58007380
500.	.18788932E+04	.46790407E+04	.88761494	.35642639	.58019005
550.	.20082789E+04	.50542882E+04	.89454434	.35543966	.58113367
600.	.21352770E+04	.54147859E+04	.90091020	.35526664	.58197628
650.	.22583630E+04	.57631564E+04	.90718271	.35549057	.58317091
700.	.23750973E+04	.61071370E+04	.91340881	.35522941	.58335367
750.	.24872180E+04	.64472446E+04	.91962462	.35477278	.58304516
800.	.25965619E+04	.67831474E+04	.92586987	.35441930	.58307171
850.	.27037192E+04	.71238269E+04	.93237785	.35386707	.58323513
900.	.28055107E+04	.74486723E+04	.93877953	.35358730	.58445102
950.	.29061927E+04	.77804835E+04	.94549811	.35316567	.58555630
1000.	.30057979E+04	.81063886E+04	.95216094	.35305528	.58653893
1050.	.31013538E+04	.84277899E+04	.95880060	.35283031	.58682286
1100.	.31954576E+04	.87552287E+04	.96580774	.35249765	.58692465
1150.	.32888732E+04	.90795188E+04	.97267037	.35233029	.58697677
1200.	.33819628E+04	.94030741E+04	.97951340	.35229731	.58702888
1250.	.34748173E+04	.97218021E+04	.98644520	.35258039	.58708111
1300.	.35669226E+04	.10033039E+05	.99342968	.35318179	.58703512
1350.	.36573671E+04	.10342714E+05	1.00003630	.35363056	.58673966
1400.	.37462767E+04	.10650019E+05	1.00676790	.35414313	.58622163
1450.	.38350297E+04	.10953749E+05	1.01319400	.35473051	.58569727
1500.	.39234976E+04	.11258140E+05	1.01951180	.35530310	.58513855
1550.	.40110419E+04	.11563427E+05	1.02573920	.35580134	.58444618
1600.	.40985337E+04	.11867371E+05	1.03176950	.35633351	.58374522
1650.	.41860208E+04	.12169024E+05	1.03744010	.35686886	.58303558
1700.	.42705896E+04	.12474726E+05	1.04330780	.35716531	.58252602
1750.	.43497272E+04	.12778998E+05	1.04887000	.35701533	.58264759
1800.	.44285257E+04	.13083608E+05	1.05443220	.35690308	.58276178
1850.	.45070776E+04	.13389203E+05	1.05992220	.35679133	.58287656
1900.	.45854149E+04	.13694339E+05	1.06521500	.35667677	.58299204
1950.	.46631712E+04	.13997660E+05	1.07020240	.35652651	.58305865
2000.	.47405022E+04	.14288228E+05	1.07499250	.35665754	.58309451
2050.	.48165896E+04	.14582016E+05	1.07992570	.35671053	.58299875
2100.	.48925035E+04	.14872297E+05	1.08446450	.35675365	.58290222
2150.	.49676063E+04	.15163088E+05	1.08893110	.35674665	.58272706
2200.	.50415481E+04	.15452674E+05	1.09320060	.35666470	.58243401
2250.	.51153218E+04	.15743214E+05	1.09743400	.35658080	.58213874
2300.	.51889473E+04	.16032585E+05	1.10147020	.35649090	.58184123
2350.	.52620505E+04	.16319982E+05	1.10525510	.35636731	.58149806
2400.	.53343754E+04	.16611597E+05	1.10923710	.35620217	.58108110
2450.	.54065717E+04	.16901486E+05	1.11298580	.35603008	.58066142
2500.	.54786553E+04	.17174538E+05	1.11673460	.35623688	.58023877
2550.	.55492433E+04	.17440624E+05	1.12026810	.35644597	.58001948
2600.	.56180912E+04	.17707375E+05	1.12380170	.35655315	.58003315
2650.	.56867798E+04	.17974293E+05	1.12729910	.35665946	.58004688
2700.	.57547793E+04	.18238964E+05	1.13059940	.35672804	.58000578

2750.	.58224156E+04	.18501037E+05	1.13368450	.35677904	.57994309
2800.	.58899090E+04	.18766786E+05	1.13696670	.35683415	.57987991
2850.	.59572718E+04	.19029882E+05	1.14003380	.35688561	.57981639
2900.	.60245143E+04	.19293690E+05	1.14310080	.35693675	.57975233
2950.	.60916483E+04	.19561107E+05	1.14634690	.35699115	.57968787
3000.	.61586447E+04	.19822990E+05	1.14919870	.35703526	.57961922
3050.	.62249274E+04	.20088527E+05	1.15222960	.35704686	.57949203
3100.	.62911144E+04	.20354848E+05	1.15526050	.35705871	.57936407
3150.	.63572153E+04	.20618259E+05	1.15807620	.35706893	.57923541
3200.	.64232384E+04	.20885798E+05	1.16108910	.35708245	.57910599
3250.	.64891932E+04	.21153924E+05	1.16408390	.35709522	.57897582
3300.	.65550882E+04	.21419564E+05	1.16688150	.35710395	.57884488
3350.	.66201013E+04	.21686084E+05	1.16967910	.35706742	.57864071
3400.	.66825952E+04	.21953496E+05	1.17247680	.35689932	.57846803
3450.	.67442485E+04	.22218014E+05	1.17505920	.3568764	.57837981
3500.	.68057804E+04	.22486940E+05	1.17783880	.35647856	.57829125
3550.	.68671979E+04	.22753261E+05	1.18042120	.35626479	.57820248
3600.	.69285071E+04	.23016901E+05	1.18280650	.35604633	.57811334
3650.	.69897159E+04	.23285054E+05	1.18538900	.35583049	.57802401
3700.	.70508294E+04	.23548067E+05	1.18777430	.35564676	.57793430
3750.	.71118541E+04	.23801691E+05	1.19014150	.35560972	.57784435
3800.	.71727957E+04	.24052189E+05	1.19231160	.35556878	.57775404
3850.	.72336603E+04	.24307017E+05	1.19467880	.35553110	.57766338
3900.	.72944531E+04	.24562245E+05	1.19704610	.35549668	.57757248
3950.	.73551810E+04	.24801983E+05	1.19921610	.35563492	.57748132
4000.	.74158471E+04	.25045909E+05	1.20158340	.35577701	.57738975
4050.	.74764579E+04	.25289883E+05	1.20393260	.35591905	.57729792
4100.	.75370189E+04	.25534268E+05	1.20628170	.35606142	.57720578
4150.	.75975332E+04	.25775119E+05	1.20843370	.35620068	.57711325
4200.	.76580084E+04	.26020342E+05	1.21078290	.35634372	.57702048
4250.	.77173142E+04	.26266012E+05	1.21313210	.35643482	.57704743
4300.	.77746601E+04	.26512150E+05	1.21548120	.35643858	.57699064
4350.	.78315223E+04	.26754315E+05	1.21761520	.35642028	.57690424
4400.	.78882963E+04	.26996910E+05	1.21974920	.35640164	.57681753
4450.	.79449863E+04	.27244459E+05	1.22209840	.35638641	.57673043
4500.	.80015954E+04	.27488356E+05	1.22425040	.35636748	.57664306
4550.	.80581292E+04	.27732344E+05	1.22638440	.35634794	.57655545
4600.	.81145897E+04	.27981032E+05	1.22871550	.35633146	.57646742
4650.	.81709813E+04	.28226403E+05	1.23086750	.35631160	.57637910
4700.	.82273082E+04	.28472279E+05	1.23301950	.35629150	.57629048
4750.	.82835731E+04	.28718273E+05	1.23515350	.35627086	.57620161
4800.	.83397787E+04	.28960442E+05	1.23709030	.35624660	.57611226
4850.	.83959288E+04	.29207465E+05	1.23922430	.35622530	.57602272
4900.	.84520274E+04	.29455033E+05	1.24135830	.35620377	.57593277
4950.	.85080772E+04	.29693286E+05	1.24327700	.35623864	.57584259
5000.	.85640805E+04	.29933015E+05	1.24539290	.35631709	.57575191

TABLE 2m

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
3

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.50479682E+03	.10112439E+04	.91359392	.45605150	.79679879
150.	.70720404E+03	.16543583E+04	1.01777240	.43507670	.76989576
200.	.88622974E+03	.22986498E+04	1.09294010	.42137607	.75723332
250.	.10481566E+04	.29013113E+04	1.13990180	.41181223	.75069981
300.	.11978110E+04	.34460456E+04	1.16731040	.40574541	.74728786
350.	.13352730E+04	.39463974E+04	1.18412930	.40065296	.74405262
400.	.14625120E+04	.44090725E+04	1.19505170	.39640477	.74056517
450.	.15839469E+04	.48458904E+04	1.20342560	.39335644	.73917477
500.	.17027694E+04	.52629442E+04	1.21025170	.39156400	.73781711
550.	.18176321E+04	.56680034E+04	1.21680780	.39020952	.73804474
600.	.19308908E+04	.60572362E+04	1.22287080	.38981968	.73847108
650.	.20415073E+04	.64321251E+04	1.22909850	.39010645	.73973762
700.	.21453334E+04	.68035003E+04	1.23553200	.38959768	.73938399
750.	.22446588E+04	.71719993E+04	1.24220300	.38877887	.73835189
800.	.23418187E+04	.75335917E+04	1.24914620	.38829737	.73790636
850.	.24373274E+04	.79012742E+04	1.25668890	.38765420	.73776938
900.	.25286569E+04	.82539188E+04	1.26426180	.38731714	.73918098
950.	.26192162E+04	.86133278E+04	1.27248150	.38694731	.74052592
1000.	.27090378E+04	.89684697E+04	1.28077590	.38687428	.74178291
1050.	.27942548E+04	.93189296E+04	1.28917300	.38655488	.74190178
1100.	.28785141E+04	.96770882E+04	1.29826140	.38617646	.74189483
1150.	.29622322E+04	.10030953E+05	1.30722340	.38603502	.74185251
1200.	.30456262E+04	.10385485E+05	1.31629130	.38601290	.74180874
1250.	.31287775E+04	.10734403E+05	1.32556020	.38636362	.74176359
1300.	.32114706E+04	.11073477E+05	1.33499840	.38716909	.74165008
1350.	.32927037E+04	.11410979E+05	1.34398280	.38781397	.74123211
1400.	.33720408E+04	.11748059E+05	1.35319970	.38840837	.74042231
1450.	.34511958E+04	.12082076E+05	1.36202620	.38905723	.73960316
1500.	.35301303E+04	.12417189E+05	1.37075770	.38969795	.73875555
1550.	.36085556E+04	.12753613E+05	1.37941020	.39029554	.73781149
1600.	.36869165E+04	.13088690E+05	1.38776700	.39091620	.73685634
1650.	.37652554E+04	.13421720E+05	1.39568590	.39153802	.73588985
1700.	.38407261E+04	.13759468E+05	1.40390050	.39187541	.73513232
1750.	.39117783E+04	.14095828E+05	1.41172460	.39177220	.73526324
1800.	.39825462E+04	.14433143E+05	1.41954860	.39169692	.73538948
1850.	.40530883E+04	.14771965E+05	1.42730960	.39162100	.73551625
1900.	.41234327E+04	.15110132E+05	1.43477470	.39153839	.73564382
1950.	.41934143E+04	.15446607E+05	1.44184930	.39143038	.73573825
2000.	.42630860E+04	.15773004E+05	1.44862820	.39153141	.73580604
2050.	.43312534E+04	.16103751E+05	1.45565540	.39151203	.73564158
2100.	.43992549E+04	.16430268E+05	1.46209110	.39147939	.73547574
2150.	.44667898E+04	.16757947E+05	1.46846370	.39141540	.73525542
2200.	.45336982E+04	.17084285E+05	1.47454050	.39130239	.73495393
2250.	.46004701E+04	.17412129E+05	1.48058580	.39118655	.73464996
2300.	.46671249E+04	.17738606E+05	1.48633530	.39106299	.73434368
2350.	.47331832E+04	.18063104E+05	1.49174170	.39088999	.73395811
2400.	.47983173E+04	.18392842E+05	1.49744380	.39065253	.73344379
2450.	.48633385E+04	.18720786E+05	1.50281870	.39040647	.73292616
2500.	.49282618E+04	.19026621E+05	1.50819350	.39065120	.73240488
2550.	.49919689E+04	.19323659E+05	1.51325670	.39092649	.73215896
2600.	.50542637E+04	.19621483E+05	1.51832000	.39110140	.73222853
2650.	.51164263E+04	.19919750E+05	1.52335170	.39127582	.73229841
2700.	.51777844E+04	.20215217E+05	1.52808760	.39139367	.73227180

2750.	.52387440E+04	.20507602E+05	1.53251200	.39148594	.73220731
2800.	.52995780E+04	.20804475E+05	1.53723230	.39158317	.73214224
2850.	.53602972E+04	.21098227E+05	1.54164080	.39167522	.73207678
2900.	.54209115E+04	.21392804E+05	1.54604950	.39176713	.73201080
2950.	.54814314E+04	.21691913E+05	1.55073800	.39186326	.73194434
3000.	.55418162E+04	.21984172E+05	1.55483520	.39194611	.73187084
3050.	.56013373E+04	.22281016E+05	1.55921220	.39197823	.73169418
3100.	.56607690E+04	.22578797E+05	1.56358920	.39201013	.73151645
3150.	.57201202E+04	.22873239E+05	1.56765480	.39203777	.73133788
3200.	.57793984E+04	.23172688E+05	1.57201600	.39206960	.73115817
3250.	.58386117E+04	.23472958E+05	1.57636140	.39210065	.73097750
3300.	.58977683E+04	.23770121E+05	1.58041110	.39212667	.73079582
3350.	.59558294E+04	.24068295E+05	1.58446090	.39208339	.73048498
3400.	.60112710E+04	.24367509E+05	1.58851050	.39187292	.73017204
3450.	.60660054E+04	.24663265E+05	1.59224870	.39161843	.72997340
3500.	.61206145E+04	.24964356E+05	1.59628270	.39136723	.72977406
3550.	.61751050E+04	.25262186E+05	1.60002080	.39111011	.72957415
3600.	.62294821E+04	.25556655E+05	1.60346330	.39084715	.72937351
3650.	.62837528E+04	.25856580E+05	1.60720150	.39058746	.72917228
3700.	.63379214E+04	.26149908E+05	1.61064400	.39036982	.72897023
3750.	.63919942E+04	.26430960E+05	1.61407070	.39034261	.72876770
3800.	.64459760E+04	.26708066E+05	1.61720160	.39031062	.72856434
3850.	.64998722E+04	.26990373E+05	1.62062830	.39028271	.72836032
3900.	.65536881E+04	.27273171E+05	1.62405500	.39025711	.72815567
3950.	.66074282E+04	.27542577E+05	1.62718600	.39035976	.72795027
4000.	.66610966E+04	.27817134E+05	1.63061270	.39046682	.72774420
4050.	.67146996E+04	.28091944E+05	1.63402350	.39057375	.72753753
4100.	.67682396E+04	.28367274E+05	1.63743440	.39068075	.72732998
4150.	.68217219E+04	.28638290E+05	1.64054950	.39078352	.72712176
4200.	.68751515E+04	.28914674E+05	1.64396040	.39089065	.72691290
4250.	.69276155E+04	.29191619E+05	1.64737130	.39094625	.72686510
4300.	.69789848E+04	.29469147E+05	1.65078220	.39094389	.72678229
4350.	.70300818E+04	.29742009E+05	1.65388150	.39092591	.72667898
4400.	.70811007E+04	.30015401E+05	1.65698090	.39090758	.72657546
4450.	.71320460E+04	.30294683E+05	1.66039180	.39089334	.72647148
4500.	.71829188E+04	.30569491E+05	1.66350690	.39087448	.72636708
4550.	.72337250E+04	.30844611E+05	1.66660630	.39085501	.72626238
4600.	.72844669E+04	.31125499E+05	1.67000140	.39083932	.72615720
4650.	.73351480E+04	.31402116E+05	1.67311660	.39081942	.72605175
4700.	.73857711E+04	.31679359E+05	1.67623170	.39079903	.72594584
4750.	.74363407E+04	.31956942E+05	1.67933100	.39077822	.72583970
4800.	.74868576E+04	.32229842E+05	1.68213470	.39075283	.72573300
4850.	.75373259E+04	.32508681E+05	1.68523410	.39073126	.72562610
4900.	.75877491E+04	.32788186E+05	1.68833340	.39070932	.72551865
4950.	.76381291E+04	.33056025E+05	1.69112120	.39076089	.72541083
5000.	.76884687E+04	.33325360E+05	1.69420480	.39086869	.72530259

TABLE 2n

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
.4

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.48410960E+03	.10855168E+04	1.16525380	.51967003	.98372326
150.	.67126482E+03	.17866256E+04	1.30228630	.48929052	.94075875
200.	.83482993E+03	.24863325E+04	1.39868080	.46963167	.91828738
250.	.98201873E+03	.31351762E+04	1.45681740	.45631307	.90543458
300.	.11179694E+04	.37173644E+04	1.48904100	.44781786	.89789740
350.	.12424895E+04	.42483624E+04	1.50754080	.44090014	.89129914
400.	.13572256E+04	.47363178E+04	1.51859270	.43516353	.88473474
450.	.14673246E+04	.51956897E+04	1.52661520	.43113429	.88151537
500.	.15753627E+04	.56325289E+04	1.53288860	.42873379	.87876069
550.	.16803749E+04	.60553576E+04	1.53907140	.42709565	.87837524
600.	.17842524E+04	.64618198E+04	1.54483150	.42656239	.87847465
650.	.18863168E+04	.68524609E+04	1.55101440	.42695675	.87991067
700.	.19813048E+04	.72403081E+04	1.55765540	.42625121	.87907047
750.	.20718434E+04	.76260678E+04	1.56478150	.42511846	.87733843
800.	.21606467E+04	.80029042E+04	1.57242260	.42452709	.87645358
850.	.22481507E+04	.83866979E+04	1.58100000	.42380520	.87605092
900.	.23324321E+04	.87562729E+04	1.58974410	.42346442	.87774242
950.	.24161392E+04	.91322821E+04	1.59946510	.42317246	.87940323
1000.	.24992974E+04	.95052987E+04	1.60939080	.42316883	.88100198
1050.	.25774698E+04	.98735236E+04	1.61954550	.42278013	.88099040
1100.	.26549296E+04	.10250535E+05	1.63071510	.42236173	.88089505
1150.	.27319287E+04	.10622419E+05	1.64177630	.42224051	.88077509
1200.	.28086142E+04	.10995967E+05	1.65306930	.42223061	.88065259
1250.	.28850609E+04	.11363350E+05	1.66467530	.42264733	.88052763
1300.	.29611900E+04	.11719211E+05	1.67656720	.42363210	.88035646
1350.	.30359208E+04	.12073478E+05	1.68792930	.42443607	.87981064
1400.	.31085222E+04	.12428778E+05	1.69963160	.42508945	.87869436
1450.	.31809243E+04	.12781428E+05	1.71085830	.42578268	.87756577
1500.	.32531286E+04	.13135449E+05	1.72200360	.42647183	.87641223
1550.	.33250092E+04	.13491045E+05	1.73308130	.42713601	.87518942
1600.	.33968100E+04	.13845300E+05	1.74376470	.42781574	.87395278
1650.	.34685701E+04	.14197684E+05	1.75393190	.42849493	.87270211
1700.	.35375942E+04	.14555210E+05	1.76449340	.42885410	.87168060
1750.	.36030303E+04	.14911384E+05	1.77457930	.42879070	.87183383
1800.	.36682166E+04	.15268953E+05	1.78466520	.42874835	.87198441
1850.	.37331952E+04	.15628377E+05	1.79469690	.42870438	.87213580
1900.	.37979924E+04	.15986988E+05	1.80433440	.42865161	.87228811
1950.	.38625352E+04	.16344000E+05	1.81349630	.42857887	.87241919
2000.	.39268265E+04	.16693102E+05	1.82226390	.42866293	.87252565
2050.	.39894473E+04	.17047322E+05	1.83138520	.42858430	.87229337
2100.	.40519090E+04	.17396843E+05	1.83971780	.42848976	.87205953
2150.	.41140673E+04	.17747987E+05	1.84799630	.42837427	.87178881
2200.	.41758504E+04	.18097698E+05	1.85588060	.42822461	.87146437
2250.	.42375142E+04	.18449290E+05	1.86373770	.42807148	.87113727
2300.	.42990754E+04	.18799396E+05	1.87120050	.42790906	.87080756
2350.	.43599884E+04	.19147542E+05	1.87822840	.42768173	.87036312
2400.	.44198792E+04	.19501608E+05	1.88565070	.42736723	.86973202
2450.	.44796625E+04	.19853857E+05	1.89265150	.42704245	.86909691
2500.	.45393524E+04	.20180316E+05	1.89965230	.42730704	.86845743
2550.	.45980840E+04	.20496719E+05	1.90624530	.42763312	.86817565
2600.	.46557059E+04	.20813985E+05	1.91283830	.42786676	.86830336
2650.	.47132132E+04	.21131877E+05	1.91940430	.42810023	.86843162
2700.	.47698427E+04	.21446606E+05	1.92557580	.42825860	.86841962

2750.	.48260511E+04	.21757932E+05	1.93133970	.42838372	.86835237
2800.	.48821454E+04	.22074276E+05	1.93749780	.42851443	.86828461
2850.	.49381356E+04	.22387184E+05	1.94324800	.42863908	.86821635
2900.	.49940311E+04	.22700991E+05	1.94899830	.42876357	.86814761
2950.	.50498410E+04	.23019925E+05	1.95512930	.42889331	.86807846
3000.	.51055178E+04	.23331154E+05	1.96047160	.42900672	.86799914
3050.	.51602338E+04	.23647571E+05	1.96619480	.42905142	.86776964
3100.	.52148640E+04	.23965019E+05	1.97191800	.42909559	.86753872
3150.	.52694176E+04	.24278819E+05	1.97723320	.42913401	.86730667
3200.	.53239012E+04	.24598196E+05	1.98294290	.42917748	.86707344
3250.	.53783221E+04	.24918545E+05	1.98863900	.42922012	.86683893
3300.	.54326867E+04	.25235376E+05	1.99394080	.42925673	.86660303
3350.	.54858192E+04	.25553304E+05	1.99924260	.42920019	.86617916
3400.	.55363363E+04	.25872355E+05	2.00454430	.42894552	.86572217
3450.	.55862755E+04	.26187582E+05	2.00943830	.42864877	.86541374
3500.	.56360893E+04	.26508748E+05	2.01472660	.42835591	.86510425
3550.	.56857828E+04	.26826214E+05	2.01962050	.42805604	.86479377
3600.	.57353631E+04	.27139870E+05	2.02412020	.42774943	.86448236
3650.	.57848347E+04	.27459592E+05	2.02901410	.42744666	.86417004
3700.	.58342020E+04	.27771732E+05	2.03351380	.42719445	.86385651
3750.	.58834707E+04	.28069570E+05	2.03799990	.42717120	.86354208
3800.	.59326455E+04	.28362926E+05	2.04209180	.42714231	.86322661
3850.	.59817315E+04	.28662036E+05	2.04657790	.42711826	.86291007
3900.	.60307321E+04	.28961697E+05	2.05106400	.42709572	.86259250
3950.	.60796533E+04	.29249787E+05	2.05515580	.42717008	.86227396
4000.	.61284974E+04	.29543651E+05	2.05964200	.42724949	.86195427
4050.	.61772707E+04	.29837911E+05	2.06411460	.42732864	.86163358
4100.	.62259764E+04	.30132763E+05	2.06858710	.42740766	.86131187
4150.	.62746176E+04	.30422799E+05	2.07266540	.42748144	.86098891
4200.	.63231997E+04	.30718849E+05	2.07713800	.42756022	.86066510
4250.	.63710149E+04	.31015534E+05	2.08161050	.42759125	.86054949
4300.	.64181714E+04	.31312881E+05	2.08608320	.42758246	.86043994
4350.	.64651546E+04	.31605113E+05	2.09014790	.42756148	.86031665
4400.	.65120672E+04	.31897946E+05	2.09421260	.42754016	.86019319
4450.	.65589110E+04	.32197269E+05	2.09868530	.42752352	.86006914
4500.	.66056889E+04	.32491592E+05	2.10276350	.42750139	.85994463
4550.	.66524053E+04	.32786365E+05	2.10682820	.42747877	.85981982
4600.	.66990624E+04	.33087610E+05	2.11128730	.42746046	.85969450
4650.	.67456635E+04	.33383966E+05	2.11536560	.42743705	.85956865
4700.	.67922113E+04	.33681012E+05	2.11944390	.42741322	.85944231
4750.	.68387097E+04	.33978558E+05	2.12350870	.42738891	.85931580
4800.	.68851599E+04	.34270855E+05	2.12717910	.42735928	.85918862
4850.	.69315656E+04	.34569810E+05	2.13124380	.42733402	.85906116
4900.	.69779295E+04	.34869503E+05	2.13530860	.42730841	.85893314
4950.	.70242533E+04	.35155933E+05	2.13896550	.42737124	.85880466
5000.	.70705404E+04	.35443821E+05	2.14301680	.42750148	.85867565

TABLE 2o

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
.5

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.46680501E+03	.11365977E+04	1.41691400	.58193197	1.16028920
150.	.64214761E+03	.18782958E+04	1.58680010	.54249165	1.10083130
200.	.79422095E+03	.26168113E+04	1.70442160	.51730413	1.06862030
250.	.93067548E+03	.32977940E+04	1.77373280	.50056783	1.04963200
300.	.10567474E+04	.39059083E+04	1.81077160	.48990604	1.03817250
350.	.11719691E+04	.44579451E+04	1.83095230	.48134722	1.02836770
400.	.12777573E+04	.49630886E+04	1.84213360	.47426104	1.01885140
450.	.13797511E+04	.54377479E+04	1.84980480	.46936162	1.01392520
500.	.14800265E+04	.58878777E+04	1.85552550	.46642050	1.00985960
550.	.15779616E+04	.63225221E+04	1.86133500	.46454801	1.00895500
600.	.16750675E+04	.67404946E+04	1.86679220	.46391297	1.00880390
650.	.17709396E+04	.71415920E+04	1.87293030	.46444075	1.01048340
700.	.18595355E+04	.75404657E+04	1.87977870	.46356754	1.00920260
750.	.19437072E+04	.79378659E+04	1.88736010	.46214882	1.00679850
800.	.20264592E+04	.83248125E+04	1.89569900	.46145863	1.00550570
850.	.21081599E+04	.87193320E+04	1.90531120	.46066609	1.00486790
900.	.21873955E+04	.91003353E+04	1.91522640	.46035200	1.00690130
950.	.22661808E+04	.94874520E+04	1.92644870	.46015315	1.00893260
1000.	.23445335E+04	.98725589E+04	1.93800580	.46023726	1.01092020
1050.	.24176251E+04	.10252801E+05	1.94991810	.45979346	1.01080650
1100.	.24901376E+04	.10642595E+05	1.96316890	.45933915	1.01063890
1150.	.25622387E+04	.11026636E+05	1.97632940	.45923594	1.01045450
1200.	.26340377E+04	.11413075E+05	1.98984740	.45923933	1.01026670
1250.	.27056046E+04	.11792944E+05	2.00379040	.45972104	1.01007550
1300.	.27769291E+04	.12160045E+05	2.01813600	.46087169	1.00985390
1350.	.28468649E+04	.12525536E+05	2.03187580	.46181463	1.00917650
1400.	.29145091E+04	.12893152E+05	2.04606330	.46251452	1.00774520
1450.	.29819419E+04	.13258442E+05	2.05969040	.46324274	1.00629900
1500.	.30491839E+04	.13625300E+05	2.07324960	.46396918	1.00482940
1550.	.31161902E+04	.13993911E+05	2.08675240	.46468191	1.00330880
1600.	.31831026E+04	.14361185E+05	2.09976240	.46540442	1.00177180
1650.	.32499574E+04	.14726720E+05	2.11217790	.46612471	1.00021810
1700.	.33142170E+04	.15097693E+05	2.12508620	.46649490	.99892255
1750.	.33755522E+04	.15467338E+05	2.13743390	.46646809	.99910732
1800.	.34366612E+04	.15838706E+05	2.14978170	.46645674	.99929106
1850.	.34975776E+04	.16212174E+05	2.16208440	.46644317	.99947589
1900.	.35583257E+04	.16584711E+05	2.17389410	.46641893	.99966176
1950.	.36188797E+04	.16955709E+05	2.18514330	.46637806	.99983525
2000.	.36792144E+04	.17320512E+05	2.19589960	.46645188	.99998403
2050.	.37377648E+04	.17690971E+05	2.20711500	.46632130	.99968537
2100.	.37961617E+04	.18056421E+05	2.21734450	.46617201	.99938458
2150.	.38543399E+04	.18423812E+05	2.22752890	.46600852	.99905964
2200.	.39122709E+04	.18789714E+05	2.23722060	.46581938	.99870021
2250.	.39700923E+04	.19157768E+05	2.24688960	.46562621	.99833792
2300.	.40278199E+04	.19524257E+05	2.25606580	.46542240	.99797275
2350.	.40848617E+04	.19888810E+05	2.26471520	.46513835	.99745664
2400.	.41408102E+04	.20259769E+05	2.27385750	.46474430	.99669415
2450.	.41966531E+04	.20628900E+05	2.28248430	.46433861	.99592695
2500.	.42524037E+04	.20969548E+05	2.29111120	.46461324	.99515484
2550.	.43074118E+04	.21299225E+05	2.29923390	.46498157	.99482946
2600.	.43615664E+04	.21629815E+05	2.30735670	.46526930	.99501565
2650.	.44156188E+04	.21961163E+05	2.31545690	.46555708	.99520297
2700.	.44687423E+04	.22289097E+05	2.32306410	.46575121	.99520462

2750.	•45214299E+04	•22613399E+05	2.33016720	•46590461	•99513366
2800.	•45740114E+04	•22943086E+05	2.33776330	•46606437	•99506193
2850.	•46264961E+04	•23269115E+05	2.34485510	•46621721	•99498996
2900.	•46788930E+04	•23596090E+05	2.35194700	•46636997	•99491728
2950.	•47312108E+04	•23928618E+05	2.35952040	•46652873	•99484422
3000.	•47833967E+04	•24252834E+05	2.36610820	•46666851	•99475799
3050.	•48345545E+04	•24582663E+05	2.37317750	•46672140	•99447313
3100.	•48856297E+04	•24913583E+05	2.38024670	•46677360	•99418666
3150.	•49366304E+04	•25240628E+05	2.38681180	•46681909	•99389890
3200.	•49875624E+04	•25573650E+05	2.39386990	•46687019	•99360955
3250.	•50384332E+04	•25907747E+05	2.40091660	•46692045	•99331873
3300.	•50892495E+04	•26238039E+05	2.40747050	•46696393	•99302645
3350.	•51387371E+04	•26569484E+05	2.41402430	•46689036	•99248547
3400.	•51856471E+04	•26902111E+05	2.42057820	•46659029	•99188332
3450.	•52320907E+04	•27230653E+05	2.42662790	•46625165	•99146695
3500.	•52784095E+04	•27565553E+05	2.43317050	•46591737	•99104910
3550.	•53246091E+04	•27896447E+05	2.43922010	•46557516	•99063009
3600.	•53706949E+04	•28223214E+05	2.44477700	•46522522	•99020976
3650.	•54166717E+04	•28556476E+05	2.45082680	•46487963	•98978821
3700.	•54625442E+04	•28881437E+05	2.45638360	•46459263	•98936526
3750.	•55083174E+04	•29190619E+05	2.46192920	•46457003	•98894109
3800.	•55539948E+04	•29494935E+05	2.46698190	•46454091	•98851538
3850.	•55995816E+04	•29805390E+05	2.47252740	•46451725	•98808818
3900.	•56450826E+04	•30116437E+05	2.47807300	•46449472	•98765994
3950.	•56905004E+04	•30417387E+05	2.48312580	•46454443	•98723015
4000.	•57358399E+04	•30724552E+05	2.48867130	•46459977	•98679901
4050.	•57811050E+04	•31032212E+05	2.49420560	•46465472	•98636655
4100.	•58262998E+04	•31340517E+05	2.49973990	•46470943	•98593277
4150.	•58714266E+04	•31643648E+05	2.50478130	•46475801	•98549731
4200.	•59164908E+04	•31953247E+05	2.51031560	•46481219	•98506073
4250.	•59609596E+04	•32263543E+05	2.51584990	•46482430	•98488364
4300.	•60050104E+04	•32574547E+05	2.52138410	•46480882	•98474663
4350.	•60489413E+04	•32880128E+05	2.52641420	•46478319	•98460105
4400.	•60928047E+04	•33186355E+05	2.53144440	•46475715	•98445506
4450.	•61366034E+04	•33499503E+05	2.53697870	•46473620	•98430834
4500.	•61803410E+04	•33807270E+05	2.54202010	•46470924	•98416144
4550.	•62240197E+04	•34115598E+05	2.54705030	•46468160	•98401382
4600.	•62676429E+04	•34430879E+05	2.55257330	•46465897	•98386573
4650.	•63112131E+04	•34740840E+05	2.55761470	•46463041	•98371718
4700.	•63547334E+04	•35051540E+05	2.56265610	•46460144	•98356797
4750.	•63982068E+04	•35362854E+05	2.56768620	•46457186	•98341855
4800.	•64416343E+04	•35668526E+05	2.57222350	•46453624	•98326835
4850.	•64850202E+04	•35981346E+05	2.57725360	•46450571	•98311785
4900.	•65283661E+04	•36294970E+05	2.58228380	•46447466	•98296665
4950.	•65716745E+04	•36594180E+05	2.58680980	•46454575	•98281499
5000.	•66149485E+04	•36894798E+05	2.59182860	•46469456	•98266278

TABLE 2p

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
.6

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.45243377E+03	.11738948E+04	1.66857400	.64308932	1.32977910
150.	.61843765E+03	.19455875E+04	1.87131400	.59482855	1.25364780
200.	.76168181E+03	.27127996E+04	2.01016240	.56440000	1.21185160
250.	.89000646E+03	.34174484E+04	2.09064840	.54446776	1.18693170
300.	.10086481E+04	.40445884E+04	2.13250220	.53180793	1.17174130
350.	.11168909E+04	.46119754E+04	2.15436390	.52172641	1.15887540
400.	.12159798E+04	.51295786E+04	2.16567460	.51337872	1.14652250
450.	.13119074E+04	.56152940E+04	2.17299430	.50767908	1.13999280
500.	.14063441E+04	.60749766E+04	2.17816230	.50423990	1.13468910
550.	.14989625E+04	.65180518E+04	2.18359840	.50216417	1.13333910
600.	.15909639E+04	.69442643E+04	2.18875280	.50145363	1.13299630
650.	.16821570E+04	.73528132E+04	2.19484610	.50213103	1.13497350
700.	.17659273E+04	.77595969E+04	2.20190210	.50110837	1.13328850
750.	.18452853E+04	.81653875E+04	2.20993850	.49942112	1.13023560
800.	.19234649E+04	.85595366E+04	2.21897540	.49863928	1.12856000
850.	.20007760E+04	.89617146E+04	2.22962220	.49778136	1.12771060
900.	.20762293E+04	.93509629E+04	2.24070870	.49751293	1.13013060
950.	.21513163E+04	.97460414E+04	2.25343220	.49741686	1.13257150
1000.	.22260474E+04	.10139881E+05	2.26662080	.49760005	1.13498100
1050.	.22953095E+04	.10528804E+05	2.28029050	.49710987	1.13478630
1100.	.23640712E+04	.10927845E+05	2.29562270	.49662266	1.13455870
1150.	.24324528E+04	.11320649E+05	2.31088250	.49653624	1.13431930
1200.	.25005434E+04	.11716407E+05	2.32662530	.49655389	1.13407600
1250.	.25684095E+04	.12105292E+05	2.34290540	.49709997	1.13382890
1300.	.26360754E+04	.12480452E+05	2.35970480	.49840820	1.13356220
1350.	.27023413E+04	.12853984E+05	2.37582230	.49947803	1.13275030
1400.	.27661972E+04	.13230492E+05	2.39249520	.50021673	1.13099910
1450.	.28298323E+04	.13604930E+05	2.40852250	.50097388	1.12922970
1500.	.28932768E+04	.13981073E+05	2.42449550	.50173091	1.12743730
1550.	.29565280E+04	.14359103E+05	2.44042340	.50248125	1.12560610
1600.	.30196725E+04	.14735803E+05	2.45576000	.50323629	1.12375540
1650.	.30827452E+04	.15110865E+05	2.47042370	.50398748	1.12188520
1700.	.31433532E+04	.15491576E+05	2.48567890	.50436228	1.12030890
1750.	.32015708E+04	.15870978E+05	2.50028850	.50437034	1.12053180
1800.	.32595795E+04	.16252359E+05	2.51489820	.50438896	1.12075470
1850.	.33174079E+04	.16636026E+05	2.52947170	.50440468	1.12097910
1900.	.33750792E+04	.17018660E+05	2.54345380	.50440857	1.12120520
1950.	.34325916E+04	.17399811E+05	2.55679020	.50439723	1.12142480
2000.	.34899038E+04	.17776117E+05	2.56953530	.50446512	1.12161850
2050.	.35453492E+04	.18158490E+05	2.58284460	.50428675	1.12125430
2100.	.36006458E+04	.18535618E+05	2.59497120	.50408743	1.12088770
2150.	.36557694E+04	.18914940E+05	2.60706150	.50387765	1.12050540
2200.	.37107151E+04	.19292723E+05	2.61856050	.50364750	1.12010200
2250.	.37655571E+04	.19672861E+05	2.63004150	.50341286	1.11969540
2300.	.38203103E+04	.20051385E+05	2.64093090	.50316599	1.11928580
2350.	.38743482E+04	.20427992E+05	2.65120190	.50282372	1.11868820
2400.	.39272406E+04	.20811365E+05	2.66206430	.50234888	1.11778380
2450.	.39800274E+04	.21192911E+05	2.67231720	.50186097	1.11687410
2500.	.40327210E+04	.21543922E+05	2.68257010	.50213958	1.11595860
2550.	.40848515E+04	.21883271E+05	2.69222250	.50254502	1.11558380
2600.	.41363410E+04	.22223570E+05	2.70187500	.50288392	1.11582860
2650.	.41877376E+04	.22564724E+05	2.71150940	.50322303	1.11607470
2700.	.42381683E+04	.22902273E+05	2.72055230	.50345037	1.11608940

2750.	.42881517E+04	.23236028E+05	2.72899480	.50362923	1.11601360
2800.	.43380355E+04	.23575433E+05	2.73802880	.50381539	1.11593720
2850.	.43878279E+04	.23911017E+05	2.74646230	.50399374	1.11586020
2900.	.44375372E+04	.24247586E+05	2.75489570	.50417192	1.11578270
2950.	.44871724E+04	.24590012E+05	2.76391170	.50435713	1.11570470
3000.	.45366764E+04	.24923684E+05	2.77174470	.50452043	1.11561040
3050.	.45851039E+04	.25263278E+05	2.78016000	.50457909	1.11526860
3100.	.46334504E+04	.25604009E+05	2.78857550	.50463683	1.11492490
3150.	.46817237E+04	.25940695E+05	2.79639040	.50468682	1.11457980
3200.	.47299303E+04	.26283649E+05	2.80479680	.50474319	1.11423260
3250.	.47780761E+04	.26627757E+05	2.81319410	.50479862	1.11388390
3300.	.48261675E+04	.26967845E+05	2.82100000	.50484634	1.11353320
3350.	.48728610E+04	.27309125E+05	2.82880600	.50475355	1.11287270
3400.	.49170228E+04	.27651628E+05	2.83661190	.50440737	1.11212490
3450.	.49608122E+04	.27989856E+05	2.84381740	.50402703	1.11160240
3500.	.50044780E+04	.28334755E+05	2.85161440	.50365146	1.11107820
3550.	.50480258E+04	.28675414E+05	2.85881980	.50326722	1.11055250
3600.	.50914598E+04	.29011711E+05	2.86543380	.50287420	1.11002500
3650.	.51347857E+04	.29354813E+05	2.87263930	.50248615	1.10949610
3700.	.51780070E+04	.29689084E+05	2.87925330	.50216412	1.10896550
3750.	.52211289E+04	.30006445E+05	2.88585840	.50214005	1.10843330
3800.	.52641550E+04	.30318656E+05	2.89187200	.50210873	1.10789940
3850.	.53070895E+04	.30637289E+05	2.89847700	.50208345	1.10736370
3900.	.53499369E+04	.30956545E+05	2.90508200	.50205877	1.10682640
3950.	.53927009E+04	.31266888E+05	2.91109560	.50208600	1.10628760
4000.	.54353852E+04	.31583772E+05	2.91770070	.50211947	1.10574690
4050.	.54779934E+04	.31901231E+05	2.92429660	.50215231	1.10520470
4100.	.55205295E+04	.32219375E+05	2.93089260	.50218475	1.10466070
4150.	.55629961E+04	.32532073E+05	2.93689710	.50221044	1.10411490
4200.	.56053974E+04	.32851585E+05	2.94349310	.50224206	1.10356750
4250.	.56473472E+04	.33171827E+05	2.95008910	.50223875	1.10333380
4300.	.56890230E+04	.33492820E+05	2.95668510	.50221656	1.10316930
4350.	.57306066E+04	.33808162E+05	2.96268060	.50218515	1.10299930
4400.	.57721259E+04	.34124191E+05	2.96867620	.50215320	1.10282890
4450.	.58135840E+04	.34447443E+05	2.97527220	.50212708	1.10265790
4500.	.58549823E+04	.34765041E+05	2.98127670	.50209410	1.10248630
4550.	.58963260E+04	.35083280E+05	2.98727220	.50206052	1.10231430
4600.	.59376155E+04	.35408835E+05	2.99385920	.50203244	1.10214150
4650.	.59788548E+04	.35728741E+05	2.99986370	.50199778	1.10196830
4700.	.60200460E+04	.36049434E+05	3.00586830	.50196252	1.10179450
4750.	.60611917E+04	.36370819E+05	3.01186380	.50192664	1.10162020
4800.	.61022944E+04	.36686269E+05	3.01726800	.50188415	1.10144520
4850.	.61433564E+04	.37009243E+05	3.02326350	.50184720	1.10126970
4900.	.61843799E+04	.37333054E+05	3.02925890	.50180965	1.10109340
4950.	.62253682E+04	.37641589E+05	3.03465410	.50188739	1.10091680
5000.	.62663222E+04	.37951479E+05	3.04064050	.50205244	1.10073930

TABLE 2q

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
.7

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.44042461E+03	.12023282E+04	1.92023400	.70340054	1.49424610
150.	.59889025E+03	.19970890E+04	2.15582780	.64649307	1.40137050
200.	.73515785E+03	.27863839E+04	2.31590310	.61102646	1.35015160
250.	.85712624E+03	.35091899E+04	2.40756390	.58805198	1.31948190
300.	.96998829E+03	.41508911E+04	2.45423270	.57350984	1.30072250
350.	.10728095E+04	.47299792E+04	2.47777540	.56198574	1.28491580
400.	.11667030E+04	.52570307E+04	2.48921550	.55243639	1.26982140
450.	.12579273E+04	.57511213E+04	2.49618390	.54598358	1.26177100
500.	.13478190E+04	.62180034E+04	2.50079920	.54207506	1.25528680
550.	.14363024E+04	.66673987E+04	2.50586200	.53981706	1.25354840
600.	.15243232E+04	.70998052E+04	2.51071350	.53904842	1.25305850
650.	.16118612E+04	.75139357E+04	2.51676200	.53988630	1.25537340
700.	.16918638E+04	.79266706E+04	2.52402540	.53872646	1.25331180
750.	.17674598E+04	.83388033E+04	2.53251700	.53678228	1.24962910
800.	.18420670E+04	.87383438E+04	2.54225180	.53591369	1.24759010
850.	.19159464E+04	.91462682E+04	2.55393330	.53499407	1.24654690
900.	.19884622E+04	.95417479E+04	2.56619100	.53478396	1.24938630
950.	.20606716E+04	.99428152E+04	2.58041580	.53479717	1.25226500
1000.	.21325785E+04	.10343264E+05	2.59523570	.53508677	1.25512020
1050.	.21988547E+04	.10738753E+05	2.61066300	.53455634	1.25486050
1100.	.22646779E+04	.11144796E+05	2.62807630	.53403815	1.25458170
1150.	.23301429E+04	.11544222E+05	2.64543540	.53396777	1.25429460
1200.	.23953268E+04	.11947037E+05	2.66340330	.53400029	1.25400320
1250.	.24602932E+04	.12342739E+05	2.68202050	.53461040	1.25370750
1300.	.25250842E+04	.12723958E+05	2.70127360	.53607086	1.25339940
1350.	.25884559E+04	.13103539E+05	2.71976880	.53725955	1.25245140
1400.	.26493270E+04	.13486767E+05	2.73892700	.53803207	1.25037630
1450.	.27099701E+04	.13868133E+05	2.75735460	.53881430	1.24828050
1500.	.27704198E+04	.14251310E+05	2.77574140	.53959733	1.24616090
1550.	.28306950E+04	.14636478E+05	2.79409450	.54037790	1.24400920
1600.	.28908530E+04	.15020319E+05	2.81175760	.54115879	1.24183550
1650.	.29509266E+04	.15402598E+05	2.82866970	.54193432	1.23963920
1700.	.30086515E+04	.15790694E+05	2.84627180	.54230928	1.23777750
1750.	.30644221E+04	.16177492E+05	2.86314330	.54235103	1.23804300
1800.	.31199973E+04	.16566474E+05	2.88001470	.54239894	1.23830990
1850.	.31754023E+04	.16957878E+05	2.89685910	.54244363	1.23857850
1900.	.32306593E+04	.17348178E+05	2.91301350	.54247507	1.23884900
1950.	.32857789E+04	.17737031E+05	2.92843730	.54249199	1.23911740
2000.	.33407113E+04	.18122133E+05	2.94317100	.54255669	1.23935790
2050.	.33937135E+04	.18513617E+05	2.95857440	.54233340	1.23892890
2100.	.34465704E+04	.18899681E+05	2.97259780	.54208676	1.23849690
2150.	.34992809E+04	.19288131E+05	2.98659410	.54183222	1.23805530
2200.	.35518504E+04	.19675007E+05	2.99990060	.54156006	1.23760120
2250.	.36043196E+04	.20064402E+05	3.01319330	.54128256	1.23714350
2300.	.36567039E+04	.20452135E+05	3.02579610	.54099193	1.23668260
2350.	.37083497E+04	.20837972E+05	3.03768860	.54059056	1.23599640
2400.	.37588094E+04	.21230857E+05	3.05027110	.54003411	1.23494250
2450.	.38091626E+04	.21621920E+05	3.06215000	.53946305	1.23388240
2500.	.38594211E+04	.21980833E+05	3.07402890	.53974164	1.23281570
2550.	.39092660E+04	.22327544E+05	3.08521110	.54018077	1.23238750
2600.	.39586465E+04	.22675236E+05	3.09639330	.54056883	1.23269040
2650.	.40079416E+04	.23023854E+05	3.10756200	.54095752	1.23299490
2700.	.40562433E+04	.23368722E+05	3.11804050	.54121616	1.23302220

2750.	.41040886E+04	.23709668E+05	3.12782250	.54141880	1.23294070
2800.	.41518392E+04	.24056472E+05	3.13829440	.54162942	1.23285860
2850.	.41995025E+04	.24399328E+05	3.14806940	.54183152	1.23277590
2900.	.42470872E+04	.24743190E+05	3.15784450	.54203358	1.23269280
2950.	.42946005E+04	.25093154E+05	3.16830280	.54224327	1.23260910
3000.	.43419839E+04	.25434015E+05	3.17738110	.54242859	1.23250610
3050.	.43882527E+04	.25781043E+05	3.18714270	.54249112	1.23210580
3100.	.44344427E+04	.26129239E+05	3.19690420	.54255265	1.23170370
3150.	.44805610E+04	.26473255E+05	3.20596890	.54260569	1.23129980
3200.	.45266126E+04	.26823767E+05	3.21572370	.54266557	1.23089380
3250.	.45726049E+04	.27175490E+05	3.22547180	.54272463	1.23048590
3300.	.46185427E+04	.27523027E+05	3.23452970	.54277507	1.23007570
3350.	.46630293E+04	.27871787E+05	3.24358780	.54266143	1.22929380
3400.	.47050313E+04	.28221803E+05	3.25264570	.54226864	1.22840040
3450.	.47467393E+04	.28567393E+05	3.26100700	.54184678	1.22777320
3500.	.47883254E+04	.28919892E+05	3.27005830	.54143020	1.22714410
3550.	.48297936E+04	.29267977E+05	3.27841940	.54100387	1.22651300
3600.	.48711499E+04	.29611513E+05	3.28609070	.54056812	1.22588020
3650.	.49123978E+04	.29962099E+05	3.29445190	.54013765	1.22524540
3700.	.49535419E+04	.30303437E+05	3.30212320	.53978052	1.22460860
3750.	.49945870E+04	.30626976E+05	3.30978760	.53975364	1.22397020
3800.	.50355362E+04	.30945145E+05	3.31676210	.53971875	1.22332950
3850.	.50763937E+04	.31269955E+05	3.32442660	.53969051	1.22268680
3900.	.51171637E+04	.31595410E+05	3.33209100	.53966240	1.22204240
3950.	.51578497E+04	.31912916E+05	3.33906550	.53968854	1.22139590
4000.	.51984554E+04	.32237216E+05	3.34673000	.53968140	1.22074750
4050.	.52389841E+04	.32562152E+05	3.35438760	.53969353	1.22009710
4100.	.52794391E+04	.32887797E+05	3.36204530	.53970513	1.21944450
4150.	.53198243E+04	.33207800E+05	3.36901300	.53970925	1.21879010
4200.	.53601420E+04	.33534877E+05	3.37667060	.53971967	1.21813350
4250.	.54001297E+04	.33862713E+05	3.38432830	.53970309	1.21784700
4300.	.54399322E+04	.34191332E+05	3.39198610	.53967403	1.21765440
4350.	.54796595E+04	.34514123E+05	3.39894690	.53963622	1.21745890
4400.	.55193240E+04	.34837626E+05	3.40590790	.53959787	1.21726270
4450.	.55589294E+04	.35168592E+05	3.41356560	.53956581	1.21706590
4500.	.55984774E+04	.35493696E+05	3.42053320	.53952614	1.21686840
4550.	.56379718E+04	.35819501E+05	3.42749420	.53948587	1.21667040
4600.	.56774148E+04	.36152895E+05	3.43514510	.53945176	1.21647170
4650.	.57168081E+04	.36480400E+05	3.44211280	.53941014	1.21627230
4700.	.57561558E+04	.36808714E+05	3.44908050	.53936804	1.21607230
4750.	.57954593E+04	.37137790E+05	3.45604150	.53932522	1.21587190
4800.	.58347210E+04	.37460701E+05	3.46231230	.53927517	1.21567060
4850.	.58739423E+04	.37791426E+05	3.46927320	.53923104	1.21546860
4900.	.59131280E+04	.38123022E+05	3.47623410	.53918645	1.21526610
4950.	.59522783E+04	.38438657E+05	3.48249830	.53926959	1.21506300
5000.	.59913956E+04	.38755608E+05	3.48945250	.53944941	1.21485900

TABLE 2r

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
.8

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.43028987E+03	.12247242E+04	2.17189400	.76306484	1.65502880
150.	.58255602E+03	.20377768E+04	2.44034170	.69764053	1.54538710
200.	.71318034E+03	.28445905E+04	2.62164390	.65728434	1.48489310
250.	.83004964E+03	.35817702E+04	2.72447940	.63137861	1.44862700
300.	.93829339E+03	.42349772E+04	2.77596330	.61503707	1.42643070
350.	.10367858E+04	.48232804E+04	2.80118690	.60212771	1.40778050
400.	.11265366E+04	.53577479E+04	2.81275650	.59141884	1.39002140
450.	.12140108E+04	.58584027E+04	2.81937350	.58424624	1.38051590
500.	.13002668E+04	.63309075E+04	2.82343610	.57988845	1.37289620
550.	.13854448E+04	.67852148E+04	2.82812560	.57746320	1.37081340
600.	.14702769E+04	.72224498E+04	2.83267410	.57664854	1.37021050
650.	.15548827E+04	.76409175E+04	2.83867790	.57765459	1.37289330
700.	.16318643E+04	.80582972E+04	2.84614880	.57636600	1.37047660
750.	.17044411E+04	.84753910E+04	2.85509550	.57417316	1.36617850
800.	.17761823E+04	.88791210E+04	2.86552820	.57322120	1.36379130
850.	.18473068E+04	.92915170E+04	2.87824450	.57224246	1.36256800
900.	.19174767E+04	.96918733E+04	2.89167330	.57209952	1.36585120
950.	.19873849E+04	.10097611E+05	2.90739930	.57222657	1.36918870
1000.	.20570291E+04	.10503236E+05	2.92385070	.57262789	1.37250710
1050.	.21209131E+04	.10903868E+05	2.94103550	.57206128	1.37219450
1100.	.21843739E+04	.11315399E+05	2.96053010	.57151361	1.37187130
1150.	.22474924E+04	.11720001E+05	2.97998850	.57145912	1.37154200
1200.	.23103382E+04	.12128351E+05	3.00018130	.57150666	1.37120790
1250.	.23729730E+04	.12529387E+05	3.02113560	.57218068	1.37086920
1300.	.24354469E+04	.12915331E+05	3.04284240	.57378947	1.37052240
1350.	.24964797E+04	.13299624E+05	3.06371530	.57509167	1.36943680
1400.	.25549407E+04	.13688114E+05	3.08535880	.57589443	1.36703580
1450.	.26131677E+04	.14074907E+05	3.10618670	.57669913	1.36461090
1500.	.26711972E+04	.14463600E+05	3.12698740	.57750490	1.36216070
1550.	.27290586E+04	.14854360E+05	3.14776560	.57831079	1.35968170
1600.	.27867936E+04	.15243796E+05	3.16775520	.57911296	1.35717770
1650.	.28444339E+04	.15631742E+05	3.18691560	.57990790	1.35464850
1700.	.28998267E+04	.16025629E+05	3.20686460	.58027996	1.35249790
1750.	.29536273E+04	.16418232E+05	3.22599790	.58035453	1.35280980
1800.	.30072426E+04	.16813175E+05	3.24513120	.58043151	1.35312360
1850.	.30606962E+04	.17210658E+05	3.26424650	.58050463	1.35343960
1900.	.31140099E+04	.17606970E+05	3.28257320	.58056354	1.35375810
1950.	.31671999E+04	.18001867E+05	3.30008420	.58060788	1.35407730
2000.	.32202104E+04	.18393914E+05	3.31680670	.58067113	1.35436570
2050.	.32712418E+04	.18792594E+05	3.33430420	.58040497	1.35387240
2100.	.33221315E+04	.19185712E+05	3.35022450	.58011326	1.35337600
2150.	.33728881E+04	.19581373E+05	3.36612670	.57981470	1.35287310
2200.	.34235240E+04	.19975439E+05	3.38124050	.57949955	1.35236310
2250.	.34740624E+04	.20372141E+05	3.39634520	.57917893	1.35184920
2300.	.35245174E+04	.20767159E+05	3.41066130	.57884349	1.35133190
2350.	.35742159E+04	.21160298E+05	3.42417540	.57838230	1.35055160
2400.	.36226956E+04	.21560705E+05	3.43847790	.57774353	1.34934240
2450.	.36710675E+04	.21959291E+05	3.45198290	.57708885	1.34812610
2500.	.37193432E+04	.22324430E+05	3.46548780	.57736470	1.34690230
2550.	.37673306E+04	.22676934E+05	3.47819970	.57783508	1.34641710
2600.	.38150028E+04	.23030439E+05	3.49091170	.57827108	1.34677790
2650.	.38625958E+04	.23384931E+05	3.50361460	.57870801	1.34714100
2700.	.39091726E+04	.23735556E+05	3.51552880	.57899667	1.34717990

2750.	.39552872E+04	.24082158E+05	3.52665000	.57922188	1.34709210
2800.	.40013100E+04	.24434785E+05	3.53855990	.57945568	1.34700370
2850.	.40472496E+04	.24783357E+05	3.54967660	.57968042	1.34691490
2900.	.40931135E+04	.25132961E+05	3.56079320	.57990500	1.34682550
2950.	.41389085E+04	.25488853E+05	3.57269410	.58013803	1.34673550
3000.	.41845745E+04	.25835369E+05	3.58301760	.58034410	1.34662300
3050.	.42290968E+04	.26188245E+05	3.59412520	.58040937	1.34616370
3100.	.42735413E+04	.26542308E+05	3.60523300	.58047371	1.34570220
3150.	.43179143E+04	.26892090E+05	3.61554750	.58052847	1.34523850
3200.	.43622222E+04	.27248544E+05	3.62665070	.58059087	1.34477260
3250.	.44064703E+04	.27606258E+05	3.63774930	.58065218	1.34430450
3300.	.44506646E+04	.27959651E+05	3.64805940	.58070424	1.34383390
3350.	.44933664E+04	.28314290E+05	3.65836950	.58056882	1.34292960
3400.	.45336275E+04	.28670208E+05	3.66867950	.58012924	1.34189050
3450.	.45736606E+04	.29021590E+05	3.67819660	.57966575	1.34115990
3500.	.46135730E+04	.29380063E+05	3.68850220	.57920822	1.34042700
3550.	.46533692E+04	.29733984E+05	3.69801910	.57874007	1.33969200
3600.	.46930539E+04	.30083210E+05	3.70674750	.57826159	1.33895490
3650.	.47326309E+04	.30439677E+05	3.71626450	.57778891	1.33821550
3700.	.47721051E+04	.30786564E+05	3.72499290	.57739658	1.33747400
3750.	.48114799E+04	.31114933E+05	3.73371690	.57736595	1.33673030
3800.	.48507593E+04	.31437758E+05	3.74165220	.57732660	1.33598420
3850.	.48899475E+04	.31767397E+05	3.75037610	.57729445	1.33523590
3900.	.49290475E+04	.32097693E+05	3.75910000	.57726211	1.33448540
3950.	.49680638E+04	.32420847E+05	3.76703530	.57724805	1.33373270
4000.	.50069988E+04	.32750995E+05	3.77575930	.57724114	1.33297760
4050.	.50458569E+04	.33081822E+05	3.78447870	.57723353	1.33222040
4100.	.50846404E+04	.33413385E+05	3.79319800	.57722517	1.33146080
4150.	.51233530E+04	.33739145E+05	3.80112880	.57720858	1.33069880
4200.	.51619982E+04	.34072180E+05	3.80984820	.57719902	1.32993470
4250.	.52004151E+04	.34406003E+05	3.81856760	.57717067	1.32959820
4300.	.52387048E+04	.34740630E+05	3.82728700	.57713478	1.32937760
4350.	.52769271E+04	.35069293E+05	3.83521330	.57709004	1.32915520
4400.	.53150886E+04	.35398692E+05	3.84313960	.57704468	1.32893220
4450.	.53531929E+04	.35735744E+05	3.85185910	.57700614	1.32870840
4500.	.53912417E+04	.36066763E+05	3.85978980	.57695942	1.32848410
4550.	.54292376E+04	.36398532E+05	3.86771610	.57691197	1.32825900
4600.	.54671845E+04	.36738117E+05	3.87643110	.57687126	1.32803340
4650.	.55050826E+04	.37071605E+05	3.88436180	.57682239	1.32780680
4700.	.55429356E+04	.37405929E+05	3.89229270	.57677292	1.32757960
4750.	.55807457E+04	.37741069E+05	3.90021900	.57672266	1.32735180
4800.	.56185149E+04	.38069863E+05	3.90735680	.57666459	1.32712310
4850.	.56562454E+04	.38406700E+05	3.91528300	.57661296	1.32689390
4900.	.56939397E+04	.38744432E+05	3.92320930	.57656070	1.32666370
4950.	.57316003E+04	.39065662E+05	3.93034260	.57664841	1.32643300
5000.	.57692283E+04	.39388166E+05	3.93826440	.57684193	1.32620130

TABLE 2s

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

W
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TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.42164695E+03	.12428221E+04	2.42355400	.82222878	1.81303250
150.	.56873130E+03	.20707339E+04	2.72485550	.74838712	1.68662640
200.	.69470112E+03	.28917859E+04	2.92738460	.70325306	1.61698500
250.	.80739279E+03	.36406267E+04	3.04139490	.67449933	1.57525030
300.	.91186382E+03	.43031548E+04	3.09769380	.65641954	1.54972330
350.	.10068226E+04	.48989067E+04	3.12459840	.64216699	1.52830860
400.	.10931947E+04	.54393488E+04	3.13629740	.63032979	1.50794630
450.	.11776106E+04	.59452879E+04	3.14256310	.62246196	1.49703780
500.	.12608937E+04	.64223062E+04	3.14607300	.61766964	1.48831850
550.	.13433700E+04	.68805449E+04	3.15038920	.61508766	1.48592510
600.	.14255915E+04	.73216470E+04	3.15463480	.61423618	1.48523580
650.	.15077939E+04	.77435827E+04	3.16059380	.61541591	1.48830970
700.	.15823003E+04	.81646863E+04	3.16827210	.61400494	1.48555480
750.	.16524016E+04	.85857704E+04	3.17767400	.61156930	1.48065280
800.	.17217933E+04	.89928485E+04	3.18880460	.61053650	1.47792900
850.	.17906584E+04	.94088218E+04	3.20255560	.60950064	1.47653610
900.	.18589125E+04	.98131003E+04	3.21715560	.60943132	1.48028180
950.	.19269390E+04	.10222582E+05	3.23438290	.60967556	1.48409410
1000.	.19947307E+04	.10632373E+05	3.25246570	.61019239	1.48788920
1050.	.20566560E+04	.11037143E+05	3.27140800	.60959260	1.48753310
1100.	.21181770E+04	.11453091E+05	3.29298390	.60901661	1.48717060
1150.	.21793673E+04	.11861856E+05	3.31454160	.60897750	1.48680320
1200.	.22402925E+04	.12274658E+05	3.33695930	.60904057	1.48643060
1250.	.23010125E+04	.12679986E+05	3.36025070	.60977818	1.48605320
1300.	.23615803E+04	.13069716E+05	3.38441120	.61153270	1.48567000
1350.	.24206844E+04	.13457784E+05	3.40766180	.61294442	1.48444570
1400.	.24771593E+04	.13850506E+05	3.43179060	.61377483	1.48171660
1450.	.25333954E+04	.14241666E+05	3.45501880	.61460005	1.47896090
1500.	.25894295E+04	.14634803E+05	3.47823330	.61542611	1.47617780
1550.	.26452953E+04	.15030062E+05	3.50143670	.61625387	1.47336640
1600.	.27010264E+04	.15424008E+05	3.52375290	.61707369	1.47052660
1650.	.27566535E+04	.15816514E+05	3.54516160	.61788470	1.46765880
1700.	.28101226E+04	.16215065E+05	3.56745740	.61825173	1.46521720
1750.	.28623033E+04	.16612342E+05	3.58885250	.61835856	1.46557770
1800.	.29143078E+04	.17012091E+05	3.61024770	.61846442	1.46594130
1850.	.29661573E+04	.17414470E+05	3.63163390	.61856588	1.46630730
1900.	.30178735E+04	.17815627E+05	3.65213290	.61865209	1.46667640
1950.	.30694750E+04	.18215399E+05	3.67173120	.61872303	1.46704770
2000.	.31209021E+04	.18613067E+05	3.69044240	.61878620	1.46738480
2050.	.31703110E+04	.19017573E+05	3.71003400	.61847855	1.46682780
2100.	.32195808E+04	.19416408E+05	3.72785120	.61814306	1.46626730
2150.	.32687247E+04	.19817909E+05	3.74565930	.61780125	1.46570190
2200.	.33177579E+04	.20217794E+05	3.76258050	.61744278	1.46513210
2250.	.33666949E+04	.20620422E+05	3.77949710	.61707820	1.46455800
2300.	.34155500E+04	.21021338E+05	3.79552650	.61669766	1.46398010
2350.	.34636334E+04	.21420392E+05	3.81066210	.61617621	1.46310140
2400.	.35104716E+04	.21826895E+05	3.82668470	.61545478	1.46173250
2450.	.35572005E+04	.22231581E+05	3.84181580	.61471602	1.46035560
2500.	.36038315E+04	.22601756E+05	3.85694670	.61498699	1.45897050
2550.	.36502814E+04	.22958936E+05	3.87118830	.61548697	1.45842600
2600.	.36965425E+04	.23317133E+05	3.88543000	.61597011	1.45884450
2650.	.37427288E+04	.23676371E+05	3.89966720	.61645410	1.45926550
2700.	.37878816E+04	.24031644E+05	3.91301700	.61677199	1.45931600

2750.	.38325665E+04	.24382814E+05	3.92547760	.61701873	1.45922120
2800.	.38771632E+04	.24740137E+05	3.93882540	.61727499	1.45912600
2850.	.39216790E+04	.25093322E+05	3.95128370	.61752150	1.45903040
2900.	.39661211E+04	.25447561E+05	3.96374200	.61776765	1.45893410
2950.	.40104978E+04	.25808239E+05	3.97708520	.61802322	1.45883750
3000.	.40547451E+04	.26159318E+05	3.98865410	.61824910	1.45871490
3050.	.40978250E+04	.26516915E+05	4.00110790	.61831623	1.45819570
3100.	.41408286E+04	.26875717E+05	4.01356170	.61838242	1.45767420
3150.	.41837610E+04	.27230149E+05	4.02512610	.61843822	1.45715020
3200.	.42266291E+04	.27591398E+05	4.03757770	.61850229	1.45662380
3250.	.42694375E+04	.27953946E+05	4.05002690	.61856512	1.45609470
3300.	.43121929E+04	.28312066E+05	4.06158910	.61861804	1.45556330
3350.	.43534212E+04	.28671449E+05	4.07315120	.61845991	1.45453530
3400.	.43922499E+04	.29032135E+05	4.08471330	.61797318	1.45335080
3450.	.44309069E+04	.29388183E+05	4.09538620	.61746838	1.45251770
3500.	.44694447E+04	.29751477E+05	4.10694610	.61696997	1.45168210
3550.	.45078669E+04	.30110103E+05	4.11761870	.61646009	1.45084400
3600.	.45461784E+04	.30463923E+05	4.12740430	.61593892	1.45000350
3650.	.45843837E+04	.30825132E+05	4.13807710	.61542422	1.44916070
3700.	.46224855E+04	.31176491E+05	4.14786270	.61499656	1.44831510
3750.	.46604892E+04	.31508742E+05	4.15764610	.61496152	1.44746740
3800.	.46983976E+04	.31835307E+05	4.16654230	.61491701	1.44661690
3850.	.47362152E+04	.32168826E+05	4.17632560	.61488025	1.44576400
3900.	.47739444E+04	.32503016E+05	4.18610900	.61484297	1.44490850
3950.	.48115892E+04	.32830734E+05	4.19500520	.61480931	1.44405040
4000.	.48491537E+04	.33165604E+05	4.20478860	.61478349	1.44319000
4050.	.48866405E+04	.33501197E+05	4.21456970	.61475672	1.44232700
4100.	.49240529E+04	.33837540E+05	4.22435080	.61472926	1.44146140
4150.	.49613930E+04	.34167953E+05	4.23324470	.61469266	1.44059300
4200.	.49986656E+04	.34505813E+05	4.24302570	.61466356	1.43972230
4250.	.50357964E+04	.34844476E+05	4.25280680	.61462451	1.43933780
4300.	.50728388E+04	.35183963E+05	4.26258800	.61458173	1.43908900
4350.	.51098184E+04	.35517375E+05	4.27147960	.61452978	1.43883910
4400.	.51467384E+04	.35851539E+05	4.28037130	.61447713	1.43858840
4450.	.51836024E+04	.36193510E+05	4.29015250	.61443181	1.43833700
4500.	.52204120E+04	.36529311E+05	4.29904640	.61437767	1.43808490
4550.	.52571708E+04	.36865908E+05	4.30793810	.61432275	1.43783210
4600.	.52938802E+04	.37210493E+05	4.31771700	.61427501	1.43757840
4650.	.53305422E+04	.37548823E+05	4.32661090	.61421848	1.43732380
4700.	.53671606E+04	.37888008E+05	4.33550490	.61416137	1.43706860
4750.	.54037364E+04	.38228046E+05	4.34439660	.61410342	1.43681270
4800.	.54402729E+04	.38561609E+05	4.35240120	.61403687	1.43655590
4850.	.54767711E+04	.38903381E+05	4.36129280	.61397753	1.43629850
4900.	.55132339E+04	.39246079E+05	4.37018450	.61391735	1.43604010
4950.	.55496627E+04	.39571827E+05	4.37818680	.61400902	1.43578090
5000.	.55860597E+04	.39898819E+05	4.38707630	.61421542	1.43552070

TABLE 2t

MIXTURE PROPERTIES FOR HYDROGEN-CARBON DIOXIDE

TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL
100.	.41420203E+03	.12577512E+04	2.67521420	.88100023
150.	.55689404E+03	.20979734E+04	3.00936950	.79881846
200.	.67896144E+03	.29308256E+04	3.23312550	.74899287
250.	.78816954E+03	.36893177E+04	3.35831050	.71745461
300.	.88950265E+03	.43595513E+04	3.41942450	.69768352
350.	.98152341E+03	.49614480E+04	3.44801000	.68211991
400.	.10650886E+04	.55068076E+04	3.45983850	.66917800
450.	.11469634E+04	.60170927E+04	3.46575280	.66063326
500.	.12277710E+04	.64978151E+04	3.46870990	.65541744
550.	.13079988E+04	.69592676E+04	3.47265280	.65268730
600.	.13880442E+04	.74035399E+04	3.47659560	.65180553
650.	.14682413E+04	.78283118E+04	3.48250980	.65316313
700.	.15406829E+04	.82524683E+04	3.49039550	.65163444
750.	.16087183E+04	.86768323E+04	3.50025260	.64896038
800.	.16761495E+04	.90866482E+04	3.51208110	.64784866
850.	.17431288E+04	.95055496E+04	3.52686680	.64675723
900.	.18097891E+04	.99130512E+04	3.54263810	.64676633
950.	.18762487E+04	.10325602E+05	3.56136660	.64713024
1000.	.19424959E+04	.10738816E+05	3.58108070	.64776549
1050.	.20027882E+04	.11146988E+05	3.60178060	.64713477
1100.	.20626883E+04	.11566570E+05	3.62543770	.64653115
1150.	.21222666E+04	.11978754E+05	3.64909470	.64650729
1200.	.21815865E+04	.12395216E+05	3.67373740	.64658622
1250.	.22407062E+04	.12804071E+05	3.69936580	.64738720
1300.	.22996789E+04	.13196904E+05	3.72598000	.64928543
1350.	.23571659E+04	.13588066E+05	3.75160840	.65080367
1400.	.24119765E+04	.13984261E+05	3.77822250	.65166001
1450.	.24665445E+04	.14379019E+05	3.80385100	.65250401
1500.	.25209058E+04	.14775803E+05	3.82947940	.65334904
1550.	.25750942E+04	.15174770E+05	3.85510780	.65419546
1600.	.26291413E+04	.15572423E+05	3.87975060	.65503049
1650.	.26830764E+04	.15968680E+05	3.90340760	.65585508
1700.	.27349315E+04	.16371068E+05	3.92805030	.65621546
1750.	.27857579E+04	.16772189E+05	3.95170730	.65635433
1800.	.28364144E+04	.17175895E+05	3.97536430	.65648864
1850.	.28869225E+04	.17582307E+05	3.99902140	.65661826
1900.	.29373025E+04	.17987453E+05	4.02169270	.65673155
1950.	.29875740E+04	.18391234E+05	4.04337830	.65682873
2000.	.30376747E+04	.18793546E+05	4.06407820	.65689290
2050.	.30857248E+04	.19202868E+05	4.08576380	.65654474
2100.	.31336380E+04	.19606422E+05	4.10547790	.65616668
2150.	.31814287E+04	.20012754E+05	4.12519210	.65578200
2200.	.32291118E+04	.20417448E+05	4.14392060	.65537975
2250.	.32767004E+04	.20824974E+05	4.16264910	.65497094
2300.	.33242078E+04	.21230768E+05	4.18039180	.65454490
2350.	.33709311E+04	.21634712E+05	4.19714890	.65396289
2400.	.34163865E+04	.22046261E+05	4.21489160	.65315828
2450.	.34617317E+04	.22455993E+05	4.23164870	.65233508
2500.	.35069775E+04	.22830318E+05	4.24840570	.65259988
2550.	.35521336E+04	.23191353E+05	4.26417710	.65312817
2600.	.35972097E+04	.23553421E+05	4.27994840	.65365753
2650.	.36422147E+04	.23916567E+05	4.29571980	.65418807
2700.	.36861719E+04	.24275672E+05	4.31050540	.65453442

2750.	.37296571E+04	.24630604E+05	4.32430530	.65480225
2800.	.37730563E+04	.24991801E+05	4.33909100	.65508020
2850.	.38163769E+04	.25348790E+05	4.35289090	.65534773
2900.	.38596263E+04	.25706845E+05	4.36669080	.65561503
2950.	.39028116E+04	.26071470E+05	4.38147650	.65589232
3000.	.39458680E+04	.26426310E+05	4.39429070	.65613742
3050.	.39877378E+04	.26787795E+05	4.40809060	.65620589
3100.	.40295314E+04	.27150504E+05	4.42189050	.65627312
3150.	.40712551E+04	.27508768E+05	4.43470470	.65632942
3200.	.41129145E+04	.27873969E+05	4.44850470	.65639446
3250.	.41545149E+04	.28240499E+05	4.46230460	.65645830
3300.	.41960619E+04	.28602512E+05	4.47511880	.65651139
3350.	.42360542E+04	.28965808E+05	4.48793300	.65632993
3400.	.42736840E+04	.29330416E+05	4.50074720	.65579605
3450.	.43111909E+04	.29690312E+05	4.51257580	.65524993
3500.	.43485792E+04	.30057581E+05	4.52539000	.65471057
3550.	.43858529E+04	.30420086E+05	4.53721850	.65415896
3600.	.44230169E+04	.30777684E+05	4.54806130	.65359534
3650.	.44600750E+04	.31142803E+05	4.55988980	.65303852
3700.	.44970309E+04	.31497840E+05	4.57073260	.65257570
3750.	.45338885E+04	.31833280E+05	4.58157540	.65253571
3800.	.45706515E+04	.32162915E+05	4.59143250	.65248554
3850.	.46073233E+04	.32499614E+05	4.60227530	.65244374
3900.	.46439077E+04	.32837003E+05	4.61311810	.65240101
3950.	.46804077E+04	.33168486E+05	4.62297520	.65234837
4000.	.47168268E+04	.33507259E+05	4.63381800	.65230390
4050.	.47531681E+04	.33846781E+05	4.64466080	.65225857
4100.	.47894346E+04	.34187073E+05	4.65550360	.65221231
4150.	.48256293E+04	.34521327E+05	4.66653606	.65215627
4200.	.48617551E+04	.34863163E+05	4.67620340	.65210821
4250.	.48978149E+04	.35205821E+05	4.68704620	.65205932
4300.	.49338114E+04	.35549322E+05	4.69788900	.65200956
4350.	.49697473E+04	.35886649E+05	4.70774610	.65195020
4400.	.50056250E+04	.36224751E+05	4.71760320	.65188997
4450.	.50414475E+04	.36570782E+05	4.72844600	.65183763
4500.	.50772167E+04	.36910531E+05	4.73830310	.65177580
4550.	.51129355E+04	.37251109E+05	4.74816020	.65171310
4600.	.51486061E+04	.37599825E+05	4.75900300	.65165811
4650.	.51842305E+04	.37942150E+05	4.76886010	.65159378
4700.	.52198115E+04	.38285350E+05	4.77871720	.65152863
4750.	.52553511E+04	.38629435E+05	4.78857430	.65146277
4800.	.52908511E+04	.38966923E+05	4.79744570	.65138758
4850.	.53263137E+04	.39312782E+05	4.80730270	.65132002
4900.	.53617417E+04	.39659573E+05	4.81715980	.65125174
4950.	.53971360E+04	.39989049E+05	4.82603120	.65134697
5000.	.54324990E+04	.40319737E+05	4.83588830	.65156570

TABLE 3a

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

X .00	W .00000000			
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL
100.	.70670391E+03	.23418683E+03	.24828512	.74924819
150.	.10243700E+04	.34446120E+03	.24829930	.73840058
200.	.13015570E+04	.44224174E+03	.24831349	.73080881
250.	.15470743E+04	.52983951E+03	.24834895	.72515216
300.	.17703445E+04	.60940937E+03	.24846954	.72180819
350.	.19768114E+04	.68364786E+03	.24881000	.71944998
400.	.21699330E+04	.75426005E+03	.24952640	.71786323
450.	.23501954E+04	.82276044E+03	.25069675	.71610922
500.	.25255137E+04	.88915252E+03	.25235653	.71678351
550.	.26935313E+04	.95678415E+03	.25443479	.71628284
600.	.28535622E+04	.10232183E+04	.25686771	.71635542
650.	.30098670E+04	.10908011E+04	.25954179	.71615829
700.	.31604640E+04	.11568475E+04	.26237191	.71679021
750.	.33070968E+04	.12237310E+04	.26526588	.71687318
800.	.34505545E+04	.12894762E+04	.26815984	.71757830
850.	.35787925E+04	.13553746E+04	.27100416	.71557165
900.	.37055117E+04	.14202694E+04	.27376335	.71425407
950.	.38309416E+04	.14832589E+04	.27641615	.71392398
1000.	.39552830E+04	.15427928E+04	.27894128	.71512629
1050.	.40787155E+04	.16019704E+04	.28133873	.71630574
1100.	.42013982E+04	.16607068E+04	.28359432	.71746114
1150.	.43234743E+04	.17190240E+04	.28571514	.71859497
1200.	.44450750E+04	.17769447E+04	.28770829	.71971001
1250.	.45663184E+04	.18344511E+04	.28957376	.72080738
1300.	.46873135E+04	.18916091E+04	.29132574	.72189069
1350.	.48081622E+04	.19484038E+04	.29296424	.72296076
1400.	.49289571E+04	.20048174E+04	.29448924	.72401845
1450.	.50497876E+04	.20609688E+04	.29592204	.72506842
1500.	.51707349E+04	.21168471E+04	.29726263	.72611111
1550.	.52918766E+04	.21724873E+04	.29851810	.72714850
1600.	.54118895E+04	.22279288E+04	.29969554	.72799413
1650.	.55156613E+04	.22832122E+04	.30080206	.72666141
1700.	.56189143E+04	.23383316E+04	.30183764	.72530337
1750.	.57216998E+04	.23933840E+04	.30281649	.72392269
1800.	.58240637E+04	.24483137E+04	.30373149	.72251831
1850.	.59260505E+04	.25032238E+04	.30459684	.72109261
1900.	.60277018E+04	.25523737E+04	.30540545	.72124740
1950.	.61290565E+04	.25998771E+04	.30617859	.72179788
2000.	.62301509E+04	.26470065E+04	.30690208	.72234284
2050.	.63310209E+04	.26938718E+04	.30759011	.72288495
2100.	.64316990E+04	.27404729E+04	.30824267	.72342404
2150.	.65322172E+04	.27868086E+04	.30885976	.72396037
2200.	.66326053E+04	.28329378E+04	.30944849	.72449511
2250.	.67328919E+04	.28787999E+04	.31000175	.72502718
2300.	.68331046E+04	.29245167E+04	.31053372	.72555896
2350.	.69332701E+04	.29700907E+04	.31104442	.72609058
2400.	.70323556E+04	.30154598E+04	.31152675	.72651169
2450.	.71235240E+04	.30606881E+04	.31198780	.72612838
2500.	.72144197E+04	.31057767E+04	.31242757	.72573910
2550.	.73050617E+04	.31507267E+04	.31284606	.72534368
2600.	.73954707E+04	.31956057E+04	.31325036	.72494356
2650.	.74856640E+04	.32404181E+04	.31364048	.72453835
2700.	.75756597E+04	.32850964E+04	.31400932	.72412721

2750.	.76654752E+04	.33297113E+04	.31436397	.72371115
2800.	.77551258E+04	.33736103E+04	.31471153	.72344677
2850.	.78446284E+04	.34144107E+04	.31503781	.72380118
2900.	.79339975E+04	.34551136E+04	.31535700	.72415610
2950.	.80232473E+04	.34956505E+04	.31566200	.72451013
3000.	.81123926E+04	.35360947E+04	.31595991	.72486486
3050.	.82014463E+04	.35763762E+04	.31624363	.72521875
3100.	.82904220E+04	.36165700E+04	.31652026	.72557326
3150.	.83793323E+04	.36567552E+04	.31679689	.72592947
3200.	.84672670E+04	.36967065E+04	.31705224	.72620477
3250.	.85502318E+04	.37366540E+04	.31730759	.72606492
3300.	.86330228E+04	.37765254E+04	.31755584	.72592304
3350.	.87156491E+04	.38163215E+04	.31779701	.72577931
3400.	.87981223E+04	.38559648E+04	.31802398	.72563260
3450.	.88804514E+04	.38956167E+04	.31825096	.72548515
3500.	.89626454E+04	.39352820E+04	.31847794	.72533678
3550.	.90447148E+04	.39747988E+04	.31869073	.72518556
3600.	.91266674E+04	.40143335E+04	.31890352	.72503350
3650.	.92085119E+04	.40537222E+04	.31910213	.72487840
3700.	.92902571E+04	.40931331E+04	.31930073	.72472253
3750.	.93719115E+04	.41311203E+04	.31949934	.72482021
3800.	.94534819E+04	.41680410E+04	.31969085	.72508682
3850.	.95349770E+04	.42048508E+04	.31987527	.72535351
3900.	.96164040E+04	.42416402E+04	.32005969	.72562099
3950.	.96977699E+04	.42783224E+04	.32023702	.72588846
4000.	.97782345E+04	.43149876E+04	.32041434	.72609397
4050.	.98552088E+04	.43515496E+04	.32058458	.72604662
4100.	.99320584E+04	.43880987E+04	.32075481	.72599905
4150.	.10008790E+05	.44246378E+04	.32092504	.72595124
4200.	.10085408E+05	.44610776E+04	.32108818	.72590201
4250.	.10161922E+05	.44974189E+04	.32124423	.72585162
4300.	.10238334E+05	.45337556E+04	.32140028	.72580079
4350.	.10314651E+05	.45700899E+04	.32155632	.72574966
4400.	.10390879E+05	.46064244E+04	.32171237	.72569828
4450.	.10467023E+05	.46426653E+04	.32186132	.72564563
4500.	.10543088E+05	.46789100E+04	.32201028	.72559264
4550.	.10619080E+05	.47151600E+04	.32215923	.72553945
4600.	.10695003E+05	.47514181E+04	.32230819	.72548593
4650.	.10770862E+05	.47875876E+04	.32245005	.72543109
4700.	.10846662E+05	.48219709E+04	.32259191	.72536431
4750.	.10922407E+05	.48563352E+04	.32273377	.72530206
4800.	.10997372E+05	.48906825E+04	.32287563	.72523924
4850.	.11069944E+05	.49250141E+04	.32301749	.72517633
4900.	.11142425E+05	.49592306E+04	.32315226	.72511342
4950.	.11214819E+05	.49935357E+04	.32329412	.72505051
5000.	.11287129E+05	.50277283E+04	.32342889	.72498760

TABLE 3b

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W .010	X .00638890				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.70488376E+03	.23294646E+03	.24738839	.74858424	1.10340480
150.	.10223346E+04	.34280174E+03	.24745860	.73799357	1.06681870
200.	.12996601E+04	.44049572E+03	.24758752	.73049431	1.03607660
250.	.15454420E+04	.52821461E+03	.24775701	.72488354	1.01225910
300.	.17689692E+04	.60802147E+03	.24800602	.72154526	.99501931
350.	.19756810E+04	.68253781E+03	.24846084	.71919731	.98153293
400.	.21690156E+04	.75344681E+03	.24927541	.71761170	.97154141
450.	.23494951E+04	.82224382E+03	.25052834	.71586442	.96265227
500.	.25249617E+04	.88893535E+03	.25225637	.71651742	.95690856
550.	.26931045E+04	.95682101E+03	.25439061	.71601739	.95223737
600.	.28532720E+04	.10235066E+04	.25686891	.71608415	.94774984
650.	.30096734E+04	.10913051E+04	.25957987	.71588652	.94475101
700.	.31603128E+04	.11575705E+04	.26243981	.71649363	.94291814
750.	.33070429E+04	.12246442E+04	.26535789	.71657541	.94013307
800.	.34505943E+04	.12905731E+04	.26827141	.71727497	.93765639
850.	.35790533E+04	.13566322E+04	.27113166	.71529679	.93333081
900.	.37060123E+04	.14216651E+04	.27390385	.71401555	.92895098
950.	.38316107E+04	.14848123E+04	.27656728	.71369162	.92598342
1000.	.39561011E+04	.15445409E+04	.27910117	.71487417	.92347675
1050.	.40796802E+04	.16038865E+04	.28150589	.71604443	.92111549
1100.	.42024436E+04	.16627752E+04	.28376737	.71718431	.91981850
1150.	.43246041E+04	.17212471E+04	.28589362	.71830285	.91850487
1200.	.44462566E+04	.17793105E+04	.28789077	.71940012	.91776437
1250.	.45675202E+04	.18369357E+04	.28976017	.72048542	.91753530
1300.	.46885342E+04	.18942103E+04	.29151540	.72155657	.91730311
1350.	.48092244E+04	.19511170E+04	.29315602	.72258762	.91939846
1400.	.49298338E+04	.20076246E+04	.29468338	.72361137	.92171098
1450.	.50504669E+04	.20638649E+04	.29611810	.72462814	.92405472
1500.	.51712030E+04	.21198295E+04	.29746019	.72563713	.92642969
1550.	.52921203E+04	.21755444E+04	.29871688	.72664368	.92883670
1600.	.54119167E+04	.22310549E+04	.29989632	.72746479	.93103980
1650.	.55157111E+04	.22863970E+04	.30100351	.72614178	.93053081
1700.	.56189879E+04	.23415736E+04	.30204048	.72479541	.93001811
1750.	.57217977E+04	.23966198E+04	.30301992	.72344332	.92950176
1800.	.58241868E+04	.24515435E+04	.30393616	.72206791	.92898147
1850.	.59262003E+04	.25064402E+04	.30480234	.72067137	.92845753
1900.	.60278792E+04	.25556400E+04	.30561234	.72083478	.92792973
1950.	.61292622E+04	.26032006E+04	.30638588	.72138862	.92739787
2000.	.62303856E+04	.26503907E+04	.30711026	.72193707	.92686206
2050.	.63312861E+04	.26973141E+04	.30779886	.72248263	.92632248
2100.	.64319953E+04	.27439755E+04	.30845235	.72302540	.92577860
2150.	.65325455E+04	.27903669E+04	.30906981	.72356524	.92523072
2200.	.66329665E+04	.28365536E+04	.30965920	.72410375	.92467851
2250.	.67332871E+04	.28824720E+04	.31021303	.72463958	.92412236
2300.	.68335346E+04	.29282469E+04	.31074577	.72517515	.92356190
2350.	.69337358E+04	.29738746E+04	.31125678	.72571055	.92299714
2400.	.70328745E+04	.30192997E+04	.31173971	.72613732	.92229150
2450.	.71242175E+04	.30645817E+04	.31220112	.72577232	.92057781
2500.	.72152929E+04	.31097257E+04	.31264145	.72540147	.91885513
2550.	.73061197E+04	.31547305E+04	.31306049	.72502465	.91712346
2600.	.73967194E+04	.31996655E+04	.31346550	.72464334	.91538277
2650.	.74869169E+04	.32445310E+04	.31385601	.72423835	.913530331
2700.	.75768824E+04	.32892640E+04	.31422544	.72382429	.911551802

2750.	.76666664E+04	.33339329E+04	.31458062	.72340526	.91573397
2800.	.77562842E+04	.33778941E+04	.31492876	.72313602	.91595103
2850.	.78457530E+04	.34187904E+04	.31525562	.72347743	.91616925
2900.	.79350864E+04	.34595904E+04	.31557546	.72381935	.91638861
2950.	.80242987E+04	.35002248E+04	.31588102	.72416023	.91660905
3000.	.81134066E+04	.35407685E+04	.31617956	.72450184	.91683075
3050.	.82024200E+04	.35811495E+04	.31646383	.72484245	.91705358
3100.	.82913548E+04	.36214449E+04	.31674108	.72518364	.91727759
3150.	.83802227E+04	.36617300E+04	.31701811	.72552654	.91750287
3200.	.84681282E+04	.37017849E+04	.31727406	.72578971	.91763086
3250.	.85511372E+04	.37418347E+04	.31752979	.72564421	.91724145
3300.	.86339715E+04	.37818101E+04	.31777850	.72549663	.91685035
3350.	.87166438E+04	.38217124E+04	.31802018	.72534725	.91645781
3400.	.87991625E+04	.38614505E+04	.31824783	.72519751	.91606356
3450.	.88815384E+04	.39011356E+04	.31847525	.72505813	.91566782
3500.	.89637792E+04	.39408340E+04	.31870267	.72491769	.91527039
3550.	.90458975E+04	.39803845E+04	.31891603	.72477462	.91487143
3600.	.91278995E+04	.40199525E+04	.31912940	.72463070	.91447082
3650.	.92097943E+04	.40593751E+04	.31932873	.72448389	.91406853
3700.	.92915906E+04	.40988198E+04	.31952806	.72433628	.91366464
3750.	.93732973E+04	.41368535E+04	.31972717	.72443894	.91325915
3800.	.94549205E+04	.41738319E+04	.31991925	.72470839	.91285198
3850.	.95364683E+04	.42107006E+04	.32010430	.72497781	.91244304
3900.	.96179510E+04	.42475484E+04	.32028937	.72524833	.91203254
3950.	.96992836E+04	.42842904E+04	.32046740	.72551200	.91220488
4000.	.97797021E+04	.43210151E+04	.32064543	.72571296	.91246964
4050.	.98566803E+04	.43576353E+04	.32081623	.72566490	.91242295
4100.	.99335346E+04	.43942422E+04	.32098702	.72561671	.91237624
4150.	.10010269E+05	.44308394E+04	.32115780	.72556813	.91232927
4200.	.10086891E+05	.44673380E+04	.32132156	.72551830	.91228216
4250.	.10163409E+05	.45037391E+04	.32147831	.72546731	.91223505
4300.	.10239824E+05	.45401363E+04	.32163506	.72541575	.91218761
4350.	.10316143E+05	.45765276E+04	.32179157	.72536387	.91213986
4400.	.10392374E+05	.46129191E+04	.32194809	.72531185	.91209218
4450.	.10468520E+05	.46492218E+04	.32209781	.72525842	.91204429
4500.	.10544588E+05	.46855275E+04	.32224754	.72520489	.91199630
4550.	.10620582E+05	.47218360E+04	.32239703	.72515097	.91194808
4600.	.10696507E+05	.47581525E+04	.32254653	.72509681	.91189975
4650.	.10772368E+05	.47943852E+04	.32268923	.72504126	.91185128
4700.	.10848168E+05	.48288509E+04	.32283194	.72525227	.91180245
4750.	.10923915E+05	.48632949E+04	.32297441	.72546392	.91175360
4800.	.10998892E+05	.48977231E+04	.32311688	.72562852	.91164480
4850.	.11071512E+05	.49321357E+04	.32325935	.72564299	.91134662
4900.	.11144042E+05	.49664340E+04	.32339480	.72565651	.91104745
4950.	.11216483E+05	.50008184E+04	.32353705	.72567078	.91074741
5000.	.11288843E+05	.50350910E+04	.32367229	.72568412	.91044653

TABLE 3c

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.020	.01282457				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.70305924E+03	.23170572E+03	.24649168	.74792391	1.09653440
150.	.10202870E+04	.34113955E+03	.24661792	.73758979	1.06079850
200.	.12977458E+04	.43874373E+03	.24686157	.73018379	1.03077690
250.	.15437899E+04	.52658127E+03	.24716507	.72461925	1.00748850
300.	.17675737E+04	.60662357E+03	.24754251	.72128689	.99060789
350.	.19745305E+04	.68141706E+03	.24811169	.71894896	.97738323
400.	.21680791E+04	.75262261E+03	.24902444	.71736441	.96757966
450.	.23487764E+04	.82171622E+03	.25035994	.71562358	.95884750
500.	.25243922E+04	.88870747E+03	.25215621	.71625498	.95320312
550.	.26926610E+04	.95684773E+03	.25434643	.71575517	.94860779
600.	.28529664E+04	.10237851E+04	.25687012	.71581606	.94419172
650.	.30094644E+04	.10917995E+04	.25961796	.71561765	.94123957
700.	.31601482E+04	.11582847E+04	.26250771	.71619979	.93942984
750.	.33069757E+04	.12255489E+04	.26544991	.71628019	.93668481
800.	.34506214E+04	.12916615E+04	.26838298	.71697426	.93424351
850.	.35793015E+04	.13578819E+04	.27125918	.71502417	.92999090
900.	.37065000E+04	.14230530E+04	.27404437	.71377903	.92568437
950.	.38322676E+04	.14863584E+04	.27671843	.71346116	.92276397
1000.	.39569068E+04	.15462823E+04	.27926107	.71462371	.92029569
1050.	.40806326E+04	.16057966E+04	.28167306	.71578442	.91796991
1100.	.42034768E+04	.16648374E+04	.28394043	.71690905	.91668872
1150.	.43257215E+04	.17234651E+04	.28607211	.71801175	.91539099
1200.	.44474258E+04	.17816710E+04	.28807326	.71909145	.91465723
1250.	.45687100E+04	.18394149E+04	.28994658	.72016476	.91442669
1300.	.46897433E+04	.18968069E+04	.29170506	.72122354	.91419285
1350.	.48102761E+04	.19538258E+04	.29334781	.72221581	.91624519
1400.	.49307023E+04	.20104277E+04	.29487753	.72320596	.91851075
1450.	.50511393E+04	.20667569E+04	.29631418	.72418971	.92080675
1500.	.51716666E+04	.21228077E+04	.29765776	.72516535	.92313316
1550.	.52923605E+04	.21785973E+04	.29891567	.72614126	.92549072
1600.	.54119415E+04	.22341767E+04	.30009710	.72693798	.92764797
1650.	.55157592E+04	.22895777E+04	.30120497	.72562464	.92714473
1700.	.56190606E+04	.23448109E+04	.30224332	.72429017	.92663780
1750.	.57218952E+04	.23998510E+04	.30322337	.72296667	.92612711
1800.	.58243104E+04	.24547692E+04	.30414084	.72162002	.92561256
1850.	.59263504E+04	.25096521E+04	.30500784	.72025254	.92509437
1900.	.60280570E+04	.25589018E+04	.30581925	.72042459	.92457225
1950.	.61294680E+04	.26065198E+04	.30659317	.72098167	.92404618
2000.	.62306210E+04	.26537709E+04	.30731845	.72153353	.92351612
2050.	.63315511E+04	.27007522E+04	.30800762	.72208249	.92298225
2100.	.64322919E+04	.27474743E+04	.30866203	.72262885	.92244427
2150.	.65328739E+04	.27939213E+04	.30927987	.72317223	.92190216
2200.	.66333262E+04	.28401656E+04	.30986993	.72371424	.92135565
2250.	.67336787E+04	.28861407E+04	.31042431	.72425349	.92080507
2300.	.68339599E+04	.29319736E+04	.31095783	.72479278	.92025041
2350.	.69341958E+04	.29776553E+04	.31146916	.72533180	.91969145
2400.	.70333859E+04	.30231363E+04	.31195268	.72576400	.91899419
2450.	.71249008E+04	.30684722E+04	.31241444	.72541696	.91730785
2500.	.72161528E+04	.31136713E+04	.31285534	.72506429	.91561260
2550.	.73071627E+04	.31587308E+04	.31327494	.72470591	.91390851
2600.	.73979501E+04	.32037218E+04	.31368065	.72434307	.91219555
2650.	.74881521E+04	.32486401E+04	.31407155	.72393845	.91211513
2700.	.75780868E+04	.32934278E+04	.31444158	.72352140	.91232363

2750.	.76678404E+04	.33381503E+04	.31479727	.72309961	.91253346
2800.	.77574250E+04	.33821747E+04	.31514600	.72282528	.91274419
2850.	.78468595E+04	.34231658E+04	.31547344	.72315390	.91295621
2900.	.79361574E+04	.34640635E+04	.31579392	.72348275	.91316920
2950.	.80253342E+04	.35047950E+04	.31610005	.72381080	.91338344
3000.	.81144024E+04	.35454382E+04	.31639922	.72413912	.91359870
3050.	.82033776E+04	.35859190E+04	.31668403	.72446661	.91381523
3100.	.82922716E+04	.36263156E+04	.31696191	.72479466	.91403286
3150.	.83810974E+04	.36667008E+04	.31723933	.72512425	.91425158
3200.	.84689728E+04	.37068591E+04	.31749589	.72537529	.91437494
3250.	.85520246E+04	.37470106E+04	.31775200	.72522423	.91399059
3300.	.86349046E+04	.37870897E+04	.31800116	.72507118	.91360480
3350.	.87176210E+04	.38270982E+04	.31824337	.72491607	.91321732
3400.	.88001863E+04	.38669307E+04	.31847168	.72476346	.91282837
3450.	.88826083E+04	.39066492E+04	.31869954	.72463201	.91243773
3500.	.89648975E+04	.39463798E+04	.31892740	.72449980	.91204562
3550.	.90470644E+04	.39859638E+04	.31914134	.72436488	.91165195
3600.	.91291153E+04	.40255650E+04	.31935529	.72422907	.91125657
3650.	.92110601E+04	.40650217E+04	.31955535	.72409047	.91085956
3700.	.92929062E+04	.41044999E+04	.31975540	.72395102	.91046097
3750.	.93746642E+04	.41425795E+04	.31995501	.72405869	.91006062
3800.	.94563408E+04	.41796157E+04	.32014765	.72433099	.90965889
3850.	.95379426E+04	.42165431E+04	.32033335	.72460331	.90925539
3900.	.96194791E+04	.42534493E+04	.32051905	.72487670	.90885026
3950.	.97007809E+04	.42902511E+04	.32069779	.72513678	.90901783
4000.	.97811541E+04	.43270360E+04	.32087654	.72533318	.90927634
4050.	.98581383E+04	.43637132E+04	.32104789	.72528471	.90922925
4100.	.99349972E+04	.44003784E+04	.32121923	.72523583	.90918212
4150.	.10011736E+05	.44370334E+04	.32139057	.72518667	.90913462
4200.	.10088364E+05	.44735909E+04	.32155496	.72513635	.90908726
4250.	.10164886E+05	.45100521E+04	.32171241	.72508472	.90903966
4300.	.10241304E+05	.45465086E+04	.32186985	.72503258	.90899171
4350.	.10317627E+05	.45829570E+04	.32202684	.72498013	.90894349
4400.	.10393859E+05	.46194058E+04	.32218383	.72492728	.90889513
4450.	.10470007E+05	.46557693E+04	.32233432	.72487322	.90884661
4500.	.10546076E+05	.46921367E+04	.32248481	.72481888	.90879799
4550.	.10622073E+05	.47285037E+04	.32263484	.72476432	.90874926
4600.	.10697999E+05	.47648790E+04	.32278489	.72470935	.90870022
4650.	.10773861E+05	.48011738E+04	.32292842	.72465318	.90865116
4700.	.10849663E+05	.48357226E+04	.32307197	.72486000	.90860174
4750.	.10925411E+05	.48702466E+04	.32321505	.72506743	.90855230
4800.	.11000400E+05	.49047554E+04	.32335814	.72522858	.90844409
4850.	.11073066E+05	.49392485E+04	.32350123	.72524198	.90814988
4900.	.11145643E+05	.49736296E+04	.32363736	.72525432	.90785471
4950.	.11218134E+05	.50080925E+04	.32378000	.72526763	.90755895
5000.	.11290542E+05	.50424446E+04	.32391569	.72527989	.90726215

TABLE 3d

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.030	.01930755				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.70123057E+03	.23046463E+03	.24559497	.74726737	1.08967840
150.	.10182272E+04	.33947449E+03	.24577724	.73718961	1.05478130
200.	.12958144E+04	.43698574E+03	.24613561	.72987750	1.02547480
250.	.15421182E+04	.52493946E+03	.24657314	.72435956	1.00271330
300.	.17661579E+04	.60521557E+03	.24707901	.72103323	.98619076
350.	.19733599E+04	.68028540E+03	.24776254	.71870520	.97322783
400.	.21671233E+04	.75178740E+03	.24877346	.71712130	.96361249
450.	.23480394E+04	.82117773E+03	.25019154	.71538665	.95503752
500.	.25238055E+04	.88846898E+03	.25205606	.71599626	.94949282
550.	.26922015E+04	.95686388E+03	.25430225	.71549663	.94497374
600.	.28526455E+04	.10240536E+04	.25687133	.71555125	.94062933
650.	.30092415E+04	.10922844E+04	.25965605	.71535193	.93772435
700.	.31599704E+04	.11589895E+04	.26257561	.71590911	.93593803
750.	.33068965E+04	.12264447E+04	.26554192	.71598796	.93323336
800.	.34506362E+04	.12927417E+04	.26849455	.71667604	.93082736
850.	.35795381E+04	.13591234E+04	.27138669	.71475407	.92664755
900.	.37069758E+04	.14244334E+04	.27418488	.71354455	.92241392
950.	.38329126E+04	.14878971E+04	.27686958	.71323272	.91954059
1000.	.39577009E+04	.15480170E+04	.27942097	.71437497	.91711055
1050.	.40815733E+04	.16077000E+04	.28184022	.71552621	.91482019
1100.	.42044984E+04	.16668938E+04	.28411349	.71663515	.91355478
1150.	.43268270E+04	.17256769E+04	.28625060	.71772230	.91227293
1200.	.44485837E+04	.17840261E+04	.28825576	.71878421	.91154602
1250.	.45698890E+04	.18418891E+04	.29013299	.71984545	.91131418
1300.	.46909416E+04	.18993984E+04	.29189472	.72089194	.91107888
1350.	.48113189E+04	.19565297E+04	.29353961	.72184572	.91308886
1400.	.49315639E+04	.20132262E+04	.29507169	.72280243	.91530814
1450.	.50518064E+04	.20696443E+04	.29651026	.72375354	.91755692
1500.	.51721266E+04	.21257815E+04	.29785534	.72469607	.91983552
1550.	.52925993E+04	.21816458E+04	.29911446	.72564157	.92214424
1600.	.54119661E+04	.22372941E+04	.30029789	.72641410	.92425622
1650.	.55158084E+04	.22927538E+04	.30140643	.72511060	.92375878
1700.	.56191351E+04	.23480438E+04	.30244617	.72378794	.92325766
1750.	.57219948E+04	.24030776E+04	.30342681	.72249293	.92275271
1800.	.58244356E+04	.24579897E+04	.30434551	.72117503	.92224381
1850.	.59265027E+04	.25128597E+04	.30521335	.71983632	.92173136
1900.	.60282372E+04	.25621591E+04	.30602615	.72001703	.92121503
1950.	.61296769E+04	.26098349E+04	.30680048	.72057730	.92069476
2000.	.62308584E+04	.26571470E+04	.30752664	.72113244	.92017026
2050.	.63318189E+04	.27041864E+04	.30821638	.72168482	.91964218
2100.	.64325902E+04	.27509694E+04	.30887171	.72223453	.91910991
2150.	.65332029E+04	.27974724E+04	.30948993	.72278121	.91857354
2200.	.66336850E+04	.28437745E+04	.31008065	.72332644	.91803232
2250.	.67340691E+04	.28898059E+04	.31063559	.72386920	.91748731
2300.	.68343817E+04	.29356970E+04	.31116989	.72441188	.91693798
2350.	.69346506E+04	.29814325E+04	.31168152	.72495432	.91638464
2400.	.70338905E+04	.30269698E+04	.31216564	.72539174	.91569556
2450.	.71255750E+04	.30723589E+04	.31262776	.72506258	.91403622
2500.	.72170023E+04	.31176130E+04	.31306924	.72472798	.91236811
2550.	.73081928E+04	.31627275E+04	.31348939	.72438770	.91069117
2600.	.73991660E+04	.32077745E+04	.31389579	.72404310	.90900551
2650.	.74893712E+04	.32527457E+04	.31428708	.72363867	.90892388
2700.	.75792768E+04	.32975884E+04	.31465772	.72321879	.90912647

2750.	.76689985E+04	.33423645E+04	.31501393	.72279408	.90933011
2800.	.77585508E+04	.33864510E+04	.31536325	.72251501	.90953477
2850.	.78479512E+04	.34275380E+04	.31569125	.72283064	.90974054
2900.	.79372145E+04	.34685325E+04	.31601239	.72314677	.90994743
2950.	.80263536E+04	.35093619E+04	.31631907	.72346163	.91015526
3000.	.81153850E+04	.35501040E+04	.31661888	.72377713	.91036429
3050.	.82043206E+04	.35906845E+04	.31690425	.72409146	.91057450
3100.	.82931738E+04	.36311823E+04	.31718274	.72440634	.91078574
3150.	.83819574E+04	.36716677E+04	.31746055	.72472266	.91099812
3200.	.84698032E+04	.37119282E+04	.31771772	.72496189	.91111683
3250.	.85528989E+04	.37521815E+04	.31797422	.72480536	.91073770
3300.	.86358224E+04	.37923646E+04	.31822382	.72464664	.91035697
3350.	.87185833E+04	.38324782E+04	.31846656	.72448610	.90997454
3400.	.88011946E+04	.38724050E+04	.31869553	.72433056	.90959080
3450.	.88836638E+04	.39121564E+04	.31892383	.72420724	.90920549
3500.	.89660014E+04	.39519198E+04	.31915213	.72408311	.90881862
3550.	.90482153E+04	.39915373E+04	.31936665	.72395620	.90843005
3600.	.91303158E+04	.40311707E+04	.31958119	.72382871	.90803995
3650.	.92123107E+04	.40706614E+04	.31978197	.72369831	.90764821
3700.	.92942082E+04	.41101726E+04	.31998274	.72356722	.90725497
3750.	.93760178E+04	.41482987E+04	.32018284	.72367980	.90685996
3800.	.94577456E+04	.41853922E+04	.32037606	.72395490	.90646336
3850.	.95394017E+04	.42223781E+04	.32056240	.72423014	.90606528
3900.	.96209919E+04	.42593436E+04	.32074873	.72450621	.90566548
3950.	.97022637E+04	.42962044E+04	.32092819	.72476297	.90582849
4000.	.97825927E+04	.43330488E+04	.32110764	.72495495	.90608081
4050.	.98595838E+04	.43697838E+04	.32127955	.72490602	.90603352
4100.	.99364489E+04	.44065064E+04	.32145144	.72485672	.90598608
4150.	.10013196E+05	.44432195E+04	.32162334	.72480720	.90593847
4200.	.10089828E+05	.44798361E+04	.32178836	.72475624	.90589067
4250.	.10166357E+05	.45163567E+04	.32194650	.72470427	.90584282
4300.	.10242777E+05	.45528731E+04	.32210465	.72465145	.90579423
4350.	.10319101E+05	.45893791E+04	.32226210	.72459803	.90574531
4400.	.10395336E+05	.46258844E+04	.32241956	.72454460	.90569643
4450.	.10471486E+05	.46623091E+04	.32257082	.72448988	.90564732
4500.	.10547557E+05	.46987379E+04	.32272208	.72443485	.90559810
4550.	.10623553E+05	.47351630E+04	.32287266	.72437945	.90554856
4600.	.10699481E+05	.47715966E+04	.32302324	.72432380	.90549897
4650.	.10775343E+05	.48079544E+04	.32316762	.72426683	.90544924
4700.	.10851147E+05	.48425856E+04	.32331200	.72446958	.90539932
4750.	.10926895E+05	.48771898E+04	.32345570	.72467272	.90534919
4800.	.11001896E+05	.49117788E+04	.32359940	.72483046	.90524142
4850.	.11074609E+05	.49463533E+04	.32374310	.72484272	.90495129
4900.	.11147233E+05	.49808171E+04	.32387992	.72485394	.90466020
4950.	.11219771E+05	.50153579E+04	.32402294	.72486613	.90436842
5000.	.11292228E+05	.50497910E+04	.32415909	.72487718	.90407573

TABLE 3e

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W .040	X .02583834				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.69939758E+03	.22922314E+03	.24469826	.74661471	1.08283670
150.	.10161554E+04	.33780657E+03	.24493655	.73679321	1.04876730
200.	.12938655E+04	.43522174E+03	.24540966	.72957543	1.02017020
250.	.15404265E+04	.52328908E+03	.24598120	.72410444	.99793306
300.	.17647218E+04	.60379740E+03	.24661550	.72078438	.98176823
350.	.19721690E+04	.67914284E+03	.24741339	.71846595	.96906665
400.	.21661480E+04	.75094087E+03	.24852249	.71688266	.95963973
450.	.23472835E+04	.82062794E+03	.25002315	.71515382	.95122202
500.	.25232009E+04	.88821919E+03	.25195590	.71574151	.94577738
550.	.26917248E+04	.95686970E+03	.25425807	.71524132	.94133484
600.	.28523086E+04	.10243118E+04	.25687255	.71528979	.93706241
650.	.30090033E+04	.10927596E+04	.25969414	.71508913	.93420484
700.	.31597790E+04	.11596849E+04	.26264351	.71562149	.93244255
750.	.33068038E+04	.12273316E+04	.26563394	.71569844	.92977824
800.	.34506385E+04	.12938130E+04	.26860612	.71638065	.92740777
850.	.35797620E+04	.13603569E+04	.27151421	.71448621	.92330045
900.	.37074390E+04	.14258059E+04	.27432540	.71331209	.91913946
950.	.38335451E+04	.14894284E+04	.27702073	.71300600	.91631302
1000.	.39584827E+04	.15497443E+04	.27958086	.71412806	.91392126
1050.	.40825014E+04	.16095969E+04	.28200740	.71526951	.91166599
1100.	.42055077E+04	.16689438E+04	.28428655	.71636276	.91041655
1150.	.43279201E+04	.17278827E+04	.28642910	.71743423	.90915051
1200.	.44497288E+04	.17863755E+04	.28843824	.71847822	.90843046
1250.	.45710564E+04	.18443580E+04	.29031940	.71952749	.90819759
1300.	.46921283E+04	.19019845E+04	.29208439	.72056181	.90796083
1350.	.48123516E+04	.19592286E+04	.29373140	.72147716	.90992909
1400.	.49324168E+04	.20160195E+04	.29526584	.72240080	.91210260
1450.	.50524675E+04	.20725268E+04	.29670634	.72331952	.91430511
1500.	.51725826E+04	.21287503E+04	.29805291	.72422923	.91653649
1550.	.52928349E+04	.21846894E+04	.29931325	.72514454	.91879683
1600.	.54119897E+04	.22404063E+04	.30049868	.72589320	.92086414
1650.	.55158567E+04	.22959245E+04	.30160789	.72459956	.92037266
1700.	.56192091E+04	.23512713E+04	.30264901	.72328871	.91987739
1750.	.57220944E+04	.24062992E+04	.30363025	.72202197	.91937816
1800.	.58245619E+04	.24612053E+04	.30455020	.72073280	.91887506
1850.	.59266562E+04	.25160617E+04	.30541885	.71942293	.91836840
1900.	.60284188E+04	.25654117E+04	.30623305	.71961198	.91785780
1950.	.61298869E+04	.26131451E+04	.30700777	.72017543	.91734320
2000.	.62310977E+04	.26605185E+04	.30773483	.72073383	.91682442
2050.	.63320879E+04	.27076162E+04	.30842514	.72128945	.91630198
2100.	.64328901E+04	.27544602E+04	.30908141	.72184259	.91577545
2150.	.65335329E+04	.28010195E+04	.30969999	.72239232	.91524456
2200.	.66340435E+04	.28473792E+04	.31029137	.72294073	.91470861
2250.	.67344568E+04	.28934675E+04	.31084689	.72348657	.91416870
2300.	.68347994E+04	.29394168E+04	.31138196	.72403246	.91362466
2350.	.69350994E+04	.29852058E+04	.31189390	.72457821	.91307662
2400.	.70343870E+04	.30307991E+04	.31237862	.72502070	.91239531
2450.	.71262399E+04	.30762423E+04	.31284108	.72470900	.91076261
2500.	.72178402E+04	.31215515E+04	.31328313	.72439218	.90912125
2550.	.73092089E+04	.31667208E+04	.31370384	.72406976	.90747113
2600.	.74003653E+04	.32118235E+04	.31411094	.72374328	.90581229
2650.	.74905741E+04	.32568473E+04	.31450262	.72333913	.90572972
2700.	.75804499E+04	.33017447E+04	.31487385	.72291640	.90592619

2750.	.76701401E+04	.33465743E+04	.31523058	.72248887	.90612374
2800.	.77596598E+04	.33907231E+04	.31558048	.72220497	.90632228
2850.	.78490263E+04	.34319053E+04	.31590907	.72250784	.90652196
2900.	.79382541E+04	.34729974E+04	.31623085	.72281102	.90672264
2950.	.80273569E+04	.35139243E+04	.31653810	.72311298	.90692440
3000.	.81163507E+04	.35547659E+04	.31683854	.72341548	.90712723
3050.	.82052466E+04	.35954457E+04	.31712445	.72371675	.90733109
3100.	.82940599E+04	.36360453E+04	.31740356	.72401850	.90753609
3150.	.83828019E+04	.36766289E+04	.31768177	.72432202	.90774221
3200.	.84706181E+04	.37169926E+04	.31793955	.72454933	.90785641
3250.	.85537563E+04	.37573474E+04	.31819642	.72438726	.90748222
3300.	.86367243E+04	.37976334E+04	.31844648	.72422324	.90710670
3350.	.87195312E+04	.38378521E+04	.31868974	.72405737	.90672955
3400.	.88021878E+04	.38778730E+04	.31891938	.72389895	.90635085
3450.	.88847037E+04	.39176574E+04	.31914812	.72378365	.90597076
3500.	.89670874E+04	.39574526E+04	.31937686	.72366759	.90558895
3550.	.90493501E+04	.39971032E+04	.31959197	.72354889	.90520565
3600.	.91314990E+04	.40367694E+04	.31980708	.72342948	.90482072
3650.	.92135448E+04	.40762936E+04	.32000859	.72330741	.90443432
3700.	.92954931E+04	.41158379E+04	.32021008	.72318457	.90404632
3750.	.93773546E+04	.41540102E+04	.32041068	.72330214	.90365663
3800.	.94591344E+04	.41911611E+04	.32060446	.72358005	.90326531
3850.	.95408440E+04	.42282053E+04	.32079144	.72385818	.90287252
3900.	.96224888E+04	.42652292E+04	.32097842	.72413721	.90247811
3950.	.97037309E+04	.43021496E+04	.32115858	.72439052	.90263662
4000.	.97840173E+04	.43390534E+04	.32133875	.72457826	.90288295
4050.	.98610148E+04	.43758464E+04	.32151121	.72452881	.90283544
4100.	.99378885E+04	.44126268E+04	.32168366	.72447919	.90278790
4150.	.10014642E+05	.44493974E+04	.32185611	.72442926	.90274007
4200.	.10091282E+05	.44860726E+04	.32202176	.72437800	.90269216
4250.	.10167818E+05	.45226529E+04	.32218060	.72432569	.90264409
4300.	.10244242E+05	.45592291E+04	.32233943	.72427224	.90259506
4350.	.10320567E+05	.45957917E+04	.32249736	.72421811	.90254546
4400.	.10396803E+05	.46323549E+04	.32265530	.72416375	.90249589
4450.	.10472954E+05	.46688399E+04	.32280732	.72410840	.90244615
4500.	.10549026E+05	.47053295E+04	.32295935	.72405269	.90239623
4550.	.10625024E+05	.47418133E+04	.32311047	.72399653	.90234619
4600.	.10700952E+05	.47783052E+04	.32326160	.72394011	.90229589
4650.	.10776815E+05	.48147251E+04	.32340681	.72388251	.90224550
4700.	.10852620E+05	.48494391E+04	.32355203	.72408110	.90219493
4750.	.10928368E+05	.48841238E+04	.32369634	.72427990	.90214415
4800.	.11003379E+05	.49187930E+04	.32384066	.72443412	.90203680
4850.	.11076138E+05	.49534486E+04	.32398498	.72444524	.90175065
4900.	.11148808E+05	.49879948E+04	.32412247	.72445526	.90146351
4950.	.11221394E+05	.50226143E+04	.32426589	.72446639	.90117576
5000.	.11293898E+05	.50571273E+04	.32440249	.72447624	.90088699

TABLE 3f

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.050	.03241748				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.69756036E+03	.22798129E+03	.24380155	.74596599	1.07600930
150.	.10140710E+04	.33613583E+03	.24409587	.73640034	1.04275620
200.	.12918989E+04	.43345158E+03	.24468370	.72927776	1.01486310
250.	.15387144E+04	.52163000E+03	.24538926	.72385403	.99314781
300.	.17632648E+04	.60236887E+03	.24615200	.72054047	.97733998
350.	.19709572E+04	.67798901E+03	.24706423	.71823143	.96489958
400.	.21651527E+04	.75008293E+03	.24827152	.71664842	.95566136
450.	.23465087E+04	.82006669E+03	.24985475	.71492519	.94740118
500.	.25225781E+04	.88795843E+03	.25185576	.71549049	.94205688
550.	.26912312E+04	.95686453E+03	.25421391	.71498982	.93769131
600.	.28519557E+04	.10245598E+04	.25687376	.71503154	.93349111
650.	.30087496E+04	.10932246E+04	.25973224	.71482956	.93068113
700.	.31595736E+04	.11603709E+04	.26271141	.71533682	.92894343
750.	.33066977E+04	.12282093E+04	.26572596	.71541179	.92631959
800.	.34506273E+04	.12948756E+04	.26871769	.71608777	.92398460
850.	.35799734E+04	.13615816E+04	.27164173	.71422099	.91994974
900.	.37078889E+04	.14271702E+04	.27446592	.71308180	.91586090
950.	.38341647E+04	.14909519E+04	.27717188	.71278127	.91308136
1000.	.39592516E+04	.15514643E+04	.27974076	.71388300	.91072773
1050.	.40834169E+04	.16114865E+04	.28217457	.71501461	.90850758
1100.	.42065042E+04	.16709871E+04	.28445961	.71609200	.90727395
1150.	.43289999E+04	.17300827E+04	.28660759	.71714733	.90602372
1200.	.44508615E+04	.17887187E+04	.28862074	.71817379	.90531065
1250.	.45722111E+04	.18468208E+04	.29050582	.71921103	.90507681
1300.	.46933030E+04	.19045653E+04	.29227405	.72023290	.90483886
1350.	.48133740E+04	.19619219E+04	.29392318	.72111030	.90676592
1400.	.49332614E+04	.20188077E+04	.29545998	.72200106	.90889454
1450.	.50531221E+04	.20754043E+04	.29690242	.72288763	.91105126
1500.	.51730341E+04	.21317143E+04	.29825048	.72376485	.91323611
1550.	.52930674E+04	.21877282E+04	.29951204	.72465007	.91544860
1600.	.54120112E+04	.22435138E+04	.30069947	.72537498	.91747173
1650.	.55159042E+04	.22990902E+04	.30180936	.72409142	.91698629
1700.	.56192841E+04	.23544934E+04	.30285186	.72279268	.91649722
1750.	.57221947E+04	.24095155E+04	.30383369	.72155398	.91600366
1800.	.58246886E+04	.24644156E+04	.30475487	.72029336	.91550631
1850.	.59268101E+04	.25192590E+04	.30562436	.71901201	.91500533
1900.	.60286015E+04	.25686591E+04	.30643995	.71920960	.91450054
1950.	.61300982E+04	.26164503E+04	.30721508	.71977617	.91399158
2000.	.62313375E+04	.26638851E+04	.30794302	.72033767	.91347845
2050.	.63323574E+04	.27110416E+04	.30863391	.72089642	.91296161
2100.	.64331908E+04	.27579466E+04	.30929109	.72145287	.91244086
2150.	.65338626E+04	.28045620E+04	.30991006	.72200568	.91191526
2200.	.66344005E+04	.28509802E+04	.31050209	.72255682	.91138430
2250.	.67348413E+04	.28971247E+04	.31105817	.72310570	.91084938
2300.	.68352132E+04	.29431322E+04	.31159402	.72365471	.91031045
2350.	.69355421E+04	.29889754E+04	.31210627	.72420338	.90976732
2400.	.70348761E+04	.30346245E+04	.31259158	.72465077	.90909377
2450.	.71268941E+04	.30801217E+04	.31305441	.72435631	.90748711
2500.	.72186657E+04	.31254862E+04	.31349703	.72405701	.90587210
2550.	.73102092E+04	.31707099E+04	.31391829	.72375221	.90424823
2600.	.74015468E+04	.32158683E+04	.31432609	.72344355	.90261585
2650.	.74917590E+04	.32609450E+04	.31471815	.72303964	.90253213
2700.	.75816053E+04	.33058966E+04	.31508999	.72261422	.90272277

2750.	.76712635E+04	.33507799E+04	.31544723	.72218375	.90291435
2800.	.77607511E+04	.33949907E+04	.31579773	.72189520	.90310695
2850.	.78500839E+04	.34362687E+04	.31612688	.72218522	.90330048
2900.	.79392767E+04	.34774577E+04	.31644931	.72247567	.90349513
2950.	.80283435E+04	.35184819E+04	.31675712	.72276480	.90369078
3000.	.81172997E+04	.35594231E+04	.31705820	.72305436	.90388752
3050.	.82061566E+04	.36002025E+04	.31734466	.72334261	.90408524
3100.	.82949285E+04	.36409030E+04	.31762439	.72363136	.90428391
3150.	.83836293E+04	.36815863E+04	.31790299	.72392185	.90448379
3200.	.84714160E+04	.37220516E+04	.31816138	.72413756	.90459350
3250.	.85545985E+04	.37625070E+04	.31841864	.72397037	.90422454
3300.	.86376100E+04	.38028961E+04	.31866915	.72380094	.90385400
3350.	.87204611E+04	.38432199E+04	.31891293	.72362963	.90348198
3400.	.88031635E+04	.38833343E+04	.31914324	.72346851	.90310844
3450.	.88857260E+04	.39231511E+04	.31937241	.72336130	.90273347
3500.	.89681568E+04	.39629783E+04	.31960159	.72325329	.90235685
3550.	.90504683E+04	.40026623E+04	.31981728	.72314271	.90197878
3600.	.91326663E+04	.40423607E+04	.32003298	.72303156	.90159909
3650.	.92147608E+04	.40819185E+04	.32023521	.72291761	.90121780
3700.	.92967607E+04	.41214953E+04	.32043742	.72280320	.90083512
3750.	.93786730E+04	.41597136E+04	.32063852	.72292568	.90045063
3800.	.94605063E+04	.41969222E+04	.32083287	.72320647	.90006474
3850.	.95422689E+04	.42340248E+04	.32102048	.72348742	.89967721
3900.	.96239674E+04	.42711068E+04	.32120810	.72376935	.89928800
3950.	.97051811E+04	.43080865E+04	.32138898	.72401939	.89944214
4000.	.97854267E+04	.43450496E+04	.32156985	.72420303	.89968278
4050.	.98624328E+04	.43818999E+04	.32174287	.72415332	.89963517
4100.	.99393139E+04	.44187377E+04	.32191587	.72410335	.89958756
4150.	.10016076E+05	.44555664E+04	.32208888	.72405310	.89953970
4200.	.10092725E+05	.44922999E+04	.32225516	.72400168	.89949173
4250.	.10169269E+05	.45289402E+04	.32241469	.72394899	.89944364
4300.	.10245695E+05	.45655759E+04	.32257422	.72389487	.89939397
4350.	.10322022E+05	.46021954E+04	.32273262	.72384001	.89934380
4400.	.10398259E+05	.46388151E+04	.32289103	.72378493	.89929351
4450.	.10474411E+05	.46753616E+04	.32304382	.72372876	.89924311
4500.	.10550484E+05	.47119127E+04	.32319662	.72367229	.89919258
4550.	.10626482E+05	.47484539E+04	.32334828	.72361544	.89914181
4600.	.10702411E+05	.47850041E+04	.32349996	.72355831	.89909089
4650.	.10778275E+05	.48214864E+04	.32364601	.72350003	.89903990
4700.	.10854079E+05	.48562833E+04	.32379206	.72369429	.89898859
4750.	.10929827E+05	.48910477E+04	.32393699	.72388891	.89893713
4800.	.11004848E+05	.49257976E+04	.32408191	.72403951	.898883017
4850.	.11077653E+05	.49605340E+04	.32422684	.72404954	.89854798
4900.	.11150369E+05	.49951625E+04	.32436503	.72405846	.89826476
4950.	.11223002E+05	.50298610E+04	.32450883	.72406835	.89798101
5000.	.11295552E+05	.50644541E+04	.32464589	.72407695	.89769609

TABLE 3g

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.060	.03904551				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.69571891E+03	.22673907E+03	.24290483	.74532139	1.06919630
150.	.10119745E+04	.33446223E+03	.24325519	.73601147	1.03674840
200.	.12899149E+04	.43167537E+03	.24395774	.72898465	1.00955360
250.	.15369823E+04	.51996218E+03	.24479733	.72360870	.98835762
300.	.17617873E+04	.60092992E+03	.24568848	.72030169	.97290627
350.	.19697248E+04	.67682404E+03	.24671508	.71800169	.96072673
400.	.21641379E+04	.74921336E+03	.24802054	.71641895	.95167758
450.	.23457148E+04	.81949390E+03	.24968635	.71470081	.94357488
500.	.25219375E+04	.88768632E+03	.25175560	.71524351	.93833136
550.	.26907208E+04	.95684859E+03	.25416973	.71474189	.93404312
600.	.28515871E+04	.10247972E+04	.25687497	.71477688	.92991542
650.	.30084811E+04	.10936797E+04	.25977033	.71457312	.92715331
700.	.31593547E+04	.11610469E+04	.26277931	.71505555	.92544067
750.	.33065785E+04	.12290776E+04	.26581797	.71512814	.92285738
800.	.34506039E+04	.12959294E+04	.26882926	.71579770	.92055804
850.	.35801724E+04	.13627980E+04	.27176924	.71395814	.91659535
900.	.37083260E+04	.14285266E+04	.27460643	.71285343	.91257825
950.	.38347718E+04	.14924675E+04	.27732303	.71255856	.90984543
1000.	.39600086E+04	.15531767E+04	.27990066	.71363998	.90752995
1050.	.40843200E+04	.16133690E+04	.28234173	.71476140	.90534475
1100.	.42074882E+04	.16730237E+04	.28463267	.71582285	.90412699
1150.	.43300675E+04	.17322760E+04	.28678608	.71686209	.90289250
1200.	.44519817E+04	.17910558E+04	.28880323	.71787076	.90218647
1250.	.45733549E+04	.18492782E+04	.29069223	.71889599	.90195213
1300.	.46944670E+04	.19071406E+04	.29246371	.71990560	.90171303
1350.	.48143866E+04	.19646102E+04	.29411498	.72074511	.90359950
1400.	.49340984E+04	.20215907E+04	.29565414	.72160333	.90568369
1450.	.50537710E+04	.20782767E+04	.29709850	.72245803	.90779538
1500.	.51734823E+04	.21346732E+04	.29844806	.72330307	.90993441
1550.	.52932979E+04	.21907620E+04	.29971083	.72415839	.91209960
1600.	.54120329E+04	.22466158E+04	.30090025	.72486003	.91407924
1650.	.55159523E+04	.23022505E+04	.30201082	.72358642	.91359986
1700.	.56193593E+04	.23577103E+04	.30305471	.72229963	.91311692
1750.	.57222962E+04	.24127265E+04	.30403714	.72108898	.91262911
1800.	.58248168E+04	.24676211E+04	.30495955	.71985666	.91213747
1850.	.59269667E+04	.25224511E+04	.30582986	.71860394	.91164234
1900.	.60287869E+04	.25719013E+04	.30664686	.71881004	.91114340
1950.	.61303121E+04	.26197506E+04	.30742237	.71937954	.91064008
2000.	.62315798E+04	.26672471E+04	.30815122	.71994413	.91013241
2050.	.63326290E+04	.27144621E+04	.30884267	.72050591	.90962117
2100.	.64334928E+04	.27614290E+04	.30950077	.72106539	.90910593
2150.	.65341939E+04	.28081010E+04	.31012012	.72162108	.90858569
2200.	.66347577E+04	.28545769E+04	.31071282	.72217504	.90805953
2250.	.67352241E+04	.29007779E+04	.31126945	.72272665	.90752929
2300.	.68356225E+04	.29468439E+04	.31180607	.72327838	.90699508
2350.	.69359795E+04	.29927410E+04	.31231864	.72382996	.90645680
2400.	.70353578E+04	.30384468E+04	.31280455	.72428186	.90579053
2450.	.71275395E+04	.30839972E+04	.31326774	.72400458	.90420976
2500.	.72194791E+04	.31294169E+04	.31371092	.72372249	.90262056
2550.	.73111969E+04	.31746951E+04	.31413274	.72343523	.90102270
2600.	.74027126E+04	.32199095E+04	.31454123	.72314402	.89941628
2650.	.74929279E+04	.32650388E+04	.31493369	.72274038	.89933161
2700.	.75827437E+04	.33100446E+04	.31530613	.72231217	.89951625

2750.	.76723722E+04	.33549815E+04	.31566389	.72187903	.89970202
2800.	.77618265E+04	.33992545E+04	.31601497	.72158565	.89988856
2850.	.78511260E+04	.34406273E+04	.31634471	.72186316	.90007629
2900.	.79402833E+04	.34819137E+04	.31666778	.72214075	.90026483
2950.	.80293143E+04	.35230353E+04	.31697615	.72241714	.90045450
3000.	.81182321E+04	.35640759E+04	.31727785	.72269370	.90064508
3050.	.82070514E+04	.36049546E+04	.31756487	.72296921	.90083684
3100.	.82957823E+04	.36457561E+04	.31784522	.72324495	.90102929
3150.	.83844421E+04	.36865380E+04	.31812421	.72352271	.90122309
3200.	.84722000E+04	.37271054E+04	.31838321	.72372683	.90132846
3250.	.85554246E+04	.37676614E+04	.31864085	.72355432	.90096445
3300.	.86384805E+04	.38081530E+04	.31889181	.72337970	.90059901
3350.	.87213768E+04	.38485814E+04	.31913612	.72320317	.90023211
3400.	.88041236E+04	.38887887E+04	.31936709	.72303936	.89986355
3450.	.88867331E+04	.39286380E+04	.31959670	.72294024	.89949379
3500.	.89692111E+04	.39684972E+04	.31982632	.72284029	.89912230
3550.	.90515697E+04	.40082134E+04	.32004259	.72273791	.89874931
3600.	.91338174E+04	.40479448E+04	.32025887	.72263485	.89837486
3650.	.92159624E+04	.40875354E+04	.32046182	.72252927	.89799887
3700.	.92980122E+04	.41271452E+04	.32066476	.72242304	.89762134
3750.	.93799767E+04	.41654087E+04	.32086635	.72255065	.89724213
3800.	.94618626E+04	.42026745E+04	.32106127	.72283437	.89686155
3850.	.95436779E+04	.42398355E+04	.32124953	.72311814	.89647918
3900.	.96254309E+04	.42769762E+04	.32143778	.72340292	.89609539
3950.	.97066166E+04	.43140147E+04	.32161937	.72364980	.89624529
4000.	.97868208E+04	.43510379E+04	.32180095	.72382918	.89648021
4050.	.98638377E+04	.43879451E+04	.32197453	.72377945	.89643270
4100.	.99407286E+04	.44248407E+04	.32214809	.72372926	.89638507
4150.	.10017501E+05	.44617262E+04	.32232165	.72367896	.89633738
4200.	.10094159E+05	.44985185E+04	.32248855	.72362725	.89628938
4250.	.10170712E+05	.45352181E+04	.32264878	.72357441	.89624130
4300.	.10247142E+05	.45719135E+04	.32280902	.72351976	.89619125
4350.	.10323469E+05	.46085896E+04	.32296789	.72346407	.89614032
4400.	.10399707E+05	.46452665E+04	.32312676	.72340814	.89608941
4450.	.10475860E+05	.46818738E+04	.32328033	.72335127	.89603832
4500.	.10551933E+05	.47184857E+04	.32343389	.72329406	.89598709
4550.	.10627931E+05	.47550852E+04	.32358609	.72323637	.89593561
4600.	.10703859E+05	.47916936E+04	.32373830	.72317835	.89588393
4650.	.10779723E+05	.48282382E+04	.32388520	.72311939	.89583230
4700.	.10855526E+05	.48631176E+04	.32403210	.72330942	.89578022
4750.	.10931274E+05	.48979622E+04	.32417764	.72349978	.89572818
4800.	.11006306E+05	.49327925E+04	.32432318	.72364692	.89562164
4850.	.11079155E+05	.49676097E+04	.32446872	.72365572	.89534322
4900.	.11151917E+05	.50023204E+04	.32460759	.72366354	.89506390
4950.	.11224595E+05	.50370980E+04	.32475178	.72367208	.89478396
5000.	.11297193E+05	.50717710E+04	.32488930	.72367957	.89450304

TABLE 3h

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.070	.04572297				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.69387305E+03	.22549647E+03	.24200812	.74468088	1.06239760
150.	.10098654E+04	.33278575E+03	.24241449	.73562645	1.03074390
200.	.12879129E+04	.42989293E+03	.24323178	.72869618	1.00424170
250.	.15352294E+04	.51828557E+03	.24420539	.72336818	.98356249
300.	.17602884E+04	.59948035E+03	.24522498	.72006810	.96846691
350.	.19684710E+04	.67564751E+03	.24636593	.71777690	.95654808
400.	.21631024E+04	.74833207E+03	.24776957	.71619401	.94768808
450.	.23449012E+04	.81890936E+03	.24951795	.71448070	.93974310
500.	.25212778E+04	.88740249E+03	.25165545	.71500057	.93460060
550.	.26901925E+04	.95682135E+03	.25412555	.71449768	.93039012
600.	.28512014E+04	.10250237E+04	.25687619	.71452567	.92633516
650.	.30081963E+04	.10941241E+04	.25980842	.71431999	.92362116
700.	.31591213E+04	.11617130E+04	.26284721	.71477741	.92193423
750.	.33064453E+04	.12299361E+04	.26590999	.71484756	.91939163
800.	.34505664E+04	.12969736E+04	.26894084	.71551049	.91712792
850.	.35803578E+04	.13640053E+04	.27189675	.71369784	.91323719
900.	.37087494E+04	.14298742E+04	.27474695	.71262737	.90929153
950.	.38353652E+04	.14939750E+04	.27747417	.71233768	.90660532
1000.	.39607519E+04	.15548814E+04	.28006056	.71339865	.90432794
1050.	.40852095E+04	.16152443E+04	.28250890	.71450987	.90217758
1100.	.42084586E+04	.16750535E+04	.28480572	.71555505	.90097560
1150.	.43311213E+04	.17344626E+04	.28696458	.71657837	.89975686
1200.	.44530884E+04	.17933866E+04	.28898571	.71756915	.89905800
1250.	.45744852E+04	.18517293E+04	.29087864	.71858235	.89882315
1300.	.46956174E+04	.19097097E+04	.29265337	.71957963	.89858307
1350.	.48153881E+04	.19672925E+04	.29430677	.72038159	.90042954
1400.	.49349260E+04	.20243678E+04	.29584829	.72120757	.90247014
1450.	.50544128E+04	.20811434E+04	.29729458	.72203073	.90453752
1500.	.51739246E+04	.21376264E+04	.29864563	.72284375	.90663121
1550.	.52935250E+04	.21937900E+04	.29990962	.72366953	.90874986
1600.	.54120521E+04	.22497122E+04	.30110104	.72434798	.91068635
1650.	.55159987E+04	.23054050E+04	.30221228	.72308444	.91021314
1700.	.56194341E+04	.23609210E+04	.30325755	.72180975	.90973648
1750.	.57223974E+04	.24159314E+04	.30424058	.72062704	.90925442
1800.	.58249450E+04	.24708204E+04	.30516422	.71942286	.90876853
1850.	.59271233E+04	.25256372E+04	.30603538	.71819871	.90827924
1900.	.60289731E+04	.25751381E+04	.30685375	.71841312	.90778625
1950.	.61305260E+04	.26230457E+04	.30762967	.71898541	.90728841
2000.	.62318222E+04	.26706039E+04	.30835941	.71955298	.90678626
2050.	.63329013E+04	.27178781E+04	.30905143	.72011772	.90628061
2100.	.64337952E+04	.27649065E+04	.30971046	.72068028	.90577092
2150.	.65345244E+04	.28116354E+04	.31033018	.72123864	.90525581
2200.	.66351116E+04	.28581690E+04	.31092353	.72179507	.90473407
2250.	.67356030E+04	.29044271E+04	.31148073	.72234916	.90420837
2300.	.68360272E+04	.29505513E+04	.31201813	.72290368	.90367880
2350.	.69364103E+04	.29965019E+04	.31253102	.72345800	.90314517
2400.	.70358309E+04	.30422641E+04	.31301751	.72391420	.90248598
2450.	.71281736E+04	.30878687E+04	.31348106	.72365363	.90093051
2500.	.72202794E+04	.31333434E+04	.31392482	.72338860	.89936667
2550.	.73121677E+04	.31786759E+04	.31434719	.72311848	.89779432
2600.	.74038594E+04	.32239461E+04	.31475638	.72284455	.89621352
2650.	.74940776E+04	.32691278E+04	.31514922	.72244122	.89612773
2700.	.75838633E+04	.33141880E+04	.31552226	.72201021	.89630656

2750.	.76734601E+04	.33591781E+04	.31588054	.72157433	.89648637
2800.	.77628837E+04	.34035133E+04	.31623222	.72127642	.89666731
2850.	.78521487E+04	.34449814E+04	.31656252	.72154116	.89684899
2900.	.79412719E+04	.34863648E+04	.31688624	.72180619	.89703167
2950.	.80302662E+04	.35275836E+04	.31719517	.72206980	.89721534
3000.	.81191470E+04	.35687231E+04	.31749751	.72233368	.89739996
3050.	.82079266E+04	.36097018E+04	.31778508	.72259614	.89758557
3100.	.82966187E+04	.36506041E+04	.31806605	.72285918	.89777215
3150.	.83852367E+04	.36914843E+04	.31834544	.72312424	.89795979
3200.	.84729654E+04	.37321531E+04	.31860504	.72331689	.89806083
3250.	.85562331E+04	.37728094E+04	.31886306	.72313926	.89770190
3300.	.86393332E+04	.38134029E+04	.31911448	.72295961	.89734157
3350.	.87222732E+04	.38539351E+04	.31935931	.72277789	.89697960
3400.	.88050666E+04	.38942357E+04	.31959094	.72261149	.89661631
3450.	.88877218E+04	.39341172E+04	.31982099	.72252039	.89625162
3500.	.89702467E+04	.39740081E+04	.32005105	.72242852	.89588524
3550.	.90526546E+04	.40137568E+04	.32026790	.72233439	.89551749
3600.	.91349502E+04	.40535195E+04	.32048477	.72223962	.89514811
3650.	.92171440E+04	.40931436E+04	.32068844	.72214214	.89477720
3700.	.92992450E+04	.41327858E+04	.32089210	.72204424	.89440496
3750.	.93812611E+04	.41710952E+04	.32109419	.72217685	.89403096
3800.	.94631991E+04	.42084183E+04	.32128968	.72246340	.89365558
3850.	.95450679E+04	.42456372E+04	.32147858	.72275012	.89327859
3900.	.96268746E+04	.42828360E+04	.32166747	.72303779	.89289994
3950.	.97080335E+04	.43199341E+04	.32184977	.72328147	.89304575
4000.	.97882000E+04	.43570159E+04	.32203206	.72345712	.89327533
4050.	.98652271E+04	.43939810E+04	.32220618	.72340711	.89322797
4100.	.99421277E+04	.44309337E+04	.32238031	.72335684	.89318044
4150.	.10018911E+05	.44678769E+04	.32255442	.72330640	.89313288
4200.	.10095580E+05	.45047274E+04	.32272194	.72325466	.89308511
4250.	.10172144E+05	.45414870E+04	.32288288	.72320169	.89303722
4300.	.10248576E+05	.45782417E+04	.32304381	.72314639	.89298654
4350.	.10324905E+05	.46149741E+04	.32320314	.72309001	.89293504
4400.	.10401143E+05	.46517076E+04	.32336250	.72303332	.89288341
4450.	.10477296E+05	.46883756E+04	.32351682	.72297565	.89283159
4500.	.10553369E+05	.47250485E+04	.32367116	.72291768	.89277970
4550.	.10629367E+05	.47617060E+04	.32382391	.72285922	.89272755
4600.	.10705294E+05	.47983718E+04	.32397666	.72280045	.89267507
4650.	.10781158E+05	.48349789E+04	.32412440	.72274075	.89262276
4700.	.10856961E+05	.48699412E+04	.32427213	.72292655	.89257013
4750.	.10932707E+05	.49048656E+04	.32441828	.72311257	.89251719
4800.	.11007748E+05	.49397765E+04	.32456443	.72325608	.89241105
4850.	.11080642E+05	.49746745E+04	.32471059	.72326376	.89213648
4900.	.11153448E+05	.50094678E+04	.32485015	.72327028	.89186087
4950.	.11226171E+05	.50443241E+04	.32499472	.72327753	.89158472
5000.	.11298815E+05	.50790772E+04	.32513270	.72328378	.89130761

TABLE 31

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W .080	X .05245042				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.69202297E+03	.22425352E+03	.24111141	.74404464	1.05561360
150.	.10077439E+04	.33110640E+03	.24157381	.73524561	1.02474280
200.	.12858930E+04	.42810434E+03	.24250583	.72841247	.99892769
250.	.15334561E+04	.51660008E+03	.24361345	.72313293	.97876278
300.	.17587685E+04	.59802019E+03	.24476147	.71983984	.96402221
350.	.19671963E+04	.67445952E+03	.24601678	.71755720	.95236385
400.	.21620468E+04	.74743893E+03	.24751859	.71597390	.94369325
450.	.23440684E+04	.81831290E+03	.24934956	.71426519	.93590613
500.	.25206001E+04	.88710712E+03	.25155529	.71476179	.93086503
550.	.26896470E+04	.95678277E+03	.25408137	.71425741	.92673259
600.	.28507998E+04	.10252394E+04	.25687739	.71427806	.92275074
650.	.30078963E+04	.10945581E+04	.25984651	.71407022	.92008505
700.	.31588738E+04	.11623690E+04	.26291512	.71450260	.91842421
750.	.33062986E+04	.12307852E+04	.26600201	.71456991	.91592242
800.	.34505161E+04	.12980086E+04	.26905241	.71522613	.91369447
850.	.35805305E+04	.13652037E+04	.27202426	.71344016	.90987545
900.	.37091596E+04	.14312133E+04	.27488747	.71240352	.90600083
950.	.38359460E+04	.14954743E+04	.27762532	.71211902	.90336119
1000.	.39614828E+04	.15565783E+04	.28022045	.71315937	.90112177
1050.	.40860866E+04	.16171119E+04	.28267607	.71426034	.89900613
1100.	.42094164E+04	.16770760E+04	.28497879	.71528916	.89781998
1150.	.43321619E+04	.17366424E+04	.28714306	.71629611	.89661691
1200.	.44541825E+04	.17957108E+04	.28916821	.71726911	.89592534
1250.	.45756037E+04	.18541742E+04	.29106505	.71827032	.89569020
1300.	.46967564E+04	.19122731E+04	.29284304	.71925521	.89544919
1350.	.48163796E+04	.19699689E+04	.29449857	.72001994	.89725643
1400.	.49357459E+04	.20271397E+04	.29604244	.72081376	.89925403
1450.	.50550486E+04	.20840045E+04	.29749065	.72160573	.90127770
1500.	.51743636E+04	.21405742E+04	.29884320	.72238715	.90332690
1550.	.52937494E+04	.21968127E+04	.30010841	.72318350	.90539934
1600.	.54120702E+04	.22528033E+04	.30130183	.72383887	.90729327
1650.	.55160452E+04	.23085538E+04	.30241374	.72258562	.90682646
1700.	.56195108E+04	.23641262E+04	.30346039	.72132312	.90635631
1750.	.57225005E+04	.24191305E+04	.30444402	.72016825	.90588002
1800.	.58250757E+04	.24740143E+04	.30536891	.71899220	.90539993
1850.	.59272819E+04	.25288182E+04	.30624088	.71779616	.90491634
1900.	.60291616E+04	.25783700E+04	.30706066	.71801886	.90442922
1950.	.61307431E+04	.26263358E+04	.30783697	.71859405	.90393696
2000.	.62320677E+04	.26739559E+04	.30856760	.71916447	.90344032
2050.	.63331758E+04	.27212890E+04	.30926019	.71973211	.90294010
2100.	.64341003E+04	.27683791E+04	.30992015	.72029777	.90243590
2150.	.65348567E+04	.28151651E+04	.31054024	.72085857	.90192576
2200.	.66354660E+04	.28617574E+04	.31113426	.72141712	.90140826
2250.	.67359808E+04	.29080719E+04	.31169203	.72197372	.90088692
2300.	.68364284E+04	.29542544E+04	.31223020	.72253066	.90036163
2350.	.69368352E+04	.30002595E+04	.31274339	.72308721	.89983223
2400.	.70362970E+04	.30460778E+04	.31323049	.72354773	.89918002
2450.	.71287987E+04	.30917359E+04	.31369438	.72393069	.89764950
2500.	.72210678E+04	.31372659E+04	.31413870	.72305532	.89611059
2550.	.73131244E+04	.31826529E+04	.31456164	.72280216	.89456335
2600.	.74049899E+04	.32279785E+04	.31497153	.72254536	.89300767
2650.	.74952096E+04	.32732126E+04	.31536476	.72214218	.89292083
2700.	.75849664E+04	.33183268E+04	.31573840	.72170863	.89309398

2750.	.76745323E+04	.33633703E+04	.31609719	.72126997	.89326806
2800.	.77639230E+04	.34077675E+04	.31644945	.72096734	.89344308
2850.	.78531554E+04	.34493306E+04	.31678034	.72121970	.89361907
2900.	.79422437E+04	.34908114E+04	.31710470	.72147203	.89379586
2950.	.80312024E+04	.35321277E+04	.31741420	.72172294	.89397367
3000.	.81200458E+04	.35733663E+04	.31771717	.72197409	.89415237
3050.	.82087864E+04	.36144442E+04	.31800528	.72222373	.89433203
3100.	.82974389E+04	.36554477E+04	.31828687	.72247396	.89451262
3150.	.83860149E+04	.36964251E+04	.31856666	.72272658	.89469422
3200.	.84737158E+04	.37371953E+04	.31882687	.72290795	.89479106
3250.	.85570264E+04	.37779514E+04	.31908527	.72272528	.89443711
3300.	.86401697E+04	.38186465E+04	.31933714	.72254056	.89408175
3350.	.87231544E+04	.38592823E+04	.31958249	.72235384	.89372483
3400.	.88059935E+04	.38996753E+04	.31981479	.72218497	.89336669
3450.	.88886942E+04	.39395888E+04	.32004529	.72210193	.89300702
3500.	.89712673E+04	.39795114E+04	.32027578	.72201818	.89264586
3550.	.90537221E+04	.40192924E+04	.32049322	.72193217	.89228315
3600.	.91360668E+04	.40590872E+04	.32071066	.72184554	.89191896
3650.	.92183105E+04	.40987436E+04	.32091505	.72175641	.89155324
3700.	.93004621E+04	.41384182E+04	.32111944	.72166681	.89118619
3750.	.93825289E+04	.41767725E+04	.32132203	.72180450	.89081739
3800.	.94645197E+04	.42141536E+04	.32151809	.72209380	.89044726
3850.	.95464410E+04	.42514300E+04	.32170762	.72238348	.89007544
3900.	.96283015E+04	.42886868E+04	.32189715	.72267408	.88970208
3950.	.97094357E+04	.43258442E+04	.32208016	.72291475	.88984393
4000.	.97895640E+04	.43629853E+04	.32226317	.72308652	.89006820
4050.	.98666028E+04	.44000072E+04	.32243785	.72303656	.89002104
4100.	.99435161E+04	.44370174E+04	.32261252	.72298627	.88997388
4150.	.10020312E+05	.44740180E+04	.32278719	.72293591	.88992664
4200.	.10096992E+05	.45109271E+04	.32295534	.72288408	.88987907
4250.	.10173568E+05	.45477456E+04	.32311697	.72283119	.88983148
4300.	.10250002E+05	.45845599E+04	.32327859	.72277517	.88978026
4350.	.10326331E+05	.46213490E+04	.32343841	.72271797	.88972801
4400.	.10402569E+05	.46581388E+04	.32359824	.72266051	.88967569
4450.	.10478722E+05	.46948670E+04	.32375333	.72260217	.88962317
4500.	.10554794E+05	.47316009E+04	.32390843	.72254333	.88957045
4550.	.10630792E+05	.47683160E+04	.32406172	.72248414	.88951760
4600.	.10706719E+05	.48050406E+04	.32421502	.72242450	.88946455
4650.	.10782581E+05	.48417094E+04	.32436359	.72236400	.88941141
4700.	.10858382E+05	.48767545E+04	.32451216	.72254547	.88935797
4750.	.10934128E+05	.49117587E+04	.32465893	.72272731	.88930444
4800.	.11009178E+05	.49467503E+04	.32480569	.72286721	.88919856
4850.	.11082115E+05	.49817294E+04	.32495247	.72287358	.88892771
4900.	.11154967E+05	.50166049E+04	.32509270	.72287899	.88865595
4950.	.11227734E+05	.50515397E+04	.32523767	.72288494	.88838350
5000.	.11300423E+05	.50863724E+04	.32537610	.72288995	.88811019

TABLE 3j

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W .090	X .05922842				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.69016848E+03	.22301021E+03	.24021469	.74341259	1.04884410
150.	.10056099E+04	.32942417E+03	.24073313	.73486899	1.01874520
200.	.12838552E+04	.42630948E+03	.24177987	.72813379	.99361146
250.	.15316618E+04	.51490562E+03	.24302152	.72290290	.97395822
300.	.17572271E+04	.59654925E+03	.24429797	.71961704	.95957212
350.	.19659000E+04	.67325982E+03	.24566762	.71734263	.94817382
400.	.21609704E+04	.74653370E+03	.24726762	.71575871	.93969286
450.	.23432156E+04	.81770434E+03	.24918116	.71405415	.93206371
500.	.25199033E+04	.88679957E+03	.25145514	.71452744	.92712435
550.	.26890835E+04	.95673258E+03	.25403720	.71402109	.92307028
600.	.28503812E+04	.10254436E+04	.25687860	.71403432	.91916177
650.	.30075799E+04	.10949810E+04	.25988460	.71382397	.91654466
700.	.31586116E+04	.11630145E+04	.26298302	.71423117	.91491050
750.	.33061378E+04	.12316239E+04	.26609403	.71429559	.91244963
800.	.34504519E+04	.12990338E+04	.26916398	.71494472	.91025746
850.	.35806896E+04	.13663928E+04	.27215178	.71318513	.90650995
900.	.37095561E+04	.14325436E+04	.27502798	.71218195	.90270605
950.	.38365133E+04	.14969648E+04	.27777647	.71190257	.90011288
1000.	.39621997E+04	.15582670E+04	.28038035	.71292204	.89791128
1050.	.40869499E+04	.16189718E+04	.28284324	.71401249	.89583026
1100.	.42103602E+04	.16790912E+04	.28515185	.71502488	.89465992
1150.	.43331887E+04	.17388151E+04	.28732155	.71601540	.89347246
1200.	.44552626E+04	.17980282E+04	.28935070	.71697056	.89278820
1250.	.45767091E+04	.18566125E+04	.29125147	.71795983	.89255318
1300.	.46978825E+04	.19148299E+04	.29303270	.71893231	.89231134
1350.	.48173598E+04	.19726392E+04	.29469035	.71965993	.89407982
1400.	.49365558E+04	.20299054E+04	.29623659	.72042194	.89603504
1450.	.50556772E+04	.20868599E+04	.29768673	.72118305	.89801577
1500.	.51747978E+04	.21435164E+04	.29904078	.72193312	.90002112
1550.	.52939710E+04	.21998293E+04	.30030720	.72270043	.90204809
1600.	.54120874E+04	.22558880E+04	.30150262	.72333311	.90390005
1650.	.55160915E+04	.23116964E+04	.30261521	.72209010	.90343971
1700.	.56195870E+04	.23673252E+04	.30366324	.72083966	.90297590
1750.	.57226035E+04	.24223239E+04	.30464746	.71971242	.90250540
1800.	.58252066E+04	.24772020E+04	.30557358	.71856441	.90203118
1850.	.59274417E+04	.25319932E+04	.30644639	.71739651	.90155345
1900.	.60293513E+04	.25815956E+04	.30726756	.71762750	.90107218
1950.	.61309616E+04	.26296199E+04	.30804426	.71820550	.90058551
2000.	.62323142E+04	.26773023E+04	.30877579	.71877863	.90009423
2050.	.63334515E+04	.27246950E+04	.30946895	.71934895	.89959943
2100.	.64344053E+04	.27718472E+04	.31012983	.71991738	.89910060
2150.	.65351889E+04	.28186903E+04	.31075031	.72048067	.89859545
2200.	.66358186E+04	.28653410E+04	.31134498	.72104116	.89808193
2250.	.67363546E+04	.29117120E+04	.31190331	.72159993	.89756467
2300.	.68368243E+04	.29579530E+04	.31244226	.72215914	.89704348
2350.	.69372542E+04	.30040121E+04	.31295576	.72271799	.89651823
2400.	.70367542E+04	.30498866E+04	.31344345	.72318246	.89587242
2450.	.71294117E+04	.30955989E+04	.31390770	.72295451	.89436640
2500.	.72218423E+04	.31411841E+04	.31435259	.72272261	.89285214
2550.	.73140659E+04	.31866250E+04	.31477609	.72248632	.89132959
2600.	.74061017E+04	.32320061E+04	.31518667	.72224631	.88979863
2650.	.74963231E+04	.32772926E+04	.31558029	.72184332	.88971064
2700.	.75860507E+04	.33224614E+04	.31595454	.72140705	.88987825

2750.	.76755862E+04	.33675578E+04	.31631385	.72096585	.89004663
2800.	.77649449E+04	.34120168E+04	.31666670	.72065864	.89021596
2850.	.78541440E+04	.34536751E+04	.31699815	.72089847	.89038615
2900.	.79431971E+04	.34952525E+04	.31732317	.72113828	.89055723
2950.	.80321198E+04	.35366664E+04	.31763323	.72137651	.89072920
3000.	.81209256E+04	.35780041E+04	.31793683	.72161496	.89090199
3050.	.82096284E+04	.36191812E+04	.31822549	.72185194	.89107586
3100.	.82982414E+04	.36602853E+04	.31850770	.72208953	.89125060
3150.	.83867765E+04	.37013603E+04	.31878788	.72232976	.89142623
3200.	.84744479E+04	.37422312E+04	.31904870	.72249985	.89151876
3250.	.85578014E+04	.37830864E+04	.31930748	.72231231	.89116982
3300.	.86409882E+04	.38238827E+04	.31955981	.72212270	.89081955
3350.	.87240176E+04	.38646221E+04	.31980568	.72193094	.89046765
3400.	.88069017E+04	.39051071E+04	.32003864	.72175966	.89011453
3450.	.88896483E+04	.39450525E+04	.32026958	.72168466	.88975990
3500.	.89722687E+04	.39850063E+04	.32050051	.72160904	.88940386
3550.	.90547714E+04	.40248195E+04	.32071853	.72153121	.88904626
3600.	.91371645E+04	.40646455E+04	.32093656	.72145285	.88868717
3650.	.92194581E+04	.41043348E+04	.32114167	.72137197	.88832663
3700.	.93016604E+04	.41440413E+04	.32134678	.72129073	.88796478
3750.	.93837785E+04	.41824416E+04	.32154986	.72143328	.88760115
3800.	.94658210E+04	.42198787E+04	.32174649	.72172562	.88723615
3850.	.95477968E+04	.42572135E+04	.32193666	.72201824	.88686966
3900.	.96297114E+04	.42945285E+04	.32212683	.72231175	.88650163
3950.	.97108190E+04	.43317445E+04	.32231055	.72254940	.88663949
4000.	.97909112E+04	.43689447E+04	.32249427	.72271747	.88685860
4050.	.98679630E+04	.44060238E+04	.32266950	.72266758	.88681184
4100.	.99448904E+04	.44430911E+04	.32284473	.72261750	.88676518
4150.	.10021698E+05	.44801491E+04	.32301996	.72256711	.88671823
4200.	.10098392E+05	.45171162E+04	.32318874	.72251550	.88667112
4250.	.10174981E+05	.45539937E+04	.32335106	.72246274	.88662386
4300.	.10251419E+05	.45908674E+04	.32351339	.72240624	.88657229
4350.	.10327746E+05	.46277128E+04	.32367368	.72234808	.88651911
4400.	.10403984E+05	.46645590E+04	.32383396	.72228978	.88646606
4450.	.10480136E+05	.47013482E+04	.32398983	.72223057	.88641282
4500.	.10556208E+05	.47381428E+04	.32414570	.72217101	.88635943
4550.	.10632205E+05	.47749153E+04	.32429953	.72211102	.88630585
4600.	.10708131E+05	.48116974E+04	.32445337	.72205062	.88625207
4650.	.10783991E+05	.48484287E+04	.32460278	.72198924	.88619807
4700.	.10859791E+05	.48835559E+04	.32475219	.72216658	.88614396
4750.	.10935534E+05	.49186407E+04	.32489958	.72234395	.88608959
4800.	.11010593E+05	.49537118E+04	.32504696	.72248040	.88598406
4850.	.11083574E+05	.49887722E+04	.32519433	.72248546	.88571689
4900.	.11156468E+05	.50237299E+04	.32533526	.72248955	.88544875
4950.	.11229281E+05	.50587432E+04	.32548061	.72249431	.88518010
5000.	.11302015E+05	.50936562E+04	.32561950	.72249799	.88491050

TABLE 3k

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.100	.06605755				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.68830968E+03	.22176650E+03	.23931798	.74278522	1.04208920
150.	.10034632E+04	.32773900E+03	.23989245	.73449677	1.01275100
200.	.12817991E+04	.42450832E+03	.24105392	.72786015	.98829299
250.	.15298466E+04	.51320205E+03	.24242958	.72267844	.96914900
300.	.17556640E+04	.59506741E+03	.24383446	.71939980	.95511650
350.	.19645818E+04	.67204823E+03	.24531847	.71713335	.94397796
400.	.21598730E+04	.74561623E+03	.24701665	.71554852	.93568683
450.	.23423426E+04	.81708336E+03	.24901276	.71384783	.92821585
500.	.25191874E+04	.88648000E+03	.25135499	.71429735	.92337855
550.	.26885020E+04	.95667072E+03	.25399303	.71378871	.91940329
600.	.28499453E+04	.10256365E+04	.25687981	.71379421	.91556829
650.	.30072472E+04	.10953930E+04	.25992270	.71358116	.91300003
700.	.31583347E+04	.11636493E+04	.26305092	.71396325	.91139311
750.	.33059628E+04	.12324525E+04	.26618605	.71402441	.90897329
800.	.34503737E+04	.13000490E+04	.26927555	.71466634	.90681693
850.	.35808349E+04	.13675722E+04	.27227930	.71293289	.90314069
900.	.37099382E+04	.14338648E+04	.27516849	.71196252	.89940705
950.	.38370663E+04	.14984468E+04	.27792762	.71168806	.89686030
1000.	.39629032E+04	.15599472E+04	.28054025	.71268681	.89469647
1050.	.40877992E+04	.16208238E+04	.28301041	.71376648	.89264997
1100.	.42112905E+04	.16810986E+04	.28532490	.71476235	.89149544
1150.	.43342012E+04	.17409807E+04	.28750004	.71573625	.89032353
1200.	.44563291E+04	.18003385E+04	.28953320	.71667366	.88964682
1250.	.45778014E+04	.18590441E+04	.29143788	.71765091	.88941187
1300.	.46989956E+04	.19173803E+04	.29322237	.71861101	.88916936
1350.	.48183290E+04	.19753028E+04	.29488214	.71930192	.89089981
1400.	.49373570E+04	.20326644E+04	.29643074	.72003243	.89281335
1450.	.50562993E+04	.20897091E+04	.29788281	.72076280	.89475181
1500.	.51752268E+04	.21464521E+04	.29923835	.72148188	.89671394
1550.	.52941894E+04	.22028401E+04	.30050599	.72222019	.89869606
1600.	.54121023E+04	.22589667E+04	.30170340	.72283030	.90050642
1650.	.55161364E+04	.23148329E+04	.30281667	.72159765	.90005268
1700.	.56196633E+04	.23705173E+04	.30386609	.72035968	.89959550
1750.	.57227074E+04	.24255106E+04	.30485091	.71925989	.89913091
1800.	.58253384E+04	.24803838E+04	.30577826	.71813958	.89866240
1850.	.59276030E+04	.25351622E+04	.30665189	.71699972	.89819063
1900.	.60295426E+04	.25848155E+04	.30747446	.71723892	.89771518
1950.	.61311809E+04	.26328986E+04	.30825157	.71781955	.89723400
2000.	.62325618E+04	.26806433E+04	.30898398	.71839535	.89674803
2050.	.63337275E+04	.27280955E+04	.30967771	.71896830	.89625853
2100.	.64347119E+04	.27753101E+04	.31033952	.71953955	.89576521
2150.	.65355209E+04	.28222110E+04	.31096037	.72010487	.89526473
2200.	.66361703E+04	.28689195E+04	.31155570	.72066734	.89475508
2250.	.67367256E+04	.29153475E+04	.31211459	.72122801	.89424163
2300.	.68372159E+04	.29616470E+04	.31265432	.72178926	.89372426
2350.	.69376660E+04	.30077603E+04	.31316813	.72235004	.89320286
2400.	.70372032E+04	.30536909E+04	.31365642	.72281837	.89256352
2450.	.71300142E+04	.30994577E+04	.31412103	.72260621	.89108133
2500.	.72226038E+04	.31450976E+04	.31456649	.72239065	.88959135
2550.	.73149903E+04	.31905928E+04	.31499054	.72217072	.88809295
2600.	.74071953E+04	.32360295E+04	.31540182	.72194731	.88658636
2650.	.74974180E+04	.32813679E+04	.31579583	.72154460	.88649733
2700.	.75871158E+04	.33265907E+04	.31617067	.72110566	.88665931

2750.	.76766211E+04	.33717401E+04	.31653050	.72066192	.88682219
2800.	.77659479E+04	.34162609E+04	.31688394	.72035016	.88698585
2850.	.78551131E+04	.34580144E+04	.31721597	.72057747	.88715037
2900.	.79441326E+04	.34996889E+04	.31754163	.72080486	.88731569
2950.	.80330196E+04	.35411996E+04	.31785225	.72103060	.88748201
3000.	.81217883E+04	.35826366E+04	.31815649	.72125640	.88764903
3050.	.82104527E+04	.36239131E+04	.31844570	.72148068	.88781706
3100.	.82990258E+04	.36651179E+04	.31872853	.72170562	.88798596
3150.	.83875208E+04	.37062898E+04	.31900911	.72193369	.88815576
3200.	.84751636E+04	.37472604E+04	.31927053	.72209283	.88824411
3250.	.85585597E+04	.37882147E+04	.31952970	.72190047	.88790023
3300.	.86417900E+04	.38291121E+04	.31978247	.72170592	.88755491
3350.	.87248640E+04	.38699537E+04	.32002887	.72150948	.88720814
3400.	.88077920E+04	.39105307E+04	.32026250	.72133570	.88685981
3450.	.88905860E+04	.39505076E+04	.32049387	.72126890	.88651034
3500.	.89732523E+04	.39904919E+04	.32072524	.72120141	.88615935
3550.	.90558028E+04	.40303372E+04	.32094384	.72113174	.88580683
3600.	.91382449E+04	.40701951E+04	.32116244	.72106150	.88545290
3650.	.92205878E+04	.41099167E+04	.32136829	.72098894	.88509747
3700.	.93028395E+04	.41496549E+04	.32157412	.72091594	.88474067
3750.	.93850094E+04	.41881001E+04	.32177770	.72106363	.88438228
3800.	.94671043E+04	.42255946E+04	.32197490	.72135881	.88402252
3850.	.95491322E+04	.42629871E+04	.32216571	.72165428	.88366115
3900.	.96311010E+04	.43003600E+04	.32235653	.72195076	.88329827
3950.	.97121853E+04	.43376346E+04	.32254095	.72218563	.88343245
4000.	.97922422E+04	.43748939E+04	.32272537	.72235006	.88364660
4050.	.98693084E+04	.44120299E+04	.32290117	.72230045	.88360044
4100.	.99462493E+04	.44491544E+04	.32307695	.72225045	.88355409
4150.	.10023072E+05	.44862692E+04	.32325273	.72220037	.88350778
4200.	.10099779E+05	.45232944E+04	.32342214	.72214890	.88346102
4250.	.10176383E+05	.45602315E+04	.32358516	.72209634	.88341435
4300.	.10252823E+05	.45971641E+04	.32374818	.72203920	.88336218
4350.	.10329151E+05	.46340658E+04	.32390893	.72198029	.88330846
4400.	.10405388E+05	.46709684E+04	.32406970	.72192115	.88325465
4450.	.10481539E+05	.47078181E+04	.32422633	.72186113	.88320058
4500.	.10557610E+05	.47446730E+04	.32438297	.72180080	.88314650
4550.	.10633605E+05	.47815031E+04	.32453734	.72173994	.88309209
4600.	.10709529E+05	.48183429E+04	.32469173	.72167869	.88303749
4650.	.10785388E+05	.48551361E+04	.32484198	.72161657	.88298286
4700.	.10861186E+05	.48903463E+04	.32499222	.72178955	.88292794
4750.	.10936927E+05	.49255099E+04	.32514022	.72196277	.88287282
4800.	.11011994E+05	.49606620E+04	.32528821	.72209551	.88276755
4850.	.11085017E+05	.49958035E+04	.32543621	.72209923	.88250399
4900.	.11157955E+05	.50308436E+04	.32557782	.72210207	.88223954
4950.	.11230810E+05	.50659356E+04	.32572355	.72210536	.88197440
5000.	.11303588E+05	.51009284E+04	.32586291	.72210776	.88170844

TABLE 31

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.200	.13729295				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.66948034E+03	.20930948E+03	.23035085	.73678153	.97535588
150.	.98129111E+03	.31072554E+03	.23148561	.73104634	.95302288
200.	.12602157E+04	.40614265E+03	.23379435	.72543799	.93500699
250.	.15105043E+04	.49565216E+03	.23651023	.72076697	.92080746
300.	.17388004E+04	.57962350E+03	.23919939	.71756923	.91026719
350.	.19501604E+04	.65924719E+03	.24182695	.71536344	.90170881
400.	.21477042E+04	.73572907E+03	.24450691	.71375256	.89532560
450.	.23324588E+04	.81015434E+03	.24732878	.71206701	.88944022
500.	.25109280E+04	.88256871E+03	.25035346	.71226126	.88564118
550.	.26816442E+04	.95535585E+03	.25355127	.71170788	.88247229
600.	.28446040E+04	.10268879E+04	.25689193	.71162179	.87938745
650.	.30029801E+04	.10988560E+04	.26030361	.71136396	.87732065
700.	.31547132E+04	.11693617E+04	.26372994	.71149270	.87601532
750.	.33033876E+04	.12401234E+04	.26710622	.71150610	.87401104
800.	.34487890E+04	.13096075E+04	.27039128	.71206256	.87221658
850.	.35814994E+04	.13787950E+04	.27355444	.71057340	.86924103
900.	.37129468E+04	.14465287E+04	.27657365	.70990862	.86618880
950.	.38417946E+04	.15127360E+04	.27943911	.70967280	.86409976
1000.	.39691397E+04	.15762368E+04	.28213922	.71045790	.86230889
1050.	.40954890E+04	.16388503E+04	.28468210	.71142092	.86060054
1100.	.42197863E+04	.17007041E+04	.28705550	.71224194	.85960434
1150.	.43435075E+04	.17621811E+04	.28928496	.71304322	.85858558
1200.	.44661856E+04	.18230005E+04	.29135811	.71380084	.85798828
1250.	.45879549E+04	.18829360E+04	.29330201	.71465854	.85776701
1300.	.47093718E+04	.19424725E+04	.29511901	.71549280	.85752477
1350.	.48273679E+04	.20015375E+04	.29680006	.71583120	.85890878
1400.	.49448394E+04	.20598636E+04	.29837226	.71626242	.86044394
1450.	.50621186E+04	.21178122E+04	.29984360	.71670368	.86199824
1500.	.51792514E+04	.21754250E+04	.30121408	.71713039	.86356640
1550.	.52961995E+04	.22325620E+04	.30249389	.71759167	.86513106
1600.	.54121814E+04	.22893614E+04	.30371128	.71799083	.86655753
1650.	.55165620E+04	.23457964E+04	.30483128	.71686553	.86617500
1700.	.56204520E+04	.24020359E+04	.30589455	.71575349	.86578975
1750.	.57237898E+04	.24569834E+04	.30688533	.71492021	.86538489
1800.	.58267189E+04	.25118162E+04	.30782504	.71406892	.86497529
1850.	.59292925E+04	.25664812E+04	.30870696	.71319976	.86456272
1900.	.60315543E+04	.26166538E+04	.30954349	.71351750	.86414706
1950.	.61334775E+04	.26653360E+04	.31032455	.71411957	.86371921
2000.	.62351278E+04	.27137174E+04	.31106589	.71471535	.86328347
2050.	.63365723E+04	.27617787E+04	.31176532	.71530836	.86284448
2100.	.64378444E+04	.28096310E+04	.31243638	.71590066	.86240209
2150.	.65388692E+04	.28571213E+04	.31306099	.71647808	.86194217
2200.	.66396157E+04	.29044196E+04	.31366292	.71704556	.86145743
2250.	.67402699E+04	.29514176E+04	.31422745	.71761373	.86096905
2300.	.68408598E+04	.29983051E+04	.31477493	.71818278	.86047684
2350.	.69414128E+04	.30449627E+04	.31529186	.71875130	.85998094
2400.	.70412055E+04	.30914616E+04	.31578610	.71924386	.85938992
2450.	.71354159E+04	.31377721E+04	.31625427	.71917450	.85812491
2500.	.72294468E+04	.31839616E+04	.31670542	.71910568	.85685240
2550.	.73233183E+04	.32299932E+04	.31713503	.71903578	.85557246
2600.	.74170519E+04	.32759779E+04	.31755329	.71896370	.85428506
2650.	.75072711E+04	.33218330E+04	.31795118	.71856282	.85418522
2700.	.75966800E+04	.33675909E+04	.31833204	.71809987	.85429548

2750.	.76858831E+04	.34132656E+04	.31869704	.71763184	.85440628
2800.	.77748979E+04	.34583963E+04	.31905636	.71727771	.85451782
2850.	.78637383E+04	.35010938E+04	.31939414	.71738492	.85462980
2900.	.79524207E+04	.35437319E+04	.31972627	.71749157	.85474246
2950.	.80409592E+04	.35862075E+04	.32004251	.71759615	.85485571
3000.	.81293668E+04	.36286296E+04	.32035308	.71770003	.85496935
3050.	.82176583E+04	.36708921E+04	.32064778	.71780202	.85508382
3100.	.83058465E+04	.37130923E+04	.32093681	.71790615	.85519882
3150.	.83939429E+04	.37552055E+04	.32122134	.71802022	.85531438
3200.	.84813090E+04	.37971500E+04	.32148883	.71807700	.85536484
3250.	.85651246E+04	.38390642E+04	.32175181	.71784272	.85506942
3300.	.86487842E+04	.38809392E+04	.32200911	.71760652	.85477298
3350.	.87322947E+04	.39227770E+04	.32226074	.71736825	.85447516
3400.	.88156692E+04	.39642433E+04	.32250102	.71717654	.85417617
3450.	.88989170E+04	.40045246E+04	.32273678	.71719069	.85387605
3500.	.89820469E+04	.40448075E+04	.32297256	.71720461	.85357464
3550.	.90650684E+04	.40849599E+04	.32319697	.71721697	.85327182
3600.	.91479906E+04	.41251197E+04	.32342138	.71722905	.85296776
3650.	.92308222E+04	.41651528E+04	.32363446	.71723949	.85266241
3700.	.93135721E+04	.42051972E+04	.32384752	.71724988	.85235591
3750.	.93962491E+04	.42440846E+04	.32405608	.71744837	.85204801
3800.	.94788585E+04	.42821414E+04	.32425896	.71777281	.85173882
3850.	.95614112E+04	.43201052E+04	.32445616	.71809795	.85142833
3900.	.96439136E+04	.43580500E+04	.32465337	.71842429	.85111645
3950.	.97248185E+04	.43959062E+04	.32484489	.71863623	.85122062
4000.	.98046008E+04	.44337475E+04	.32503642	.71877171	.85139409
4050.	.98818762E+04	.44714463E+04	.32521777	.71872979	.85135923
4100.	.99590283E+04	.45091337E+04	.32539910	.71868767	.85132428
4150.	.10036063E+05	.45468129E+04	.32558044	.71864531	.85128922
4200.	.10112987E+05	.45844119E+04	.32575610	.71860192	.85125410
4250.	.10189808E+05	.46219321E+04	.32592610	.71855757	.85121887
4300.	.10266271E+05	.46594495E+04	.32609609	.71849492	.85116217
4350.	.10342570E+05	.46969063E+04	.32626156	.71842672	.85109974
4400.	.10418778E+05	.47343649E+04	.32642704	.71835840	.85103745
4450.	.10494896E+05	.47718109E+04	.32659135	.71828961	.85097472
4500.	.10570931E+05	.48092647E+04	.32675567	.71822031	.85091189
4550.	.10646888E+05	.48466631E+04	.32691547	.71815024	.85084879
4600.	.10722773E+05	.48840722E+04	.32707528	.71807986	.85078557
4650.	.10798588E+05	.49214773E+04	.32723392	.71800883	.85072289
4700.	.10874341E+05	.49575096E+04	.32739255	.71813843	.85065841
4750.	.10950035E+05	.49934693E+04	.32754668	.71826767	.85059452
4800.	.11025157E+05	.50294221E+04	.32770081	.71836340	.85049042
4850.	.11098570E+05	.50653687E+04	.32785494	.71835264	.85025963
4900.	.11171903E+05	.51012290E+04	.32800339	.71834101	.85002816
4950.	.11245158E+05	.51371035E+04	.32815300	.71832936	.84979603
5000.	.11318340E+05	.51728927E+04	.32829694	.71831690	.84956312

TABLE 3m

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X					
300	21433981					
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO	
100.	.65020329E+03	.19681689E+03	.22138372	.73136213	.91014606	
150.	.95779335E+03	.29340959E+03	.22307876	.72820847	.89374567	
200.	.12366871E+04	.38710285E+03	.22653478	.72371629	.88158959	
250.	.14888757E+04	.47710569E+03	.23059086	.71959133	.87205119	
300.	.17195497E+04	.56295057E+03	.23456431	.71648382	.86490931	
350.	.19333198E+04	.64508241E+03	.23833542	.71429413	.85888762	
400.	.21331908E+04	.72440937E+03	.24199716	.71261655	.85442290	
450.	.23203019E+04	.80176294E+03	.24564479	.71089600	.85012722	
500.	.25004939E+04	.87719138E+03	.24935193	.71079468	.84739517	
550.	.26727218E+04	.95260528E+03	.25310951	.71014859	.84506539	
600.	.28373064E+04	.10267312E+04	.25690404	.70993797	.84275498	
650.	.29968380E+04	.11009464E+04	.26068453	.70959794	.84121267	
700.	.31493901E+04	.11737369E+04	.26440897	.70946648	.84026239	
750.	.32991642E+04	.12464965E+04	.26802639	.70939875	.83868324	
800.	.34455926E+04	.13179030E+04	.27150700	.70984170	.83725604	
850.	.35805704E+04	.13887974E+04	.27482959	.70856029	.83495717	
900.	.37143028E+04	.14580231E+04	.27797880	.70814886	.83254513	
950.	.38448870E+04	.15258889E+04	.28095059	.70793043	.83090234	
1000.	.39737476E+04	.15914153E+04	.28373819	.70849130	.82947516	
1050.	.41015300E+04	.16558004E+04	.28635379	.70931774	.82809165	
1100.	.42266262E+04	.17192747E+04	.28878609	.70994518	.82725357	
1150.	.43511261E+04	.17823728E+04	.29106987	.71055937	.82638290	
1200.	.44743774E+04	.18446734E+04	.29318302	.71113477	.82587408	
1250.	.45965215E+04	.19058722E+04	.29516614	.71187223	.82568835	
1300.	.47181869E+04	.19666301E+04	.29701564	.71257696	.82545892	
1350.	.48350593E+04	.20268502E+04	.29871797	.71259286	.82656135	
1400.	.49512258E+04	.20861585E+04	.30031376	.71275562	.82778918	
1450.	.50671105E+04	.21450234E+04	.30180437	.71294140	.82903156	
1500.	.51827173E+04	.22035110E+04	.30318981	.71311057	.83027686	
1550.	.52978508E+04	.22613980E+04	.30448179	.71331937	.83148409	
1600.	.54121044E+04	.23188557E+04	.30571914	.71353465	.83258365	
1650.	.55169296E+04	.23758443E+04	.30684590	.71252446	.83228342	
1700.	.56212837E+04	.24326291E+04	.30792300	.71154394	.83198086	
1750.	.57249534E+04	.24875642E+04	.30891975	.71095696	.83163776	
1800.	.58282152E+04	.25423937E+04	.30987181	.71035398	.83128868	
1850.	.59311352E+04	.25969855E+04	.31076202	.70973499	.83093699	
1900.	.60337559E+04	.26477026E+04	.31161251	.71012273	.83058258	
1950.	.61359645E+04	.26970095E+04	.31239754	.71073542	.83020489	
2000.	.62378640E+04	.27460567E+04	.31314780	.71133756	.82981373	
2050.	.63395660E+04	.27947574E+04	.31385293	.71193703	.82941965	
2100.	.64411041E+04	.28432795E+04	.31453323	.71253677	.82902239	
2150.	.65422568E+04	.28913937E+04	.31516162	.71310530	.82859007	
2200.	.66429095E+04	.29392950E+04	.31577014	.71365153	.82810585	
2250.	.67434642E+04	.29868703E+04	.31634029	.71420222	.82761802	
2300.	.68439496E+04	.30343531E+04	.31689554	.71475435	.82712652	
2350.	.69443917E+04	.30815628E+04	.31741558	.71530526	.82663120	
2400.	.70442134E+04	.31286385E+04	.31791577	.71579586	.82606157	
2450.	.71395332E+04	.31755022E+04	.31838751	.71583578	.82496910	
2500.	.72347079E+04	.32222396E+04	.31884434	.71588270	.82386987	
2550.	.73297579E+04	.32687966E+04	.31927953	.71593368	.82276381	
2600.	.74247049E+04	.33153189E+04	.31970477	.71598346	.82165091	
2650.	.75148813E+04	.33616788E+04	.32010653	.71558368	.82153996	
2700.	.76040132E+04	.34079610E+04	.32049341	.71510093	.82160633	

2750.	•76929291E+04	•34541498E+04	•32086358	•71461310	•82167307
2800.	•77816449E+04	•34998747E+04	•32122879	•71422222	•82174012
2850.	•78701767E+04	•35434981E+04	•32157232	•71421821	•82180755
2900.	•79585388E+04	•35870803E+04	•32191090	•71421325	•82187532
2950.	•80467462E+04	•36305027E+04	•32223277	•71420558	•82194335
3000.	•81348127E+04	•36738899E+04	•32254967	•71419698	•82201183
3050.	•82227512E+04	•37171196E+04	•32284987	•71418581	•82208061
3100.	•83105751E+04	•37602866E+04	•32314510	•71418003	•82214982
3150.	•83982971E+04	•38032719E+04	•32343356	•71419850	•82221924
3200.	•84854040E+04	•38461203E+04	•32370713	•71417051	•82223822
3250.	•85696256E+04	•38889215E+04	•32397392	•71390875	•82198938
3300.	•86536988E+04	•39317002E+04	•32423574	•71364505	•82173950
3350.	•87376327E+04	•39744599E+04	•32449261	•71337924	•82148852
3400.	•88214380E+04	•40167503E+04	•32473954	•71318092	•82123640
3450.	•89051262E+04	•40573126E+04	•32497970	•71327636	•82098341
3500.	•89887058E+04	•40978708E+04	•32521986	•71337183	•82072942
3550.	•90721855E+04	•41383078E+04	•32545010	•71346640	•82047410
3600.	•91555746E+04	•41787454E+04	•32568032	•71356115	•82021777
3650.	•92388823E+04	•42190674E+04	•32590063	•71365475	•81996027
3700.	•93221180E+04	•42593948E+04	•32612092	•71374872	•81970193
3750.	•94052884E+04	•42987049E+04	•32633445	•71399867	•81944218
3800.	•94884017E+04	•43373074E+04	•32654301	•71435361	•81918147
3850.	•95714667E+04	•43758265E+04	•32674660	•71470936	•81891954
3900.	•96544913E+04	•44143272E+04	•32695021	•71506659	•81865657
3950.	•97353356E+04	•44527484E+04	•32714884	•71526693	•81874413
4000.	•98149969E+04	•44911560E+04	•32734746	•71538692	•81889365
4050.	•98926164E+04	•45294006E+04	•32753436	•71536434	•81888182
4100.	•99701184E+04	•45676346E+04	•32772125	•71534172	•81887010
4150.	•10047508E+05	•46058612E+04	•32790814	•71531890	•81885831
4200.	•10124790E+05	•46440176E+04	•32809007	•71529509	•81884634
4250.	•10201975E+05	•46821042E+04	•32826704	•71527073	•81883451
4300.	•10278456E+05	•47201894E+04	•32844400	•71520375	•81877412
4350.	•10354683E+05	•47581840E+04	•32861418	•71512484	•81870123
4400.	•10430814E+05	•47961809E+04	•32878437	•71504571	•81862826
4450.	•10506852E+05	•48342078E+04	•32895637	•71496632	•81855485
4500.	•10582807E+05	•48722427E+04	•32912837	•71488680	•81848155
4550.	•10658677E+05	•49101924E+04	•32929360	•71480581	•81840762
4600.	•10734474E+05	•49481531E+04	•32945882	•71472467	•81833368
4650.	•10810199E+05	•49861527E+04	•32962585	•71464337	•81825953
4700.	•10885857E+05	•50229975E+04	•32979288	•71472822	•81818501
4750.	•10961453E+05	•50597415E+04	•32995314	•71481236	•81811031
4800.	•11036575E+05	•50964831E+04	•33011341	•71486971	•81800431
4850.	•11110306E+05	•51332242E+04	•33027366	•71484144	•81780021
4900.	•11183962E+05	•51698931E+04	•33042896	•71481263	•81759549
4950.	•11257541E+05	•52065378E+04	•33058244	•71478311	•81738998
5000.	•11331054E+05	•52431122E+04	•33073097	•71475304	•81718402

TABLE 3n

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.400	.29793954				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.63046544E+03	.18429002E+03	.21241659	.72668780	.84651885
150.	.93290777E+03	.27577892E+03	.21467192	.72619437	.83501500
200.	.12110871E+04	.36734222E+03	.21927521	.72292634	.82812414
250.	.14647758E+04	.45746679E+03	.22467151	.71938203	.82293990
300.	.16976887E+04	.54490145E+03	.22992924	.71636489	.81908187
350.	.19138099E+04	.62936362E+03	.23484390	.71412863	.81553926
400.	.21160704E+04	.71143272E+03	.23948742	.71232630	.81299285
450.	.23056001E+04	.79165827E+03	.24396082	.71050364	.81028324
500.	.24876131E+04	.87007496E+03	.24835039	.71005339	.80864230
550.	.26614660E+04	.94813705E+03	.25266776	.70925047	.80718099
600.	.28277887E+04	.10248736E+04	.25691616	.70887240	.80566683
650.	.29885611E+04	.11013680E+04	.26106544	.70840083	.80467055
700.	.31421252E+04	.11764747E+04	.26508799	.70799622	.80412837
750.	.32930534E+04	.12512708E+04	.26894657	.70780474	.80298280
800.	.34405460E+04	.13246336E+04	.27262272	.70809845	.80192760
850.	.35777999E+04	.13972817E+04	.27610473	.70697803	.80027909
900.	.37137364E+04	.14680604E+04	.27938396	.70675450	.79846337
950.	.38460660E+04	.15376173E+04	.28246208	.70652678	.79725374
1000.	.39764414E+04	.16051839E+04	.28533716	.70685134	.79617982
1050.	.41056252E+04	.16713712E+04	.28802547	.70751763	.79510635
1100.	.42315073E+04	.17365070E+04	.29051669	.70792884	.79442575
1150.	.43567449E+04	.18012475E+04	.29285479	.70833885	.79369787
1200.	.44805935E+04	.18650433E+04	.29500793	.70872917	.79328679
1250.	.46032000E+04	.19275432E+04	.29703027	.70934321	.79315880
1300.	.47251433E+04	.19895436E+04	.29891228	.70991321	.79295537
1350.	.48411468E+04	.20509271E+04	.30063589	.70964121	.79384364
1400.	.49563074E+04	.21112394E+04	.30225528	.70956898	.79483812
1450.	.50711173E+04	.21710349E+04	.30376516	.70953659	.79584373
1500.	.51855173E+04	.22304017E+04	.30516553	.70948703	.79683966
1550.	.52990765E+04	.22890408E+04	.30646969	.70947022	.79775187
1600.	.54118457E+04	.23471410E+04	.30772702	.70953176	.79858388
1650.	.55172259E+04	.24046667E+04	.30886052	.70864423	.79837695
1700.	.56221614E+04	.24619891E+04	.30995146	.70780049	.79816850
1750.	.57262072E+04	.25169719E+04	.31095418	.70743260	.79788949
1800.	.58298403E+04	.25718656E+04	.31191859	.70704919	.79760227
1850.	.59331467E+04	.26264557E+04	.31281708	.70665178	.79731291
1900.	.60361694E+04	.26777539E+04	.31368154	.70709817	.79702129
1950.	.61386623E+04	.27277220E+04	.31447052	.70770712	.79669050
2000.	.62407864E+04	.27774736E+04	.31522971	.70829879	.79633805
2050.	.63427198E+04	.28268546E+04	.31594054	.70888764	.79598293
2100.	.64444967E+04	.28760914E+04	.31663010	.70947731	.79562496
2150.	.65456742E+04	.29248749E+04	.31726223	.71001159	.79520657
2200.	.66460113E+04	.29733995E+04	.31787736	.71050543	.79469786
2250.	.67462373E+04	.30215624E+04	.31845315	.71100980	.79418544
2300.	.68463799E+04	.30696525E+04	.31901615	.71151561	.79366932
2350.	.69464651E+04	.31174265E+04	.31953931	.71201954	.79314926
2400.	.70460522E+04	.31650925E+04	.32004545	.71247740	.79257282
2450.	.71421402E+04	.32125238E+04	.32052075	.71258743	.79160706
2500.	.72381068E+04	.32598088E+04	.32098328	.71271394	.79063499
2550.	.73339730E+04	.33068786E+04	.32142401	.71285199	.78965661
2600.	.74297609E+04	.33539258E+04	.32185624	.71298980	.78867198
2650.	.75198502E+04	.34007784E+04	.32226189	.71259012	.78854997
2700.	.76087204E+04	.34475722E+04	.32265478	.71209241	.78858039

2750.	.76973653E+04	.34942621E+04	.32303012	.71158966	.78861099
2800.	.77858010E+04	.35405603E+04	.32340120	.71116916	.78864178
2850.	.78740428E+04	.35850777E+04	.32375049	.71106553	.78867274
2900.	.79621064E+04	.36295723E+04	.32409554	.71096065	.78870391
2950.	.80500064E+04	.36739080E+04	.32442302	.71085266	.78873531
3000.	.81377553E+04	.37182277E+04	.32474626	.71074331	.78876670
3050.	.82253661E+04	.37623906E+04	.32505194	.71063094	.78879820
3100.	.83128537E+04	.38064776E+04	.32535338	.71052959	.78883004
3150.	.84002296E+04	.38502355E+04	.32564579	.71047586	.78886194
3200.	.84870989E+04	.38938851E+04	.32592543	.71038595	.78885622
3250.	.85717075E+04	.39374699E+04	.32619604	.71011514	.78865147
3300.	.86561760E+04	.39810462E+04	.32646239	.70984252	.78844589
3350.	.87405134E+04	.40246184E+04	.32672448	.70956779	.78823931
3400.	.88247328E+04	.40676384E+04	.32697806	.70937819	.78803190
3450.	.89088437E+04	.41084569E+04	.32722262	.70955474	.78782377
3500.	.89928538E+04	.41492649E+04	.32746718	.70973159	.78761467
3550.	.90767731E+04	.41899617E+04	.32770321	.70990806	.78740450
3600.	.91606125E+04	.42306525E+04	.32793926	.71008535	.78719349
3650.	.92443794E+04	.42712374E+04	.32816679	.71026215	.78698159
3700.	.93280823E+04	.43118223E+04	.32839432	.71043957	.78676888
3750.	.94117306E+04	.43515315E+04	.32861282	.71074179	.78655505
3800.	.94953299E+04	.43906586E+04	.32882707	.71112828	.78634030
3850.	.95788922E+04	.44297108E+04	.32903706	.71151608	.78612477
3900.	.96624216E+04	.44687454E+04	.32924705	.71190535	.78590814
3950.	.97433436E+04	.45077101E+04	.32945278	.71210692	.78599314
4000.	.98230646E+04	.45466619E+04	.32965851	.71222731	.78613620
4050.	.99011838E+04	.45854300E+04	.32985096	.71223743	.78615943
4100.	.99791931E+04	.46241881E+04	.33004340	.71224758	.78618279
4150.	.10057098E+05	.46629395E+04	.33023585	.71225764	.78620624
4200.	.10134906E+05	.47016303E+04	.33042403	.71226706	.78622992
4250.	.10212624E+05	.47402613E+04	.33060797	.71227609	.78625362
4300.	.10289115E+05	.47788923E+04	.33079190	.71220602	.78619029
4350.	.10365217E+05	.48174013E+04	.33096681	.71211480	.78610486
4400.	.10441219E+05	.48559135E+04	.33114172	.71202322	.78601922
4450.	.10517126E+05	.48944976E+04	.33132139	.71193186	.78593332
4500.	.10592944E+05	.49330911E+04	.33150107	.71184012	.78584725
4550.	.10668676E+05	.49715676E+04	.33167171	.71174693	.78576069
4600.	.10744328E+05	.50100568E+04	.33184237	.71165324	.78567394
4650.	.10819906E+05	.50486282E+04	.33201780	.71155988	.78558702
4700.	.10895413E+05	.50862645E+04	.33219321	.71159928	.78549972
4750.	.10970855E+05	.51237717E+04	.33235961	.71163767	.78541218
4800.	.11045912E+05	.51612821E+04	.33252599	.71165511	.78530124
4850.	.11119875E+05	.51987963E+04	.33269239	.71160658	.78511725
4900.	.11193766E+05	.52362539E+04	.33285453	.71155749	.78493278
4950.	.11267585E+05	.52736470E+04	.33301189	.71150755	.78474770
5000.	.11341338E+05	.53109851E+04	.33316499	.71145684	.78456201

TABLE 3o

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X					
.500	.38896524					
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO	
100.	.61025335E+03	.17173049E+03	.20344946	.72296835	.78453605	
150.	.90657015E+03	.25781998E+03	.20626507	.72528804	.77693437	
200.	.11832825E+04	.34680829E+03	.21201564	.72338060	.77470410	
250.	.14380064E+04	.43662577E+03	.21875215	.72044989	.77354423	
300.	.16729748E+04	.52530474E+03	.22529418	.71751014	.77283357	
350.	.18913546E+04	.61186622E+03	.23135237	.71513894	.77169621	
400.	.20960515E+04	.69653148E+03	.23697768	.71312989	.77105603	
450.	.22880490E+04	.77953842E+03	.24227683	.71111472	.76991990	
500.	.24719794E+04	.86088905E+03	.24734886	.71024399	.76938873	
550.	.26475736E+04	.94160827E+03	.25222600	.70919819	.76882129	
600.	.28157516E+04	.10209596E+04	.25692828	.70859435	.76812203	
650.	.29778539E+04	.10997608E+04	.26144636	.70792581	.76769148	
700.	.31326453E+04	.11772083E+04	.26576702	.70722725	.76760974	
750.	.32847827E+04	.12540802E+04	.26986675	.70685561	.76690483	
800.	.34333752E+04	.13294318E+04	.27373845	.70695375	.76622517	
850.	.35729013E+04	.14038862E+04	.27737989	.70593397	.76519794	
900.	.37109353E+04	.14762919E+04	.28078911	.70581583	.76393192	
950.	.38450096E+04	.15475728E+04	.28397356	.70554419	.76314070	
1000.	.39768897E+04	.16171798E+04	.28693614	.70561931	.76240807	
1050.	.41074295E+04	.16851945E+04	.28969716	.70609689	.76162888	
1100.	.42340776E+04	.17520335E+04	.29224728	.70626366	.76110472	
1150.	.43600000E+04	.18184304E+04	.29463971	.70644941	.76051348	
1200.	.44844708E+04	.18837283E+04	.29683284	.70665084	.76020936	
1250.	.46076401E+04	.19475716E+04	.29889441	.70713590	.76016209	
1300.	.47298931E+04	.20108354E+04	.30080892	.70756363	.75999796	
1350.	.48453305E+04	.20733880E+04	.30255381	.70704238	.76074217	
1400.	.49598403E+04	.21347302E+04	.30419679	.70677193	.76157997	
1450.	.50739549E+04	.21954743E+04	.30572595	.70656240	.76242670	
1500.	.51875281E+04	.22557255E+04	.30714126	.70633767	.76324974	
1550.	.52998014E+04	.23151218E+04	.30845759	.70612436	.76393185	
1600.	.54113767E+04	.23738476E+04	.30973489	.70606558	.76455766	
1650.	.55174394E+04	.24318935E+04	.31087514	.70530831	.76445541	
1700.	.56230895E+04	.24897493E+04	.31197992	.70460547	.76435238	
1750.	.57275610E+04	.25448795E+04	.31298860	.70441889	.76413969	
1800.	.58316097E+04	.25999443E+04	.31396536	.70421639	.76391588	
1850.	.59353481E+04	.26546480E+04	.31487215	.70400135	.76369025	
1900.	.60388204E+04	.27065817E+04	.31575056	.70449042	.76346294	
1950.	.61415951E+04	.27572604E+04	.31654351	.70507740	.76317552	
2000.	.62439142E+04	.28077704E+04	.31731163	.70563693	.76285575	
2050.	.63460484E+04	.28578886E+04	.31802816	.70619337	.76253355	
2100.	.64480318E+04	.29079005E+04	.31872695	.70675097	.76220869	
2150.	.65491128E+04	.29574170E+04	.31936286	.70721961	.76179025	
2200.	.66488772E+04	.30065934E+04	.31998458	.70762415	.76123128	
2250.	.67485072E+04	.30553606E+04	.32056599	.70804794	.76066840	
2300.	.68480311E+04	.31040763E+04	.32113677	.70847308	.76010160	
2350.	.69474734E+04	.31524338E+04	.32166304	.70889526	.75953059	
2400.	.70465184E+04	.32007105E+04	.32217512	.70928404	.75891875	
2450.	.71429732E+04	.32487308E+04	.32265399	.70941821	.75803221	
2500.	.72393185E+04	.32965659E+04	.32312221	.70958220	.75713985	
2550.	.73355762E+04	.33441344E+04	.32356851	.70976854	.75624159	
2600.	.74317660E+04	.33916936E+04	.32400772	.70995490	.75533734	
2650.	.75217160E+04	.34390246E+04	.32441725	.70955421	.75520399	
2700.	.76103445E+04	.34863159E+04	.32481615	.70904727	.75520702	

2750.	.76987396E+04	.35334934E+04	.32519666	.70853518	.75521000
2800.	.77869175E+04	.35803390E+04	.32557363	.70809353	.75521296
2850.	.78748946E+04	.36257018E+04	.32592867	.70790540	.75521602
2900.	.79626857E+04	.36710595E+04	.32628017	.70771568	.75521905
2950.	.80503053E+04	.37162574E+04	.32661328	.70752273	.75522218
3000.	.81377667E+04	.37614577E+04	.32694285	.70732806	.75522527
3050.	.82250827E+04	.38065014E+04	.32725403	.70713001	.75522845
3100.	.83122661E+04	.38514379E+04	.32756167	.70695147	.75523154
3150.	.83993313E+04	.38958278E+04	.32785802	.70685570	.75523472
3200.	.84859901E+04	.39401360E+04	.32814374	.70673309	.75521130
3250.	.85709612E+04	.39843565E+04	.32841815	.70647774	.75504820
3300.	.86558008E+04	.40285801E+04	.32868903	.70622071	.75488436
3350.	.87405192E+04	.40728110E+04	.32895636	.70596187	.75471982
3400.	.88251278E+04	.41164293E+04	.32921660	.70580065	.75455447
3450.	.89096377E+04	.41574776E+04	.32946554	.70605756	.75438867
3500.	.89940555E+04	.41985083E+04	.32971449	.70631524	.75422196
3550.	.90783923E+04	.42394377E+04	.32995634	.70657318	.75405446
3600.	.91626590E+04	.42803555E+04	.33019820	.70683229	.75388636
3650.	.92468611E+04	.43211774E+04	.33043296	.70709145	.75371736
3700.	.93310097E+04	.43619940E+04	.33066772	.70735166	.75354776
3750.	.94151124E+04	.44020744E+04	.33089120	.70770675	.75337726
3800.	.94991772E+04	.44416970E+04	.33111112	.70812646	.75320615
3850.	.95832132E+04	.44812541E+04	.33132750	.70854763	.75303421
3900.	.96672268E+04	.45207935E+04	.33154389	.70897064	.75286146
3950.	.97483884E+04	.45602721E+04	.33175673	.70918869	.75295832
4000.	.98283779E+04	.45997393E+04	.33196956	.70932763	.75311276
4050.	.99071743E+04	.46390014E+04	.33216756	.70938583	.75318336
4100.	.99858731E+04	.46782545E+04	.33236555	.70944413	.75325419
4150.	.10064482E+05	.47175009E+04	.33256356	.70950275	.75332548
4200.	.10143005E+05	.47566962E+04	.33275801	.70956099	.75339693
4250.	.10221451E+05	.47958419E+04	.33294891	.70961907	.75346873
4300.	.10297945E+05	.48349882E+04	.33313982	.70954785	.75340345
4350.	.10373862E+05	.48739813E+04	.33331944	.70944256	.75330331
4400.	.10449675E+05	.49129779E+04	.33349905	.70933691	.75320310
4450.	.10525389E+05	.49520897E+04	.33368642	.70923176	.75310257
4500.	.10601007E+05	.49912112E+04	.33387378	.70912611	.75300163
4550.	.10676537E+05	.50301842E+04	.33404984	.70901884	.75290044
4600.	.10751981E+05	.50691698E+04	.33422592	.70891109	.75279881
4650.	.10827347E+05	.51082818E+04	.33440973	.70880390	.75269708
4700.	.10902638E+05	.51466780E+04	.33459354	.70879744	.75259488
4750.	.10977859E+05	.51849155E+04	.33476607	.70878969	.75249249
4800.	.11052777E+05	.52231613E+04	.33493859	.70876645	.75237351
4850.	.11126873E+05	.52614157E+04	.33511112	.70869496	.75220307
4900.	.11200897E+05	.52996285E+04	.33528010	.70862284	.75203214
4950.	.11274851E+05	.53377369E+04	.33544134	.70854955	.75186069
5000.	.11348740E+05	.53758042E+04	.33559902	.70847558	.75168864

TABLE 3p

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W .600	X .48845237				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.58955315E+03	.15914020E+03	.19448232	.72048206	.72426168
150.	.87871416E+03	.23951752E+03	.19785823	.72587934	.71961524
200.	.11531332E+04	.32544129E+03	.20475607	.72551033	.72143417
250.	.14083543E+04	.41445597E+03	.21283279	.72322271	.72394582
300.	.16451429E+04	.50395942E+03	.22065910	.72032734	.72622305
350.	.18656492E+04	.59232324E+03	.22786085	.71769665	.72739986
400.	.20728086E+04	.67938464E+03	.23446793	.71536374	.72864000
450.	.22673067E+04	.76503869E+03	.24059285	.71303293	.72905505
500.	.24532461E+04	.84923158E+03	.24634733	.71164407	.72964551
550.	.26307004E+04	.93260086E+03	.25178424	.71023835	.72999277
600.	.28008530E+04	.10145537E+04	.25694039	.70932889	.73012298
650.	.29643772E+04	.10956832E+04	.26182727	.70837517	.73027530
700.	.31206357E+04	.11754883E+04	.26644604	.70734946	.73070512
750.	.32740381E+04	.12544750E+04	.27078692	.70672328	.73044644
800.	.34237645E+04	.13318467E+04	.27485417	.70656475	.73014456
850.	.35655437E+04	.14081676E+04	.27865503	.70556706	.72970673
900.	.37055366E+04	.14822930E+04	.28219427	.70544831	.72894070
950.	.38413429E+04	.15553324E+04	.28548505	.70508779	.72855121
1000.	.39747055E+04	.16269599E+04	.28853511	.70489875	.72814642
1050.	.41065394E+04	.16968202E+04	.29136885	.70515285	.72764431
1100.	.42339254E+04	.17654042E+04	.29397787	.70503984	.72727493
1150.	.43604653E+04	.18334629E+04	.29642462	.70497701	.72681365
1200.	.44855832E+04	.19002601E+04	.29865775	.70498459	.72662570
1250.	.46094291E+04	.19654965E+04	.30075853	.70533073	.72668234
1300.	.47320282E+04	.20300462E+04	.30270555	.70560517	.72657134
1350.	.48472581E+04	.20937694E+04	.30447171	.70487843	.72724379
1400.	.49615379E+04	.21561749E+04	.30613830	.70444967	.72800430
1450.	.50754070E+04	.22178905E+04	.30768672	.70410838	.72877283
1500.	.51886021E+04	.22790339E+04	.30911699	.70375653	.72950181
1550.	.52999346E+04	.23391964E+04	.31044548	.70337860	.73002100
1600.	.54106635E+04	.23985311E+04	.31174276	.70323670	.73050439
1650.	.55175539E+04	.24570818E+04	.31288975	.70261641	.73051811
1700.	.56240720E+04	.25154744E+04	.31400837	.70205667	.73053212
1750.	.57290257E+04	.25709041E+04	.31502302	.70200008	.73038801
1800.	.58335391E+04	.26263051E+04	.31601214	.70192495	.73022888
1850.	.59377615E+04	.26812976E+04	.31692721	.70183857	.73006852
1900.	.60417369E+04	.27339460E+04	.31781958	.70234825	.72990693
1950.	.61447902E+04	.27854054E+04	.31861649	.70288920	.72965929
2000.	.62472675E+04	.28367482E+04	.31939354	.70338876	.72936585
2050.	.63495648E+04	.28876827E+04	.32011577	.70388474	.72907022
2100.	.64517154E+04	.29385532E+04	.32082381	.70438197	.72877216
2150.	.65525593E+04	.29888905E+04	.32146348	.70474595	.72833924
2200.	.66514514E+04	.30387603E+04	.32209180	.70501707	.72770363
2250.	.67501758E+04	.30881581E+04	.32267885	.70531975	.72706387
2300.	.68487589E+04	.31375274E+04	.32325737	.70562306	.72641972
2350.	.69472270E+04	.31864973E+04	.32378675	.70592245	.72577114
2400.	.70453743E+04	.32354161E+04	.32430480	.70619933	.72509441
2450.	.71417248E+04	.32840585E+04	.32478722	.70630316	.72423847
2500.	.72379625E+04	.33324505E+04	.32526113	.70645544	.72337677
2550.	.73341100E+04	.33805043E+04	.32571300	.70664453	.72250949
2600.	.74301855E+04	.34285616E+04	.32615918	.70683379	.72163634
2650.	.75199374E+04	.34763562E+04	.32657260	.70643091	.72149181
2700.	.76083477E+04	.35241318E+04	.32697751	.70592095	.72147600

2750.	.76965195E+04	.35717826E+04	.32736320	.70540609	.72146003
2800.	.77844697E+04	.36191439E+04	.32774605	.70495375	.72144417
2850.	.78722121E+04	.36652805E+04	.32810684	.70470093	.72142806
2900.	.79597629E+04	.37114275E+04	.32846481	.70444646	.72141194
2950.	.80471372E+04	.37574141E+04	.32880354	.70418831	.72139585
3000.	.81343460E+04	.38034189E+04	.32913944	.70392824	.72137943
3050.	.82214055E+04	.38492652E+04	.32945611	.70366474	.72136315
3100.	.83083268E+04	.38949490E+04	.32976995	.70343321	.72134671
3150.	.83951234E+04	.39397771E+04	.33007024	.70333428	.72133021
3200.	.84816048E+04	.39845458E+04	.33036203	.70321693	.72129646
3250.	.85669081E+04	.40291978E+04	.33064026	.70300959	.72117235
3300.	.86520875E+04	.40738600E+04	.33091566	.70280058	.72104756
3350.	.87371572E+04	.41185369E+04	.33118823	.70259018	.72092230
3400.	.88221258E+04	.41625725E+04	.33145512	.70248354	.72079652
3450.	.89070040E+04	.42038223E+04	.33170845	.70281952	.72067028
3500.	.89918013E+04	.42450492E+04	.33196180	.70315663	.72054339
3550.	.90765260E+04	.42861840E+04	.33220947	.70349471	.72041581
3600.	.91611890E+04	.43273018E+04	.33245713	.70383410	.72028775
3650.	.92457986E+04	.43683345E+04	.33269913	.70417434	.72015904
3700.	.93303640E+04	.44093555E+04	.33294112	.70451606	.72002994
3750.	.94148931E+04	.44497745E+04	.33316957	.70492466	.71990007
3800.	.94993932E+04	.44898556E+04	.33339518	.70537945	.71976969
3850.	.95838744E+04	.45298804E+04	.33361795	.70583596	.71963866
3900.	.96683441E+04	.45698876E+04	.33384073	.70629461	.71950712
3950.	.97499330E+04	.46098440E+04	.33406066	.70654646	.71933048
4000.	.98304359E+04	.46497890E+04	.33428059	.70672538	.719181478
4050.	.99101144E+04	.46895071E+04	.33448416	.70684959	.71994506
4100.	.99897140E+04	.47292164E+04	.33468770	.70697428	.72007609
4150.	.10069239E+05	.47689199E+04	.33489125	.70709931	.72020758
4200.	.10148697E+05	.48085811E+04	.33509197	.70722459	.72033968
4250.	.10228096E+05	.48482030E+04	.33528985	.70735006	.72047237
4300.	.10304583E+05	.48878264E+04	.33548773	.70727984	.72040599
4350.	.10380247E+05	.49272643E+04	.33567205	.70715887	.72028926
4400.	.10455801E+05	.49667061E+04	.33585639	.70703750	.72017236
4450.	.10531249E+05	.50063051E+04	.33605143	.70691680	.72005499
4500.	.10606598E+05	.50459156E+04	.33624647	.70679563	.71993736
4550.	.10681852E+05	.50853444E+04	.33642797	.70667262	.71981937
4600.	.10757016E+05	.51247871E+04	.33660946	.70654901	.71970096
4650.	.10832095E+05	.51643995E+04	.33680167	.70642629	.71958227
4700.	.10907093E+05	.52035076E+04	.33699387	.70637417	.71946307
4750.	.10982017E+05	.52424272E+04	.33717252	.70632059	.71934370
4800.	.11056709E+05	.52813594E+04	.33735119	.70625640	.71921342
4850.	.11130819E+05	.53203047E+04	.33752984	.70615946	.71904969
4900.	.11204857E+05	.53592230E+04	.33770567	.70606199	.71888550
4950.	.11278824E+05	.53979961E+04	.33787077	.70596288	.71872076
5000.	.11352726E+05	.54367427E+04	.33803305	.70586318	.71855551

TABLE 3q

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.700	.59763823				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.56835074E+03	.14652154E+03	.18551519	.71960539	.66576292
150.	.84927157E+03	.22085445E+03	.18945138	.72851450	.66317774
200.	.11204919E+04	.30317323E+03	.19749650	.72992335	.66843098
250.	.13755915E+04	.39080992E+03	.20691343	.72830380	.67423955
300.	.16139042E+04	.48062830E+03	.21602403	.72538816	.67932061
350.	.18363578E+04	.57041569E+03	.22436932	.72231945	.68270197
400.	.20459799E+04	.65960442E+03	.23195819	.71949455	.68578154
450.	.22429893E+04	.74771519E+03	.23890887	.71667666	.68771402
500.	.24310226E+04	.83461079E+03	.24534579	.71463389	.68943038
550.	.26104552E+04	.92060130E+03	.25134249	.71270626	.69070730
600.	.27827040E+04	.10051192E+04	.25695251	.71138106	.69167700
650.	.29477443E+04	.10885921E+04	.26220818	.71002045	.69242633
700.	.31057359E+04	.11707601E+04	.26712506	.70861646	.69341657
750.	.32604587E+04	.12519020E+04	.27170710	.70763507	.69360781
800.	.34113500E+04	.13313239E+04	.27596989	.70713812	.69368431
850.	.35553443E+04	.14095832E+04	.27993017	.70605845	.69380094
900.	.36971200E+04	.14855459E+04	.28359942	.70580182	.69348212
950.	.38346307E+04	.15603798E+04	.28699653	.70529348	.69347558
1000.	.39694391E+04	.16339829E+04	.29013408	.70482347	.69338353
1050.	.41024838E+04	.17056974E+04	.29304053	.70481082	.69313947
1100.	.42305691E+04	.17760696E+04	.29570846	.70437273	.69292275
1150.	.43576443E+04	.18457839E+04	.29820954	.70403209	.69258434
1200.	.44834333E+04	.19140653E+04	.30048266	.70383904	.69252137
1250.	.46080842E+04	.19807559E+04	.30262266	.70402950	.69270524
1300.	.47310694E+04	.20466149E+04	.30460219	.70413544	.69266122
1350.	.48465168E+04	.21115059E+04	.30638963	.70325278	.69333676
1400.	.49610652E+04	.21750189E+04	.30807981	.70270837	.69410181
1450.	.50752190E+04	.22377395E+04	.30964751	.70228411	.69487507
1500.	.51885681E+04	.22997865E+04	.31109271	.70185893	.69559133
1550.	.52993721E+04	.23607322E+04	.31243338	.70135049	.69601703
1600.	.54096666E+04	.24206616E+04	.31375063	.70116628	.69642353
1650.	.55175526E+04	.24797061E+04	.31490437	.70068844	.69656476
1700.	.56251147E+04	.25386490E+04	.31603683	.70027144	.69670745
1750.	.57306142E+04	.25946075E+04	.31705745	.70027312	.69663398
1800.	.58356485E+04	.26505889E+04	.31805891	.70025193	.69654095
1850.	.59404137E+04	.27061303E+04	.31898227	.70022001	.69644717
1900.	.60449535E+04	.27596077E+04	.31988860	.70071977	.69635269
1950.	.61482788E+04	.28119455E+04	.32068947	.70118293	.69614101
2000.	.62508721E+04	.28642257E+04	.32147545	.70158643	.69586749
2050.	.63532868E+04	.29160865E+04	.32220338	.70198548	.69559181
2100.	.64555577E+04	.29679325E+04	.32292067	.70238558	.69531395
2150.	.65559994E+04	.30192129E+04	.32356409	.70259566	.69485195
2200.	.66536699E+04	.30698379E+04	.32419902	.70267983	.69411274
2250.	.67511277E+04	.31199060E+04	.32479169	.70281287	.69336900
2300.	.68483980E+04	.31699717E+04	.32537798	.70294567	.69262052
2350.	.69455075E+04	.32195987E+04	.32591048	.70307321	.69186733
2400.	.70423425E+04	.32692077E+04	.32643447	.70318667	.69109582
2450.	.71380344E+04	.33185210E+04	.32692046	.70319561	.69022031
2500.	.72335932E+04	.33674861E+04	.32740007	.70327800	.68933909
2550.	.73290410E+04	.34160125E+04	.32785748	.70341689	.68845240
2600.	.74243986E+04	.34645550E+04	.32831065	.70355618	.68756009
2650.	.75138843E+04	.35128016E+04	.32872796	.70314924	.68740437
2700.	.76021067E+04	.35610484E+04	.32913888	.70264386	.68737876

2750.	.76900871E+04	.36091602E+04	.32952974	.70213353	.68735293
2800.	.77778433E+04	.36569970E+04	.32991846	.70168337	.68732716
2850.	.78653885E+04	.37038068E+04	.33028501	.70139184	.68730113
2900.	.79527393E+04	.37506406E+04	.33064944	.70109855	.68727501
2950.	.80399092E+04	.37973094E+04	.33099379	.70080146	.68724879
3000.	.81269121E+04	.38440103E+04	.33133603	.70050246	.68722237
3050.	.82137618E+04	.38905484E+04	.33165818	.70019979	.68719595
3100.	.83004693E+04	.39368362E+04	.33197823	.69994659	.68716931
3150.	.83870495E+04	.39818355E+04	.33228247	.69989568	.68714254
3200.	.84733926E+04	.40267911E+04	.33258033	.69983359	.68710594
3250.	.85589894E+04	.40715953E+04	.33286238	.69971725	.68701793
3300.	.86444737E+04	.41164097E+04	.33314231	.69959992	.68692950
3350.	.87298555E+04	.41612382E+04	.33342010	.69948151	.68684069
3400.	.88151470E+04	.42054442E+04	.33369364	.69946437	.68675147
3450.	.89003569E+04	.42468700E+04	.33395137	.69987692	.68666198
3500.	.89854954E+04	.42882660E+04	.33420911	.70029107	.68657197
3550.	.90705709E+04	.43295817E+04	.33446258	.70070660	.68648151
3600.	.91555950E+04	.43708730E+04	.33471607	.70112416	.68639070
3650.	.92405746E+04	.44120912E+04	.33496529	.70154300	.68629940
3700.	.93255199E+04	.44532921E+04	.33521452	.70196374	.68620784
3750.	.94104383E+04	.44940120E+04	.33544794	.70242627	.68611564
3800.	.94953383E+04	.45345049E+04	.33567923	.70291859	.68602308
3850.	.95802290E+04	.45749503E+04	.33590840	.70341295	.68593013
3900.	.96651174E+04	.46153782E+04	.33613757	.70390959	.68583670
3950.	.97473519E+04	.46557645E+04	.33636460	.70421605	.68600172
4000.	.98286521E+04	.46961393E+04	.33659164	.70445995	.68623453
4050.	.99094486E+04	.47362659E+04	.33680075	.70467109	.68643721
4100.	.99901898E+04	.47763829E+04	.33700985	.70488324	.68664095
4150.	.10070880E+05	.48164947E+04	.33721896	.70509609	.68684556
4200.	.10151526E+05	.48565741E+04	.33742593	.70530955	.68705107
4250.	.10232136E+05	.48966227E+04	.33763078	.70552382	.68725746
4300.	.10308606E+05	.49366731E+04	.33783563	.70545777	.68719094
4350.	.10383936E+05	.49765061E+04	.33802468	.70531946	.68705563
4400.	.10459150E+05	.50163427E+04	.33821373	.70518070	.68691998
4450.	.10534252E+05	.50563795E+04	.33841645	.70504282	.68678396
4500.	.10609248E+05	.50964277E+04	.33861917	.70490447	.68664753
4550.	.10684143E+05	.51362616E+04	.33880608	.70476406	.68651068
4600.	.10758941E+05	.51761090E+04	.33899301	.70462304	.68637331
4650.	.10833647E+05	.52161709E+04	.33919361	.70448301	.68623569
4700.	.10908267E+05	.52559226E+04	.33939420	.70438679	.68609755
4750.	.10982805E+05	.52954553E+04	.33957899	.70428878	.68595909
4800.	.11057170E+05	.53350044E+04	.33976377	.70418418	.68581425
4850.	.11131154E+05	.53745708E+04	.33994857	.70405990	.68565021
4900.	.11205063E+05	.54141249E+04	.34013123	.70393496	.68548556
4950.	.11278901E+05	.54533490E+04	.34030022	.70380836	.68532059
5000.	.11352671E+05	.54928446E+04	.34046707	.70368103	.68515503

TABLE 3r

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W	X				
.800	.71801377				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.54663139E+03	.13387720E+03	.17654806	.72085994	.60910936
150.	.81817216E+03	.20181120E+03	.18104454	.73398106	.60775089
200.	.10852040E+04	.27992533E+03	.19023693	.73750335	.61582423
250.	.13394735E+04	.36551468E+03	.20099407	.73656748	.62453449
300.	.15789442E+04	.45502885E+03	.21138895	.73351689	.63221004
350.	.18031100E+04	.54575910E+03	.22087780	.72974863	.63766654
400.	.20151614E+04	.63671915E+03	.22944844	.72618458	.64252764
450.	.22146647E+04	.72702366E+03	.23722489	.72263615	.64593110
500.	.24048655E+04	.81641954E+03	.24434426	.71974646	.64876850
550.	.25863929E+04	.90497371E+03	.25090073	.71706818	.65098330
600.	.27608586E+04	.99199066E+03	.25696462	.71517102	.65279682
650.	.29275105E+04	.10778118E+04	.26258910	.71323429	.65415365
700.	.30875308E+04	.11623355E+04	.26780409	.71137237	.65575036
750.	.32436272E+04	.12456743E+04	.27262727	.70989761	.65639271
800.	.33957097E+04	.13271757E+04	.27708561	.70895081	.65684619
850.	.35418572E+04	.14074618E+04	.28120532	.70764910	.65747888
900.	.36851944E+04	.14854152E+04	.28500458	.70707314	.65755134
950.	.38243637E+04	.15620836E+04	.28850802	.70633831	.65790677
1000.	.39605623E+04	.16375834E+04	.29173305	.70556827	.65811043
1050.	.40947098E+04	.17111496E+04	.29471222	.70523407	.65810384
1100.	.42234425E+04	.17833547E+04	.29743906	.70441213	.65803679
1150.	.43509508E+04	.18547041E+04	.29999445	.70375700	.65781321
1200.	.44774339E+04	.19244395E+04	.30230757	.70335393	.65788377
1250.	.46030368E+04	.19926604E+04	.30448679	.70336310	.65821846
1300.	.47264531E+04	.20598568E+04	.30649882	.70327811	.65825544
1350.	.48426198E+04	.21259079E+04	.30830754	.70229575	.65901064
1400.	.49580241E+04	.21905903E+04	.31002132	.70167986	.65986400
1450.	.50730898E+04	.22543630E+04	.31160828	.70122544	.66072697
1500.	.51872222E+04	.23173331E+04	.31306844	.70078639	.66151400
1550.	.52979868E+04	.23790925E+04	.31442128	.70018282	.66191749
1600.	.54083376E+04	.24396084E+04	.31575850	.70000107	.66231449
1650.	.55174125E+04	.24991432E+04	.31691899	.69966887	.66259481
1700.	.56262218E+04	.25586685E+04	.31806528	.69938946	.66287781
1750.	.57323406E+04	.26154909E+04	.31909187	.69934986	.66287712
1800.	.58379596E+04	.26724097E+04	.32010569	.69928050	.66285137
1850.	.59433345E+04	.27288793E+04	.32103733	.69919992	.66282553
1900.	.60485077E+04	.27833514E+04	.32195763	.69964690	.66279934
1950.	.61520966E+04	.28367059E+04	.32276246	.69999001	.66261973
2000.	.62547538E+04	.28900711E+04	.32355736	.70024976	.66235937
2050.	.63572329E+04	.29430135E+04	.32429099	.70050419	.66209709
2100.	.64595676E+04	.29959993E+04	.32501753	.70075874	.66183264
2150.	.65594122E+04	.30483946E+04	.32566472	.70075215	.66132636
2200.	.66554554E+04	.30998647E+04	.32630624	.70058431	.66045629
2250.	.67512258E+04	.31506661E+04	.32690455	.70048882	.65958123
2300.	.68467505E+04	.32014937E+04	.32749859	.70039216	.65870116
2350.	.69420530E+04	.32518465E+04	.32803420	.70028852	.65781580
2400.	.70370944E+04	.33022168E+04	.32856415	.70017719	.65691935
2450.	.71314761E+04	.33522764E+04	.32905370	.70001342	.65597312
2500.	.72256858E+04	.34018430E+04	.32953899	.69995740	.65502135
2550.	.73197452E+04	.34508330E+04	.33000198	.69998472	.65406402
2600.	.74136736E+04	.34998524E+04	.33046213	.70001189	.65310100
2650.	.75028133E+04	.35485414E+04	.33088331	.69959888	.65293428
2700.	.75908840E+04	.35972512E+04	.33130025	.69910650	.65290809

2750.	.76787138E+04	.36458153E+04	.33169628	.69860938	.65288180
2800.	.77663175E+04	.36940810E+04	.33209089	.69817721	.65285541
2850.	.78537119E+04	.37414242E+04	.33246319	.69788133	.65282890
2900.	.79409101E+04	.37888011E+04	.33283408	.69758359	.65280224
2950.	.80279281E+04	.38360044E+04	.33318405	.69728217	.65277549
3000.	.81147779E+04	.38832495E+04	.33353262	.69697893	.65274855
3050.	.82014734E+04	.39303231E+04	.33386027	.69667201	.65272150
3100.	.82880274E+04	.39770165E+04	.33418652	.69643839	.65269428
3150.	.83744539E+04	.40218219E+04	.33449469	.69650282	.65266704
3200.	.84607061E+04	.40665901E+04	.33479863	.69656216	.65263531
3250.	.85465509E+04	.41111629E+04	.33508449	.69659526	.65258038
3300.	.86322918E+04	.41557366E+04	.33536894	.69662800	.65252524
3350.	.87179414E+04	.42003161E+04	.33565197	.69666047	.65246984
3400.	.88035080E+04	.42443565E+04	.33593216	.69677968	.65241416
3450.	.88890038E+04	.42859352E+04	.33619429	.69726492	.65235832
3500.	.89744371E+04	.43274776E+04	.33645642	.69775217	.65230215
3550.	.90598179E+04	.43689514E+04	.33671571	.69824145	.65224568
3600.	.91451562E+04	.44103952E+04	.33697501	.69873309	.65218902
3650.	.92304607E+04	.44517787E+04	.33723146	.69922651	.65213207
3700.	.93157388E+04	.44931391E+04	.33748792	.69972222	.65207488
3750.	.94010025E+04	.45341167E+04	.33772631	.70023910	.65201739
3800.	.94862558E+04	.45749630E+04	.33796329	.70077204	.65195959
3850.	.95715103E+04	.46157700E+04	.33819885	.70130740	.65190158
3900.	.96567731E+04	.46565598E+04	.33843441	.70184523	.65184331
3950.	.97399053E+04	.46973162E+04	.33866855	.70223069	.65206493
4000.	.98223335E+04	.47380612E+04	.33890268	.70256903	.65236526
4050.	.99045206E+04	.47785357E+04	.33911735	.70289203	.65265297
4100.	.99866819E+04	.48190006E+04	.33933200	.70321649	.65294216
4150.	.10068821E+05	.48594585E+04	.33954666	.70354227	.65323257
4200.	.10150948E+05	.48998937E+04	.33975990	.70386935	.65352439
4250.	.10233070E+05	.49403078E+04	.33997172	.70419790	.65381766
4300.	.10309509E+05	.49807228E+04	.34018354	.70413980	.65375201
4350.	.10384414E+05	.50208875E+04	.34037730	.70398285	.65359606
4400.	.10459194E+05	.50610556E+04	.34057107	.70382526	.65343973
4450.	.10533853E+05	.51014665E+04	.34078147	.70366862	.65328285
4500.	.10608402E+05	.51418890E+04	.34099187	.70351164	.65312570
4550.	.10682840E+05	.51820629E+04	.34118421	.70335238	.65296797
4600.	.10757173E+05	.52222497E+04	.34137655	.70319245	.65280974
4650.	.10831408E+05	.52626954E+04	.34158555	.70303373	.65265114
4700.	.10905548E+05	.53029961E+04	.34179453	.70289634	.65249195
4750.	.10979599E+05	.53430468E+04	.34198545	.70275691	.65233244
4800.	.11053519E+05	.53831159E+04	.34217637	.70261407	.65216970
4850.	.11127213E+05	.54232060E+04	.34236729	.70246155	.65199817
4900.	.11200828E+05	.54632969E+04	.34255681	.70230850	.65182602
4950.	.11274367E+05	.55031564E+04	.34272966	.70215338	.65165351
5000.	.11347834E+05	.55430167E+04	.34290110	.70199765	.65148032

TABLE 3s

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

W .900	X .85139200				
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL NO	SCHMIDT NO
100.	.52438014E+03	.12121068E+03	.16758093	.72498653	.55437376
150.	.78534441E+03	.18236519E+03	.17263769	.74345350	.55347344
200.	.10471081E+04	.25560578E+03	.18297736	.74958034	.56375789
250.	.12997392E+04	.33836579E+03	.19507471	.74932587	.57495551
300.	.15399214E+04	.42682236E+03	.20675388	.74594198	.58499059
350.	.17654971E+04	.51788663E+03	.21738627	.74107883	.59237144
400.	.19799038E+04	.61015036E+03	.22693870	.73640338	.59893786
450.	.21818484E+04	.70229221E+03	.23554090	.73176737	.60375187
500.	.23742745E+04	.79390372E+03	.24334273	.72774873	.60769495
550.	.25580075E+04	.88492594E+03	.25045897	.72398817	.61084759
600.	.27348075E+04	.97433645E+03	.25697674	.72129284	.61350253
650.	.29031657E+04	.10624986E+04	.26297001	.71853789	.61547277
700.	.30655426E+04	.11493529E+04	.26848311	.71609547	.61771808
750.	.32230623E+04	.12349344E+04	.27354744	.71393301	.61880987
800.	.33763567E+04	.13185452E+04	.27820134	.71238130	.61963675
850.	.35245662E+04	.14009702E+04	.28248046	.71066542	.62074345
900.	.36691887E+04	.14811170E+04	.28640973	.70952618	.62114791
950.	.38099470E+04	.15596683E+04	.29001950	.70845762	.62184166
1000.	.39474574E+04	.16369406E+04	.29333202	.70736567	.62232191
1050.	.40825700E+04	.17123416E+04	.29638391	.70663937	.62253054
1100.	.42118824E+04	.17864301E+04	.29916965	.70535494	.62260921
1150.	.43396976E+04	.18593752E+04	.30177937	.70433939	.62249178
1200.	.44668969E+04	.19305144E+04	.30413248	.70371316	.62270399
1250.	.45936178E+04	.20003667E+04	.30635092	.70350051	.62321257
1300.	.47175142E+04	.20689356E+04	.30839546	.70319245	.62334433
1350.	.48349927E+04	.21361352E+04	.31022546	.70217362	.62425723
1400.	.49519476E+04	.22020748E+04	.31196283	.70153089	.62528432
1450.	.50686657E+04	.22669692E+04	.31356907	.70110202	.62632369
1500.	.51843252E+04	.23308957E+04	.31504417	.70071406	.62726655
1550.	.52956340E+04	.23935198E+04	.31640918	.70005153	.62772100
1600.	.54066238E+04	.24546261E+04	.31776637	.69992052	.62817744
1650.	.55171097E+04	.25146622E+04	.31893360	.69973279	.62860800
1700.	.56274016E+04	.25748307E+04	.32009374	.69957842	.62904287
1750.	.57342221E+04	.26330032E+04	.32112629	.69935706	.62911675
1800.	.58404989E+04	.26913775E+04	.32215246	.69909590	.62915946
1850.	.59465588E+04	.27493241E+04	.32309240	.69882190	.62920255
1900.	.60524456E+04	.28050301E+04	.32402665	.69915599	.62924597
1950.	.61562859E+04	.28596002E+04	.32483544	.69932146	.62909425
2000.	.62589452E+04	.29142600E+04	.32563927	.69937421	.62884027
2050.	.63614236E+04	.29685053E+04	.32637860	.69942017	.62858439
2100.	.64637542E+04	.30228639E+04	.32711438	.69946480	.62832638
2150.	.65627754E+04	.30766193E+04	.32776534	.69916037	.62776077
2200.	.66567162E+04	.31290683E+04	.32841346	.69866007	.62673227
2250.	.67503097E+04	.31806973E+04	.32901739	.69826487	.62569840
2300.	.68435830E+04	.32323875E+04	.32961920	.69786691	.62465921
2350.	.69365593E+04	.32835699E+04	.33015793	.69746040	.62361447
2400.	.70292456E+04	.33348106E+04	.33069382	.69704948	.62256269
2450.	.71215533E+04	.33857292E+04	.33118694	.696611962	.62149418
2500.	.72136269E+04	.34359490E+04	.33167792	.69634348	.62042000
2550.	.73054864E+04	.34854015E+04	.33214647	.69618708	.61934000
2600.	.73971526E+04	.35348978E+04	.33261360	.69602959	.61825437
2650.	.74858556E+04	.35840285E+04	.33303866	.69560811	.61807689
2700.	.75738196E+04	.36332011E+04	.33346162	.69513853	.61805961

2750.	.76615461E+04	.36822178E+04	.33386282	.69466431	.61804230
2800.	.77490501E+04	.37308572E+04	.33426331	.69427023	.61802499
2850.	.78363475E+04	.37785403E+04	.33464136	.69401559	.61800760
2900.	.79234518E+04	.38262615E+04	.33501871	.69375932	.61799002
2950.	.80103785E+04	.38737947E+04	.33537431	.69349960	.61797249
3000.	.80971411E+04	.39213739E+04	.33572921	.69323833	.61795479
3050.	.81837519E+04	.39687677E+04	.33606235	.69297348	.61793700
3100.	.82702248E+04	.40155899E+04	.33639480	.69281492	.61791916
3150.	.83565718E+04	.40597005E+04	.33670692	.69308450	.61790123
3200.	.84427898E+04	.41037687E+04	.33701693	.69335364	.61788211
3250.	.85288253E+04	.41475851E+04	.33730660	.69361542	.61785714
3300.	.86147669E+04	.41913806E+04	.33759558	.69387809	.61783204
3350.	.87006251E+04	.42351607E+04	.33788384	.69414145	.61780678
3400.	.87864115E+04	.42785794E+04	.33817068	.69446104	.61778145
3450.	.88721361E+04	.43202949E+04	.33843720	.69501292	.61775609
3500.	.89578074E+04	.43619694E+04	.33870373	.69556716	.61773049
3550.	.90434354E+04	.44035878E+04	.33896884	.69612391	.61770472
3600.	.91290319E+04	.44451718E+04	.33923395	.69668342	.61767892
3650.	.92146033E+04	.44867082E+04	.33949763	.69724523	.61765298
3700.	.93001598E+04	.45282170E+04	.33976132	.69780986	.61762703
3750.	.93857088E+04	.45694046E+04	.34000469	.69838092	.61760071
3800.	.94712594E+04	.46105320E+04	.34024734	.69895855	.61757440
3850.	.95568207E+04	.46516281E+04	.34048929	.69953894	.61754798
3900.	.96423997E+04	.46927054E+04	.34073125	.70012212	.61752141
3950.	.97267255E+04	.47337579E+04	.34097249	.70061584	.61781504
4000.	.98106672E+04	.47747983E+04	.34121373	.70108391	.61820200
4050.	.98945578E+04	.48155453E+04	.34143394	.70154833	.61858735
4100.	.99784599E+04	.48562815E+04	.34165415	.70201494	.61897449
4150.	.10062378E+05	.48970102E+04	.34187437	.70248354	.61936343
4200.	.10146323E+05	.49377240E+04	.34209386	.70295437	.61975440
4250.	.10230302E+05	.49784260E+04	.34231266	.70342750	.62014729
4300.	.10306698E+05	.50191281E+04	.34253145	.70338276	.62008368
4350.	.10381069E+05	.50595460E+04	.34272993	.70320597	.61990514
4400.	.10455306E+05	.50999662E+04	.34292840	.70302844	.61972609
4450.	.10529415E+05	.51406709E+04	.34314649	.70285217	.61954653
4500.	.10603402E+05	.51813866E+04	.34336457	.70267532	.61936655
4550.	.10677271E+05	.52218194E+04	.34356234	.70249618	.61918601
4600.	.10751027E+05	.52622645E+04	.34376010	.70231629	.61900497
4650.	.10824676E+05	.53030119E+04	.34397748	.70213772	.61882353
4700.	.10898220E+05	.53437325E+04	.34419486	.70196464	.61864137
4750.	.10971666E+05	.53841700E+04	.34439191	.70178931	.61845887
4800.	.11045006E+05	.54246275E+04	.34458897	.70161263	.61827512
4850.	.11118215E+05	.54651073E+04	.34478602	.70143270	.61808862
4900.	.11191340E+05	.55055993E+04	.34498237	.70125243	.61790168
4950.	.11264382E+05	.55458154E+04	.34515911	.70106985	.61771433
5000.	.11337346E+05	.55860445E+04	.34533513	.70088661	.61752633

TABLE 3t

MIXTURE PROPERTIES CARBON DIOXIDE-NITROGEN

X 1.00	W 1.00			
TEMP	VISCOSITY	CONDUCTIVITY	SPECIFIC HEAT	PRANDTL
100.	.50158157E+03	.10852613E+03	.15861380	.73307467
150.	.75071502E+03	.16248998E+03	.16423085	.75875792
200.	.10060356E+04	.23010619E+03	.17571780	.76824686
250.	.12561102E+04	.30911820E+03	.18915536	.76863791
300.	.14964642E+04	.39559807E+03	.20211882	.76457291
350.	.17230701E+04	.48622572E+03	.21389475	.75799289
400.	.19397056E+04	.57918197E+03	.22442896	.75162234
450.	.21439942E+04	.67268209E+03	.23385693	.74535639
500.	.23386818E+04	.76611684E+03	.24234120	.73978134
550.	.25247219E+04	.85945980E+03	.25001723	.73444269
600.	.27039672E+04	.95110640E+03	.25698886	.73061167
650.	.28741233E+04	.10415876E+04	.26335094	.72668210
700.	.30392186E+04	.11307255E+04	.26916214	.72346699
750.	.31982062E+04	.12186026E+04	.27446763	.72033661
800.	.33527242E+04	.13043563E+04	.27931707	.71795804
850.	.35028677E+04	.13890672E+04	.28375562	.71555817
900.	.36484347E+04	.14716807E+04	.28781489	.71352012
950.	.37906833E+04	.15521762E+04	.29153099	.71196916
1000.	.39293989E+04	.16310391E+04	.29493101	.71052956
1050.	.40653008E+04	.17082404E+04	.29805561	.70931802
1100.	.41951062E+04	.17842702E+04	.30090025	.70746487
1150.	.43230749E+04	.18587503E+04	.30356429	.70602872
1200.	.44510087E+04	.19312200E+04	.30595740	.70515995
1250.	.45790359E+04	.20028394E+04	.30821506	.70466348
1300.	.47034675E+04	.20728301E+04	.31029210	.70408510
1350.	.48229568E+04	.21411642E+04	.31214338	.70310067
1400.	.49422805E+04	.22084878E+04	.31390435	.70247311
1450.	.50615251E+04	.22746095E+04	.31552986	.70212592
1500.	.51795904E+04	.23395489E+04	.31701991	.70185889
1550.	.52921379E+04	.24031225E+04	.31839708	.70117157
1600.	.54044585E+04	.24648445E+04	.31977425	.70114224
1650.	.55166132E+04	.25254183E+04	.32094823	.70109066
1700.	.56286595E+04	.25863363E+04	.32212221	.70103652
1750.	.57362782E+04	.26465624E+04	.32316073	.70043305
1800.	.58432952E+04	.27071407E+04	.32419925	.69977592
1850.	.59501274E+04	.27673591E+04	.32514747	.69910291
1900.	.60568181E+04	.28246471E+04	.32609568	.69923857
1950.	.61608952E+04	.28807190E+04	.32690844	.69914788
2000.	.62634820E+04	.29369757E+04	.32772119	.69890796
2050.	.63658819E+04	.29928433E+04	.32846622	.69865906
2100.	.64681284E+04	.30489093E+04	.32921125	.69840732
2150.	.65660579E+04	.31043759E+04	.32986597	.69769869
2200.	.66573411E+04	.31580020E+04	.33052069	.69676615
2250.	.67481865E+04	.32106069E+04	.33113025	.69598324
2300.	.68386186E+04	.32633122E+04	.33173982	.69519615
2350.	.69286623E+04	.33154832E+04	.33228166	.69439875
2400.	.70183406E+04	.33677600E+04	.33282350	.69359710
2450.	.71076755E+04	.34197097E+04	.33332018	.69278734
2500.	.71966876E+04	.34706677E+04	.33381686	.69219406
2550.	.72853980E+04	.35205983E+04	.33429097	.69176954
2600.	.73738239E+04	.35705866E+04	.33476508	.69134262
2650.	.74619846E+04	.36201743E+04	.33519403	.69090944
2700.	.75498971E+04	.36698261E+04	.33562299	.69047386

2750.	.76375783E+04	.37193106E+04	.33602937	.69003395
2800.	.77250442E+04	.37682607E+04	.33643574	.68970305
2850.	.78123109E+04	.38160189E+04	.33681954	.68955080
2900.	.78993920E+04	.38638105E+04	.33720335	.68939752
2950.	.79863019E+04	.39113910E+04	.33756457	.68924137
3000.	.80730545E+04	.39590132E+04	.33792580	.68908418
3050.	.81596632E+04	.40064267E+04	.33826444	.68892409
3100.	.82461413E+04	.40529966E+04	.33860309	.68891469
3150.	.83325000E+04	.40957224E+04	.33891916	.68951057
3200.	.84187511E+04	.41383837E+04	.33923524	.69010928
3250.	.85049069E+04	.41807198E+04	.33952873	.69070885
3300.	.85909787E+04	.42229972E+04	.33982223	.69131125
3350.	.86769769E+04	.42652207E+04	.34011572	.69191641
3400.	.87629130E+04	.43073942E+04	.34040922	.69252456
3450.	.88487955E+04	.43492460E+04	.34068013	.69313366
3500.	.89346348E+04	.43910531E+04	.34095105	.69374544
3550.	.90204411E+04	.44328178E+04	.34122197	.69436027
3600.	.91062241E+04	.44745450E+04	.34149289	.69497808
3650.	.91919927E+04	.45162384E+04	.34176381	.69559888
3700.	.92777556E+04	.45579024E+04	.34203473	.69622258
3750.	.93635214E+04	.45992492E+04	.34228307	.69684738
3800.	.94492976E+04	.46405680E+04	.34253141	.69747522
3850.	.95350944E+04	.46818631E+04	.34277975	.69810610
3900.	.96209193E+04	.47231373E+04	.34302810	.69874013
3950.	.97067817E+04	.47643946E+04	.34327644	.69937729
4000.	.97926856E+04	.48056379E+04	.34352478	.70001738
4050.	.98786413E+04	.48465646E+04	.34375055	.70065883
4100.	.99646564E+04	.48874781E+04	.34397631	.70130354
4150.	.10050736E+05	.49283828E+04	.34420208	.70195119
4200.	.10136890E+05	.49692802E+04	.34442784	.70260217
4250.	.10223127E+05	.50101731E+04	.34465361	.70325665
4300.	.10299461E+05	.50510649E+04	.34487937	.70323222
4350.	.10373174E+05	.50916386E+04	.34508256	.70303524
4400.	.10446743E+05	.51322122E+04	.34528575	.70283754
4450.	.10520174E+05	.51731113E+04	.34551152	.70264123
4500.	.10593472E+05	.52140193E+04	.34573728	.70244429
4550.	.10666642E+05	.52546099E+04	.34594047	.70224491
4600.	.10739688E+05	.52952111E+04	.34614366	.70204470
4650.	.10812617E+05	.53361569E+04	.34636943	.70184591
4700.	.10885430E+05	.53771211E+04	.34659519	.70164638
4750.	.10958135E+05	.54177673E+04	.34679838	.70144456
4800.	.11030736E+05	.54584333E+04	.34700157	.70124200
4850.	.11103234E+05	.54991199E+04	.34720476	.70103865
4900.	.11175637E+05	.55398288E+04	.34740795	.70083485
4950.	.11247947E+05	.55802149E+04	.34758856	.70062851
5000.	.11320169E+05	.56206228E+04	.34776917	.70042161