KERNFORSCHUNGSANLAGE JÜLICH
GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG
Institut für Reaktorbauelemente

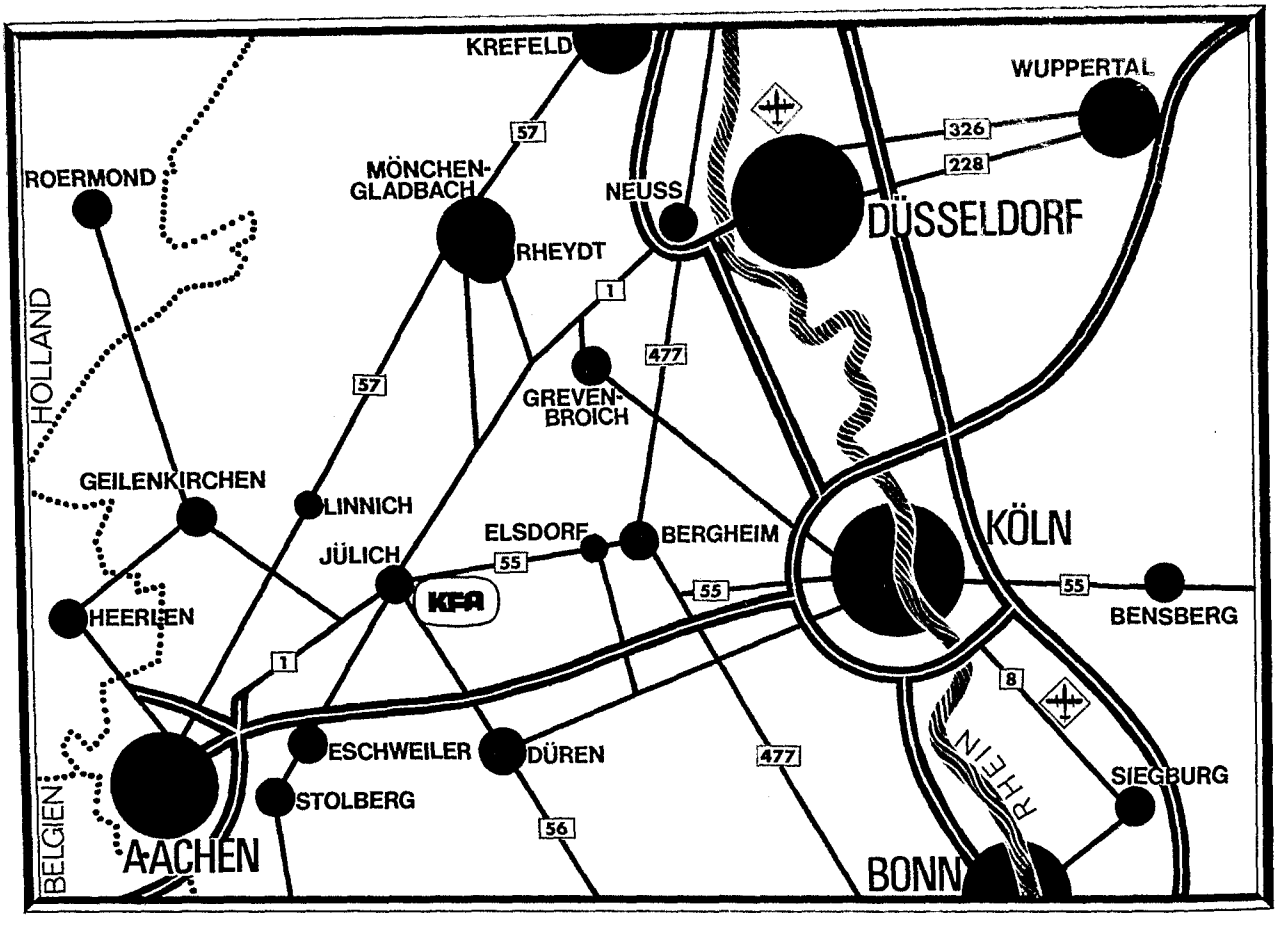
Thermische Stoffwerte der Gase H_2, CH_4, H_2O, N_2, CO und CO_2 im Bereich von $0^\circ C \leq \vartheta \leq 1000^\circ C$ $1\ bar \leq p \leq 50\ bar$

von

R. Harth
unter Mitarbeit von A. Bauer

Jül - 1085 - RB
Juli 1974

Als Manuskript gedruckt



Berichte der Kernforschungsanlage Jülich - Nr. 1085

Institut für Reaktorbauelemente - Jül - 1085 - RB

Dok.: Hydrogen – Thermodynamic Properties

Methane – Thermodynamic Properties

Water Vapor – Thermodynamic Properties

Nitrogen – Thermodynamic Properties

Carbon Monoxide – Thermodynamic Properties

Carbon Dioxide – Thermodynamic Properties

Im Tausch zu beziehen durch: ZENTRALBIBLIOTHEK der Kernforschungsanlage Jülich GmbH, Jülich, Bundesrepublik Deutschland

Thermische Stoffwerte der Gase H_2, CH_4, H_2O, N_2, CO und CO_2 im Bereich von

$0^{\circ}C \leq \vartheta \leq 1000^{\circ}C$

$1\ bar \leq p \leq 50\ bar$

von

R. Harth
unter Mitarbeit von A. Bauer

A b s t r a c t

The energy from HTR will be used for process heat in the chemical and metallurgical industry. For technical calculations and for evaluation of thermo- and fluid-dynamic investigations the thermal properties of the components being involved in these processes are needed.

This report presents the thermal properties of H_2, CH_4, H_2O, N_2, CO and CO_2 in the range

$$0\ ^{o}C \leq \vartheta \leq 1000\ ^{o}C$$
$$1\ \text{bar} \leq p \leq 50\ \text{bar}.$$

Dependency on pressure and temperature is given in the form of equations. Tables of the properties are annected.

Thermische Stoffwerte der Gase

H_2, CH_4, H_2O, N_2, CO und CO_2

im Bereich von

$0^\circ C \leq \vartheta \leq 1000^\circ C$

$1 \text{ bar} \leq p \leq 50 \text{ bar}$

von
R. Harth

unter Mitarbeit von A. Bauer

I N H A L T S V E R Z E I C H N I S

		Seite
Zusammenfassung		3
1.	Einleitung	4
2.	Benutzte Dimensionen und Symbole	6
3.	Spezifische Daten der Gase	6
4.	Aufstellung der Gleichungen	7
4.1	Dichte	7
4.2	Wärmeleitfähigkeit	7
4.3	Dynamische Zähigkeit	9
4.4	Spezifische Wärmekapazität	11
5.	Genauigkeit der Stoffwerte	13
6.	Literaturverzeichnis	15

Tabellen:

Wasserstoff	35
Methan	47
Wasserdampf	59
Stickstoff	71
Kohlenoxid	83
Kohlendioxid	97

Zusammenfassung

Die Energie aus Hochtemperatur-Kernreaktoren soll als Prozeßwärme in der chemischen Industrie sowie im Hüttenwesen eingesetzt werden. Dies bedingt die Entwicklung neuer Verfahrensabläufe und neuartiger Apparate. Für die technischen Berechnungen und Auslegungen der verschiedenen verfahrenstechnischen Komponenten sowie für die Auswertung der vorhergehenden wärme- und strömungstechnischen Untersuchungen werden die thermischen Stoffwerte der am Reaktionsablauf beteiligten Komponenten benötigt.

Der vorliegende Bericht gibt die thermischen Stoffwerte von H_2, CH_4, H_2O, N_2, CO und CO_2 in den Bereichen

$$0^\circ\,C \leq \vartheta \leq 1000^\circ\,C$$

und

$$1\ bar \leq p \leq 50\ bar.$$

Ihre Abhängigkeiten von Druck und Temperatur werden durch Gleichungen angegeben, mit denen auch die beigefügten Tabellen erstellt wurden.

1. Einleitung

Seitdem die Hochtemperatur-Kernreaktoren (HTR) technisch realisierbar sind und billige Energie bei einem Temperaturniveau von 950 (bis 1200° C) zur Verfügung stellen können, werden an vielen Stellen Möglichkeiten untersucht, den HTR als Energiequelle in der chemischen und Hütten-Industrie einzusetzen. Eine dieser Möglichkeiten ist die Vergasung von Kohle zu Wasserstoff und Kohlenmonoxid, wobei ein Teilprozeß die Reformierung von Methan mit Wasserdampf ist. Für die technischen Berechnungen und Auslegungen der verfahrenstechnischen Apparate und deren Optimalisierung mit der in der Kerntechnik notwendigen Sicherheit und Zuverlässigkeit sowie für die Auswertung wissenschaftlicher Untersuchungen zur chemischen Kinetik und zum Wärme- und Stofftransport dieser Prozesse werden die thermischen Stoffwerte der beteiligten Komponenten benötigt.

Mit diesem Bericht soll eine erste Grundlage geschaffen werden, um wärme- und strömungstechnische Untersuchungen der Methanreformierung auswerten und interpretieren zu können.

Es werden die thermischen Stoffwerte der Gase

	Wasserstoff	-	H_2
	Methan	-	CH_4
	Wasserdampf	-	H_2O
	Stickstoff	-	N_2
	Kohlenmonoxid	-	CO
und	Kohlendioxid	-	CO_2

in Form einfacher, für elektronische Rechenanlagen geeigneter Gleichungen und Tabellen gegeben. Dabei werden die Stoffwerte

Dichte
Wärmeleitfähigkeit
dynamische Zähigkeit
spezifische Wärmekapazität

und die Prandtl-Zahl

mit ihrer Abhängigkeit von Temperatur und Druck mitgeteilt. Die Gleichungen gelten innerhalb der Bereiche

$$0^\circ\,C \leq \vartheta \leq 1000^\circ\,C$$

$$1\ bar \leq p \leq 50\ bar$$

Ausnahmen bilden Stickstoff und Kohlendioxid. Deren Stoffwerte wurden einem anderen Bericht /7/ entnommen. Für sie gelten die mitgeteilten Gleichungen zwischen den Grenzen

$$80^\circ\,C \leq \vartheta \leq 1030^\circ\,C$$

$$1\ bar \leq p \leq 80\ bar$$

Beim Wasserdampf wurde nur für die spezifische Wärmekapazität eine Gleichung aufgestellt. Für die anderen Stoffwerte liegen bereits international gültige Gleichungen für den Temperaturbereich bis $\vartheta = 700^\circ\,C$ vor. In dieser Arbeit wurden die Gleichungen bis $\vartheta = 1000^\circ\,C$ ausgewertet.

Aus der Literatur sind für die bezeichneten Gase teilweise nur unvollständige Angaben der thermischen Stoffwerte bekannt. Vor allem bei Drücken größer als 1 bar sind kaum experimentelle Daten zu finden, so daß z.T. auf theoretisch hergeleitete Abhängigkeitsfunktionen zurückgegriffen wurde.

2. Benutzte Dimensionen und Symbole

Temperatur	T	K
	ϑ	°C
Druck	P	bar
Molgewicht	M	kg/kmol
Dichte	ϱ	kg/m^3
Wärmeleitfähigkeit	λ	W/(m·K)
dynamische Zähigkeit	η	$N \cdot s/m^2 \triangleq kg/(m \cdot s)$
spezifische Wärmekapazität	c_p	kJ/(kg·K)
Allgemeine Gaskonstante	R	$bar \cdot m^3/(kmol \cdot K)$
Prandtl-Zahl	Pr	-

3. Spezifische Daten der Gase

	M [kg/kmol]	T_{kr} [K]	P_{kr} [bar]	ϱ_{kr} [kg/m^3]	T_s [K]
H_2	2,016	33,3	12,97	31,0	20,38
CH_4	16,043	190,70	46,4	162,0	111,46
CO	28,01	132,9	34,96	301,0	81,66
H_2O	18,016	647,32	221,35	305,0	373,16
N_2	28,016	126,2	33,93	311,0	77,3
CO_2	44,01	304,26	73,9	460,0	194,66

Tab. 1

Die allgemeine Gaskonstante beträgt:

$$R = 0{,}0831466 \left[bar \cdot m^3/(kmol \cdot K)\right]$$

4. Aufstellung der Gleichungen

4.1 Dichte ϱ [kg/m³]

Für die Berechnung der Dichte der Gase Wasserstoff, Methan und Kohlenmonoxid wurde eine von Reid und Sherwood /15/ mitgeteilte Form der Zustandsgleichung von Redlich und Kwong benutzt. Mit ihrer Hilfe kann aus den kritischen Daten eines Gases die Dichte im gesamten hier interessierenden Bereich gut angenähert werden.

$$\varrho = M \cdot P/(T \cdot R \cdot Z) \qquad (1)$$

mit

$$Z^3 - Z^2 - (B^2 + B - A \cdot B) \cdot Z - A \cdot B^2 = 0$$

$$A = 4{,}9363 \cdot (T_{kr}/T)^{1{,}5}$$

$$B = 0{,}0867 \cdot T_{kr} \cdot P/(T \cdot P_{kr})$$

Für Wasserdampf wurde die Dichte nach der in den VDI-Wasserdampftafeln /23/ mitgeteilten Koch'schen Zustandsgleichung gerechnet.

$$\frac{1}{\varrho} = \frac{R \cdot T}{P \cdot M} - \frac{A}{(T/100)^{2{,}82}} - P^2 \cdot \left[\frac{B}{(T/100)^{14}} + \frac{C}{(T/100)^{31{,}6}}\right] \qquad (2)$$

Für Gl. (2) gelten die Konstanten

$$A = 0{,}9172$$

$$B = 1{,}360928 \cdot 10^{4}$$

$$C = 4{,}5534 \cdot 10^{15}$$

4.2 Wärmeleitfähigkeit λ [W/(m·K)]

Für die Wärmeleitfähigkeit der Gase Wasserstoff, Methan und Kohlenmonoxid bei einem Druck von P = 1 bar wurden

Gleichungen angesetzt, die der Sutherland'schen Formel entsprechen.

$$\lambda_1 = A_1 \cdot T^{1,5} \frac{1 + B_1 \cdot T}{C_1 + T} \qquad (3)$$

Die Berechnung der Wärmeleitfähigkeit bei höheren Drücken wurde nach folgender Gleichung durchgeführt:

$$\lambda = \lambda_1 \cdot \left[1 + A \cdot (T/T_o)^r \cdot (P - 1)^s\right] \qquad (4)$$

Die einzusetzenden Konstanten sind in Tab. 2 zusammengestellt.

	H_2	CH_4	CO
A_1	$1{,}5049 \cdot 10^{-2}$	$1{,}2683 \cdot 10^{-2}$	$2{,}3622 \cdot 10^{-3}$
B_1	$7{,}3682 \cdot 10^{-5}$	$1{,}8335 \cdot 10^{-4}$	$6{,}756 \cdot 10^{-5}$
C_1	133,495	1778,67	223,764
A	0	$2{,}65 \cdot 10^{-3}$	$5{,}4 \cdot 10^{-4}$
r	1	- 2,5	- 2,32
s	1	1	1,4

Tab. 2

In Abb. 1, Abb. 2 und Abb. 3 ist jeweils die Wärmeleitfähigkeit bei dem Druck P = 1 bar in Abhängigkeit von der Temperatur dargestellt. Zum Vergleich sind die in der Literatur angegebenen Daten eingetragen. Die für die Formel (3) benötigten Konstanten A_1, B_1 und C_1 wurden so gewählt, daß sich die in den Abb. 1 bis 3 gezeichneten Kurvenverläufe ergeben.

Die Druckabhängigkeit der Wärmeleitfähigkeiten von Methan und Kohlenmonoxid sind in den Abb. 4 bis 7 als Funktionen der relativen Temperatur bzw. des relativen Druckes aufgetragen. Für CH_4 wurden dazu von Vargaftik /21/ angegebene Werte und nach einem von Hecht et al./8/ mitgeteilten Verfahren berechnete Werte verwendet. Für CO konnten nur nach Hecht et al./8/ theoretisch ermittelte Werte benutzt werden. Aus den in diesen Abbildungen dargestellten Geraden wurden jeweils die Exponenten r und s der Formel (4) gemittelt. Mit Hilfe dieser Exponenten ließ sich die Konstante A berechnen.

Für Wasserstoff konnte in dem betrachteten Bereich keine Druckabhängigkeit ermittelt werden.

Die Wärmeleitfähigkeit des Wasserdampfes wurde nach Mayinger et al./13/ berechnet. Nach /13/ gelten diese Gleichungen nur bis zu einer Temperatur $\vartheta = 700^{\circ}$ C. Sie wurden hier jedoch bis $\vartheta = 1000^{\circ}$ C benutzt.

4.3 Dynamische Zähigkeit η [kg/(m·s)]

Analog zur Wärmeleitfähigkeit wurde auch die Berechnung der dynamischen Zähigkeit für Wasserstoff, Methan und Kohlenmonoxid nach einer von Sutherland hergeleiteten Formel durchgeführt.

$$\eta_1 = A_1 \cdot T^{0,5}/(1 + C_1/T) \qquad (5)$$

Die Berücksichtigung des Druckeinflusses erfolgt durch den Ansatz

$$\eta = \eta_1 \cdot \left[1 + A\,(T/T_o)^r \cdot (P - 1)^s\right] \qquad (6)$$

Tab. 3 zeigt die in den Gleichungen (5) und (6) einzusetzenden Konstanten.

	H_2	CH_4	CO
A_1	$6{,}9618 \cdot 10^{-7}$	$1{,}0069 \cdot 10^{-6}$	$1{,}4352 \cdot 10^{-6}$
C_1	104,784	153,701	122,468
A	0	$1{,}2 \cdot 10^{-3}$	$1{,}62 \cdot 10^{-3}$
r	1	- 1,9	- 1,82
s	1	1,12	0,94

Tab. 3

Die Abb. 8, 9 und 10 zeigen den Verlauf der dynamischen Zähigkeit der drei Gase in Abhängigkeit von der Temperatur bei einem Druck von P = 1 bar. Die in der Literatur angegebenen Zähigkeitswerte sind zum Vergleich eingetragen. Die aufgetragenen Kurven sind nach Formel (5) mit den Konstanten A_1 und C_1 berechnet worden.

Die Exponenten r und s sowie die Konstante A für CH_4 und CO wurden auf gleiche Weise wie bei der Wärmeleitfähigkeit aus den Abb. 11 bis 14 ermittelt. Die Abbildungen wurden nach tabellierten Daten von Vargaftik /21/ und nach theoretisch berechneten Werten, basierend auf einem Verfahren von Hecht et al /8/, erstellt.

Die dynamische Zähigkeit von Wasserdampf wurde nach /13/ berechnet, wobei die Gleichung bis zu $\vartheta = 1000^{\circ}$ C benutzt wurde.

4.4 Spezifische Wärmekapazität c_p [kJ/(kg · K)]

Die Formeln zur Berechnung der spezifischen Wärmekapazitäten für Wasserstoff, Methan und Kohlenmonoxid und Wasserdampf bei einem Druck von P = 1 bar wurden einer zusammenfassenden Arbeit von Faltin /4/ entnommen. Sie haben die Form einfacher Polynome.

$$c_{p1} = A_1 + B_1 \cdot \vartheta + C_1 \cdot \vartheta^2 + D_1 \cdot \vartheta^3 \qquad (7)$$

Die Abb. 15, 16 und 17 geben die spezifischen Wärmekapazitäten im Temperaturbereich von 0 bis 1000° C von H_2, CH_4 und CO bei einem Druck von P = 1 bar wieder.

Der Einfluß des Druckes wird nach gleicher Formel wie bei der Wärmeleitfähigkeit und bei der dynamischen Zähigkeit berücksichtigt.

$$c_p = c_{p1} \cdot \left[1 + A \cdot (T/T_o)^r \cdot (P - 1)^s\right] \qquad (8)$$

Die Abb. 18 bis 23 zeigen die Diagramme, mit deren Hilfe die Exponenten r und s sowie die Konstante A für Gl. (8) ermittelt wurden. Dazu wurden für CH_4 Daten von Din /2/ und Vargaftik /21/, für CO Daten von Vargaftik /21/ und für Wasserdampf Werte von Schmidt /18/ benutzt.

In Tab. 4 sind die Konstanten für die Gleichungen (7) und (8) zusammengestellt.

	H_2		CH_4	CO	H_2O	
	$\vartheta \leq 500^\circ$ C	$\vartheta \geq 500^\circ$ C			$\vartheta < 460^\circ$ C	$\vartheta \geq 460^\circ$ C
A_1	14,205	14,205	2,163	1,0403	1,817	1,817
B_1	$3,70 \cdot 10^{-3}$	$3,094 \cdot 10^{-4}$	$3,262 \cdot 10^{-3}$	$1,629 \cdot 10^{-5}$	$6,507 \cdot 10^{-4}$	$6,507 \cdot 10^{-4}$
C_1	$-1,381 \cdot 10^{-5}$	$1,375 \cdot 10^{-6}$	$8,012 \cdot 10^{-7}$	$4,873 \cdot 10^{-7}$	0	0
D_1	$1,73 \cdot 10^{-8}$	$-3,614 \cdot 10^{-10}$	$-1,193 \cdot 10^{-9}$	$-3,108 \cdot 10^{-10}$	0	0
A	0	0	$4,35 \cdot 10^{-3}$	$2,45 \cdot 10^{-3}$	0,359	$3,28 \cdot 10^{-2}$
r	1	1	-2,95	-2,23	-6,35	-3
s	1	1	0,92	0,94	1,29	1

Tab. 4

5. Genauigkeit der Stoffwerte

Anhand der bearbeiteten Literatur ist es nicht möglich exakte Angaben über die Genauigkeit der in dieser Arbeit gegebenen Stoffwerte zu machen. Wie aus den Abbildungen zu ersehen war, streuen die herangezogenen Daten, die z.T. auf Messungen beruhen, erheblich. In der folgenden Tab. 5 sind die größten Abweichungen der aus der Literatur entnommenen Werte von den nach den mitgeteilten Gleichungen berechneten Werten angegeben. Diese Abweichungen beziehen sich alle auf die Stoffwerte bei einem Druck von P = 1 bar.

	H_2	CH_4	CO
λ	+ 12 % - 5 %	+ 16 % - 11 %	+ 4 % -14 %
η	+ 4 % - 4 %	+ 4 % - 11 %	+ 5 % - 3 %
c_p	+ 12 % - 12 %	+ 4 % - 12 %	+ 6 % - 6 %

Tab. 5

Über die Genauigkeit der Druckkorrekturen kann noch keine Aussage gemacht werden. Die Berücksichtigung des Druckeinflusses beruht weitgehend auf theoretisch hergeleiteten Beziehungen, die noch ungenügend, ja z.T. noch gar nicht durch experimentelle Daten in den hier betrachteten Temperatur- und Druckbereichen gestützt werden können.

Sobald weitere experimentelle Daten zu diesen Stoffwerten bekannt geworden sind, müssen die hier mitgeteilten Gleichungen kritisch überprüft und gegebenenfalls korrigiert werden.

Die Anfertigung aller notwendigen Rechner-Programme sowie die Erstellung der in dieser Arbeit zusammengestellten Tabellen der Stoffwerte lag in den Händen von Herrn A. Bauer. Diese Arbeiten möchte ich an dieser Stelle anerkennen und Herrn Bauer meinen Dank für seine hilfreiche Mitarbeit aussprechen.

6. Literaturverzeichnis

/1/ Andrussow, L.
Progr. in Intern. Res. on Thermodynamic and Transport Properties
24. - 26. Jan. 1962, New Jersey

/2/ Din, F.
Theromodynamic functions of Gases
Vol. 3 (1961) Butterworths, London

/3/ Douslin, D. R.
Progr. in Intern. Res. on Thermodynamic and Transport Porperties
24. - 26. Jan. 1962, New Jersey

/4/ Faltin, H.
Die Technik 15 (1960) 9, 592/596

/5/ Frank, E. U.
Chem. Ing. Techn. 25 (1953) 5

/6/ Geier, H.; Schäfer, K.
Allgem. Wärmetechnik 10 (1961) 4

/7/ Hammeke, K.; Pietralla, G.; Presser, K.H.
Jül-383-RB

/8/ Hecht, G. u.a.
Berechnung thermodynamischer Stoffwerte von Gasen und Flüssigkeiten
(1966) VEB Deutscher Verlag für Grundstoffindustrie Leipzig

/9/ ICT, National Research Councie
(1926 - 1933)

/10/ Justi, E.
Spezifische Wärme, Enthalpie,.....
(1938) Springer

/11/ Lenoir, J. M.; Junk, W. A.; Comings, E. W.
Chem. Engng. Prog. 49 (1953) 10

/12/ Lohrisch, F. W.
J. Appl. Chem. 2. Aug. (1952) 468/469

/13/ Mayinger, F.; Grigull, U.
BWK 17 (1965) 2, 53/60

/14/ Michejew, M. A.
Grudnlagen der Wärmeübertragung
(1964) VEB Verlag Technik, Berlin

/15/ Reid, B. C.; Sherwood, T. K.
The Properties of Gases and Liquids
Chemical Engineering Series, 2. Edition (1966)

/16/ Rossini, F. D.
Selected Values of Properties of Hydrocarbons
NBS (1947)

/17/ Schack, A.
Der Industrielle Wärmeübergang
7. Auflage (1969) Stahleisen

/18/ Schmidt, E.
Zustandsgrößen von Wasser und Wasserdampf
(1969) Springer

/19/ Senftleben, H.
Arch. Eisenhüttenwesen 31 (1960), 709/710

/20/ Tables of Thermodynamic and Transport Properties
(1960) Pergamon Press

/21/ Vargaftik, N. B.
Handbuch der Wärmephysikalischen Eigenschaften von Gasen und Flüssigkeiten (Russisch)
(1963) Moskau

/22/ VDI - Wärmeatlas
4. Auflage (1956)

/23/ VDI - Wasserdampftafeln
4. Auflage (1956)

/24/ Weast, R. C.
Handbook of Chemistry and Physics
51. Edition

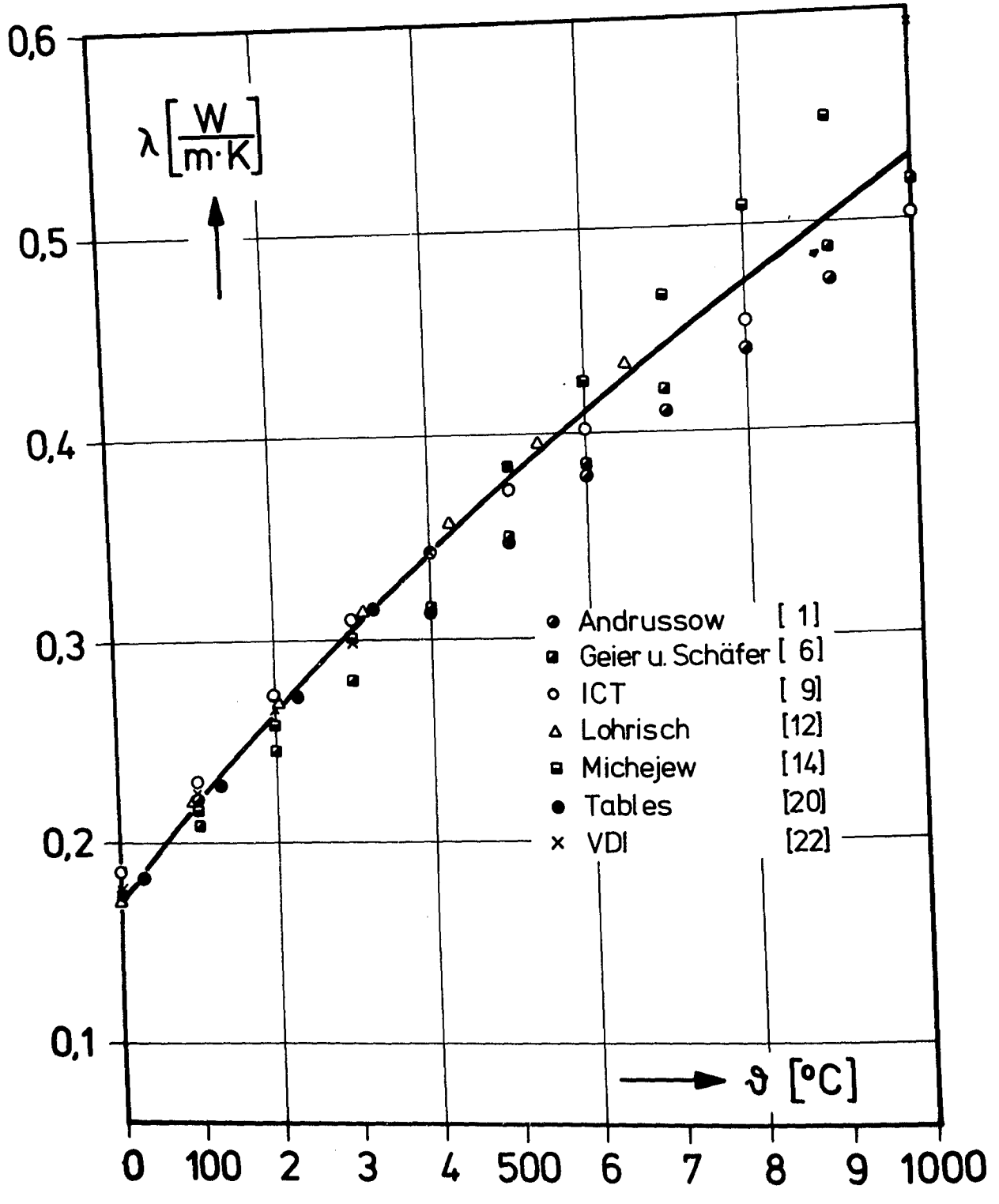


Abb. 1 Wärmeleitfähigkeit von Wasserstoff in Abhängigkeit von der Temperatur bei P = 1 bar.

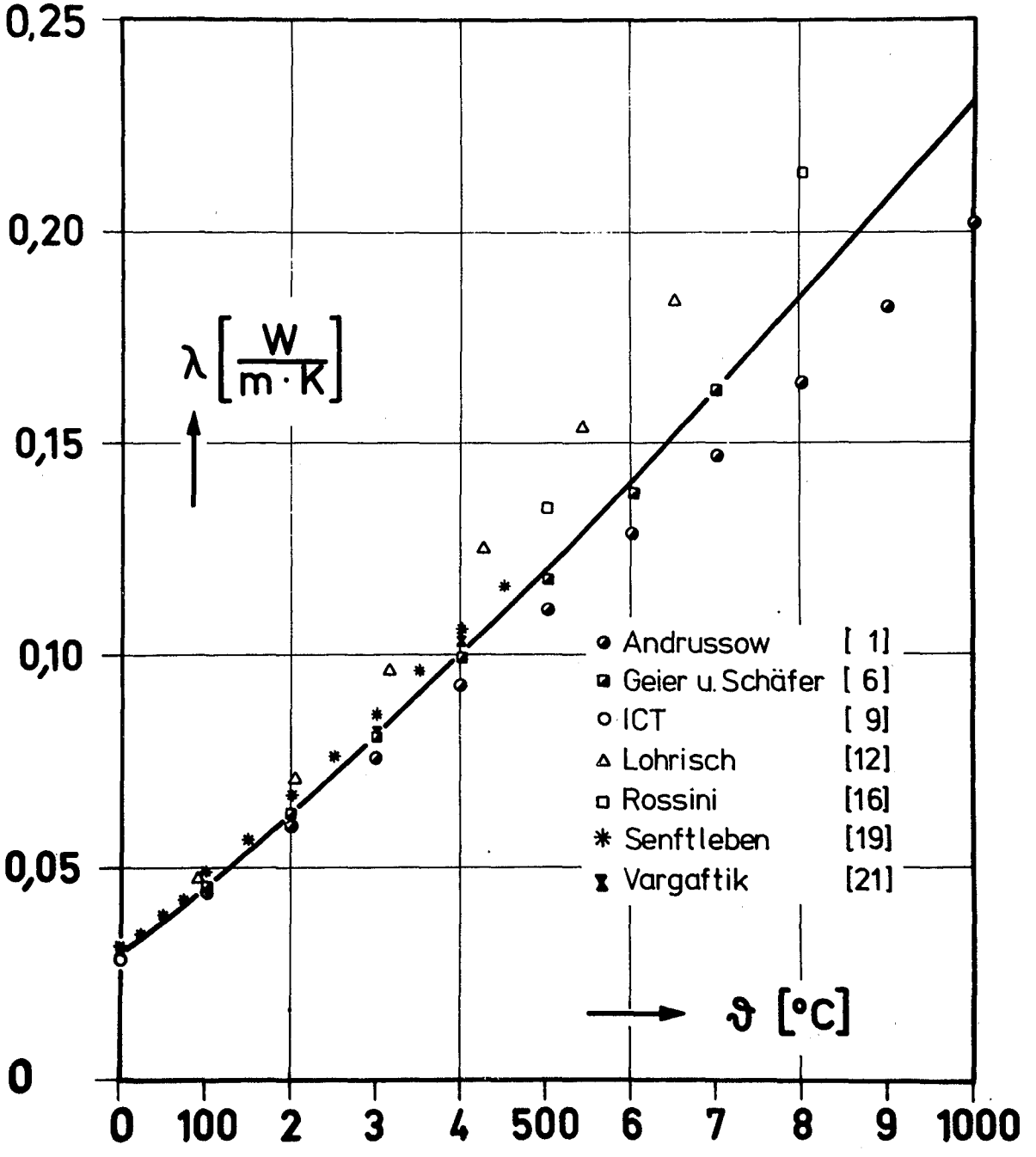


Abb. 2 Wärmeleitfähigkeit von Methan in Abhängigkeit von der Temperatur bei P = 1 bar.

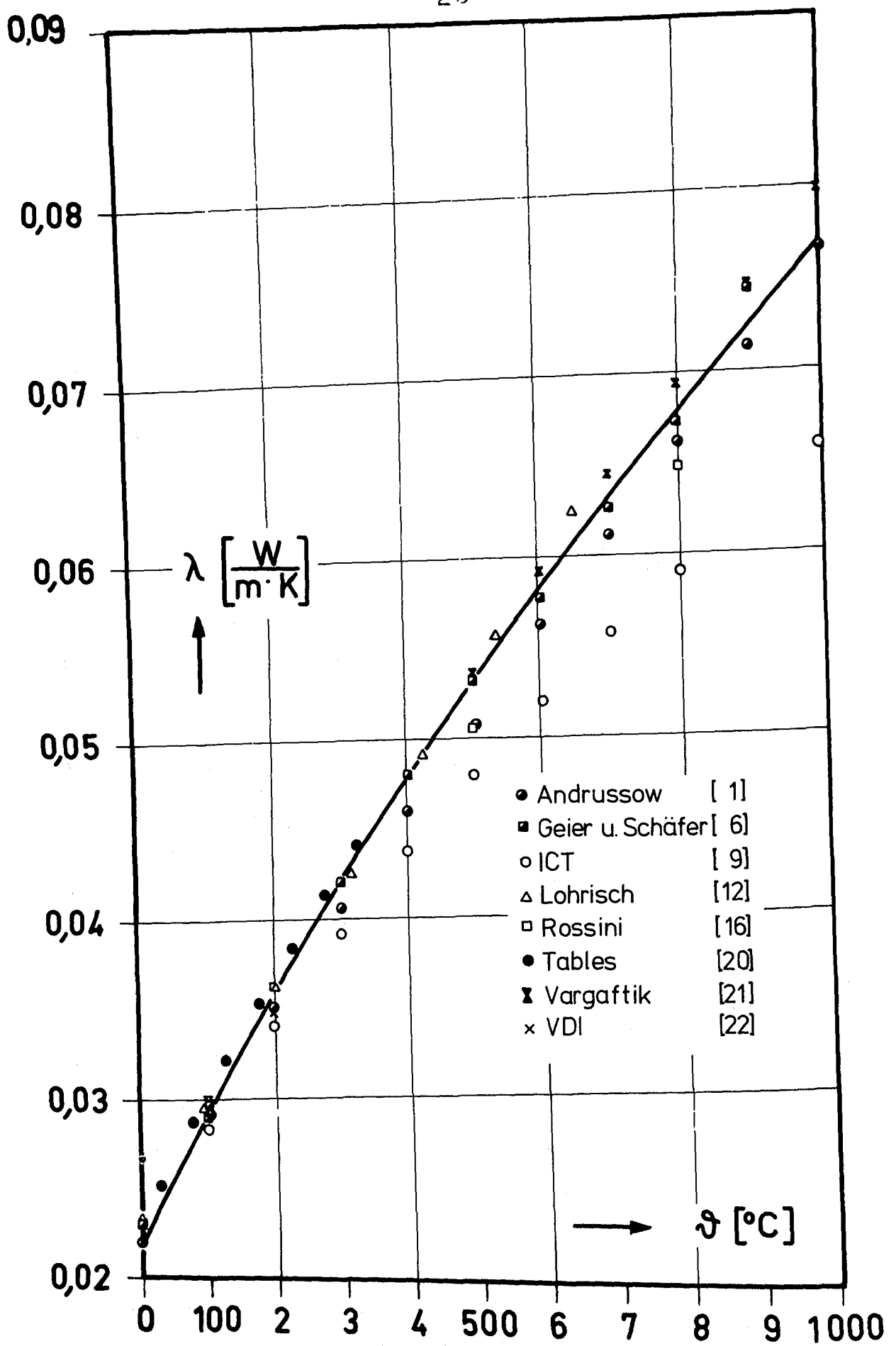


Abb. 3 Wärmeleitfähigkeit von Kohlenmonoxid in Abhängigkeit von der Temperatur bei P = 1 bar.

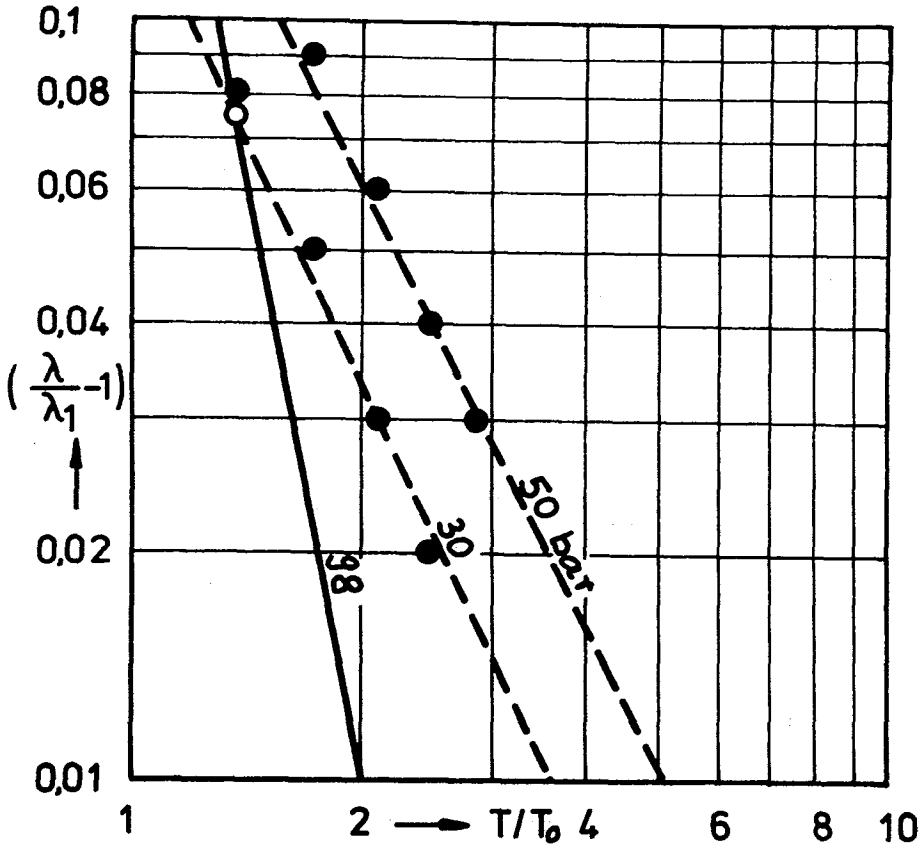


Abb. 4 Abhängigkeit des Druckeinflusses auf die Wärmeleitfähigkeit von der Temperatur für Methan
nach /8/ — — ● — — —
nach /21/ ——— O ———

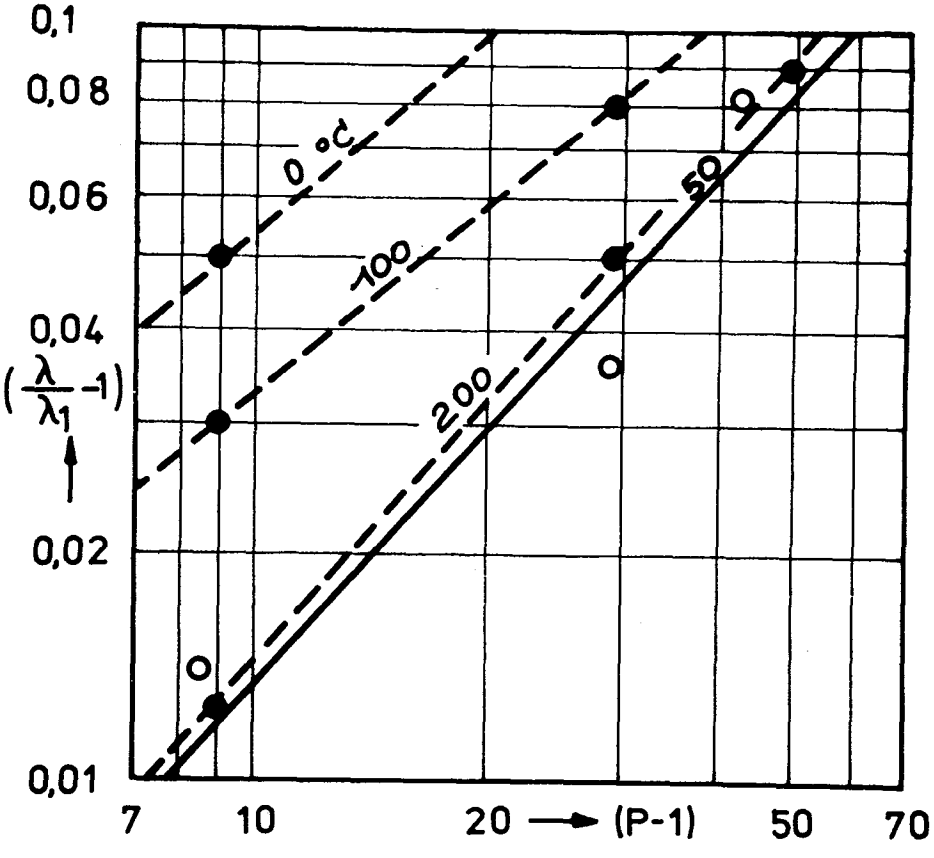


Abb. 5 Abhängigkeit des Druckeinflusses auf die Wärmeleitfähigkeit von Druck für Methan
nach /8/ — — ● — — —
nach /21/ ——— O ———

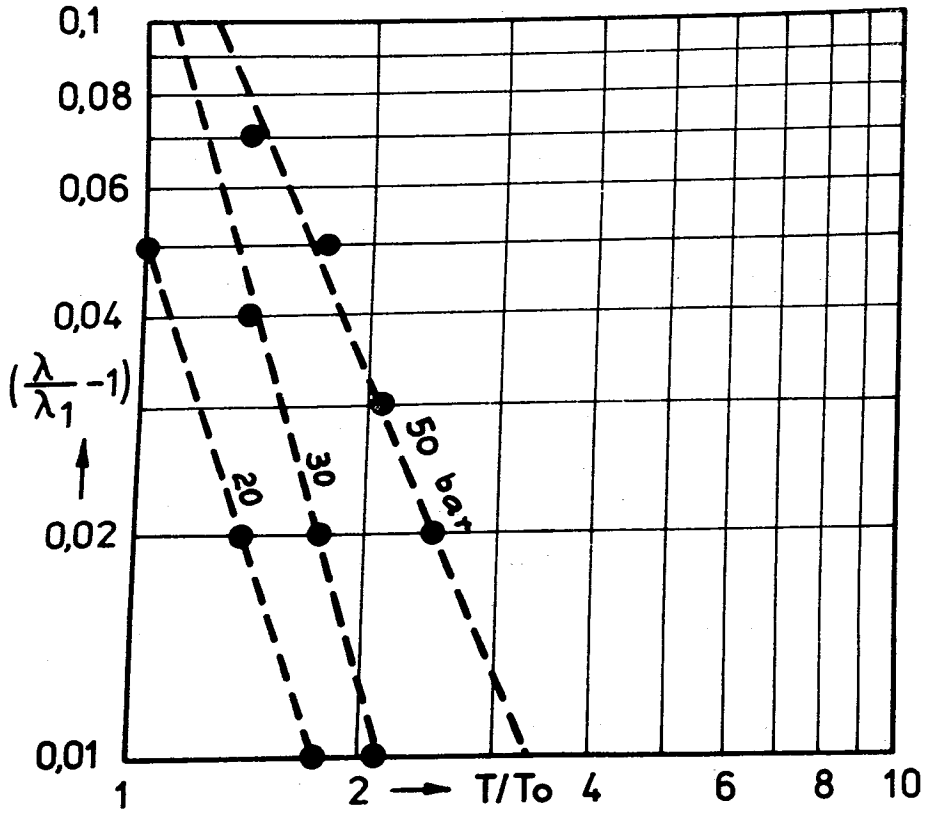


Abb. 6 CO
Abhängigkeit des Druckeinflusses von der Temperatur
nach /8/ — — ● — — —

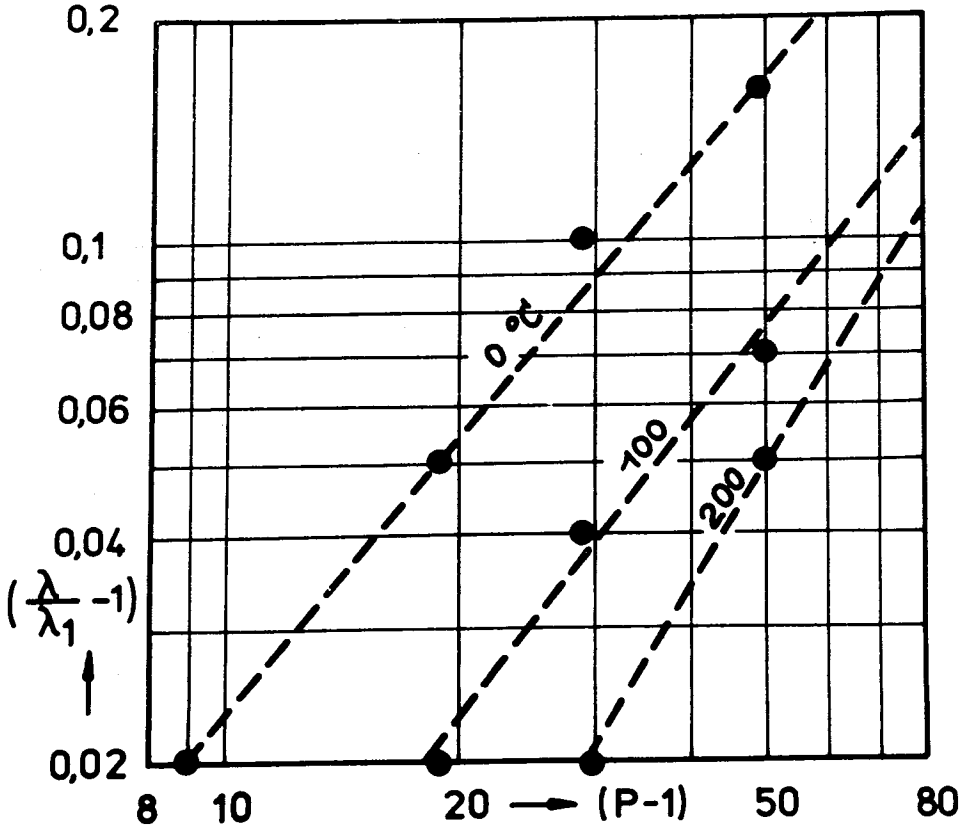


Abb. 7 CO
Abhängigkeit des Druckeinflusses vom Druck
nach /8/ — — ● — — —

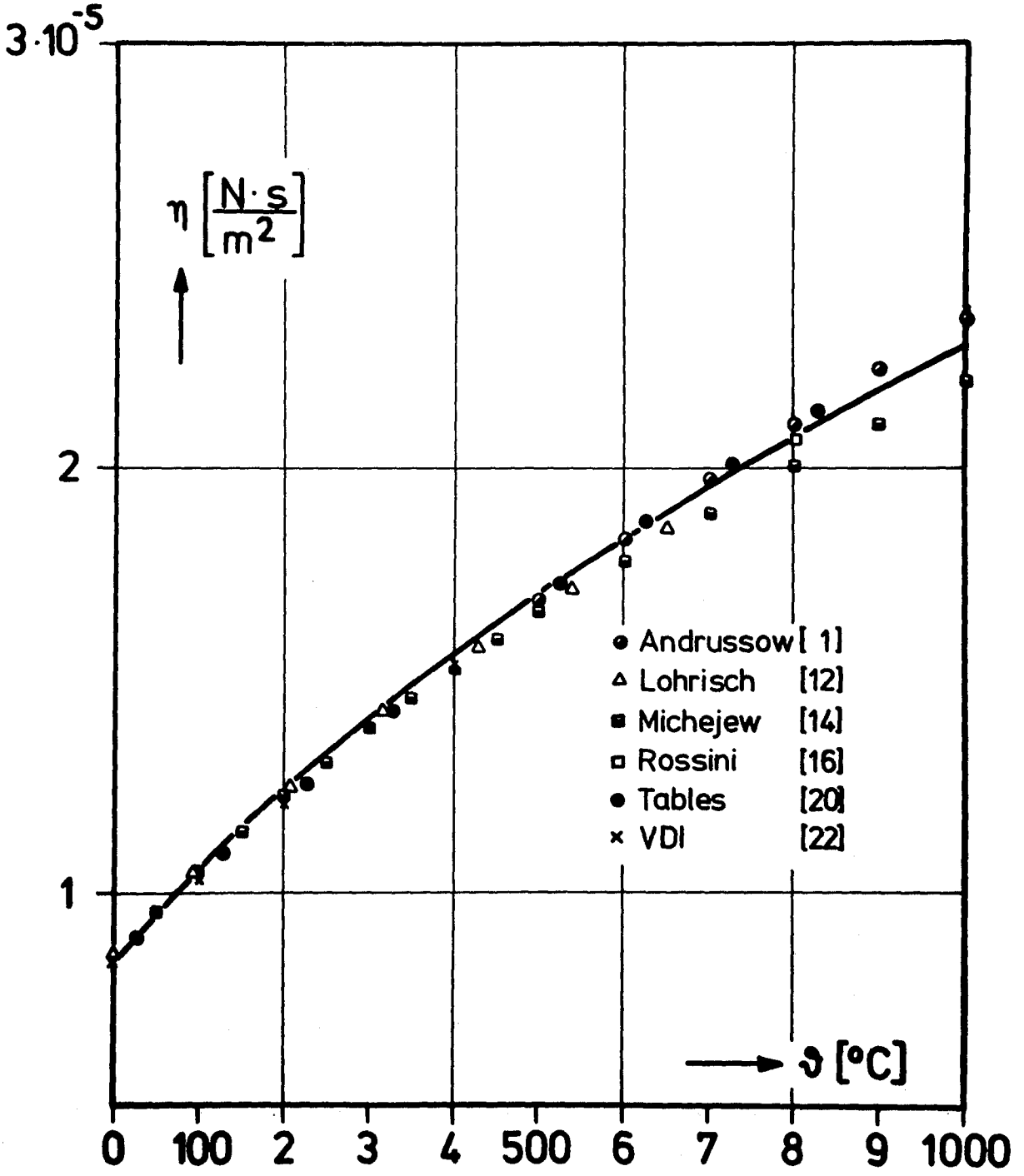
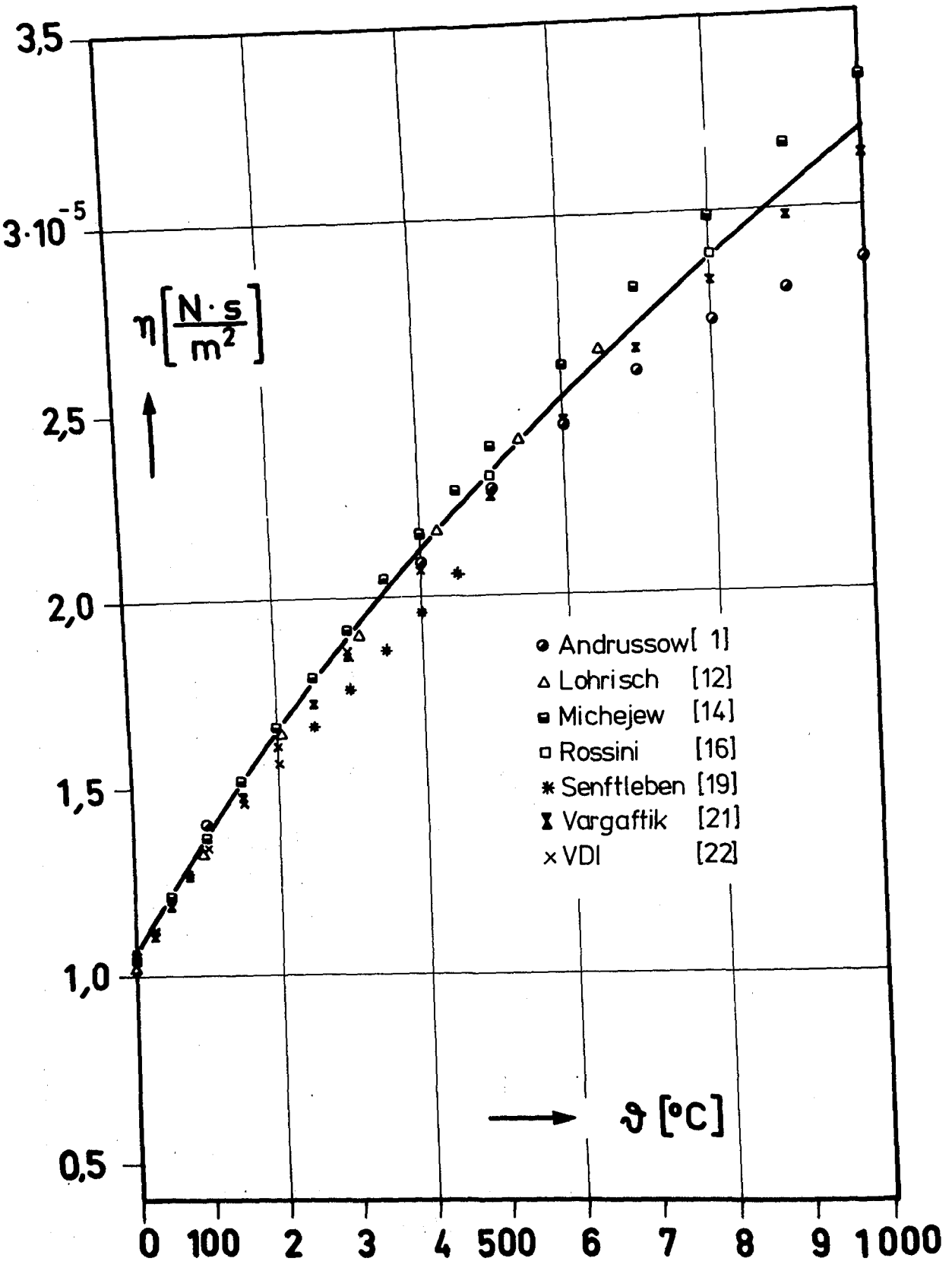


Abb. 8 Dynamische Zähigkeit von Wasserstoff in Abhängigkeit von der Temperatur bei P = 1 bar



b. 9 Dynamische Zähigkeit von Methan in Abhängigkeit von der Temperatur bei P = 1 bar.

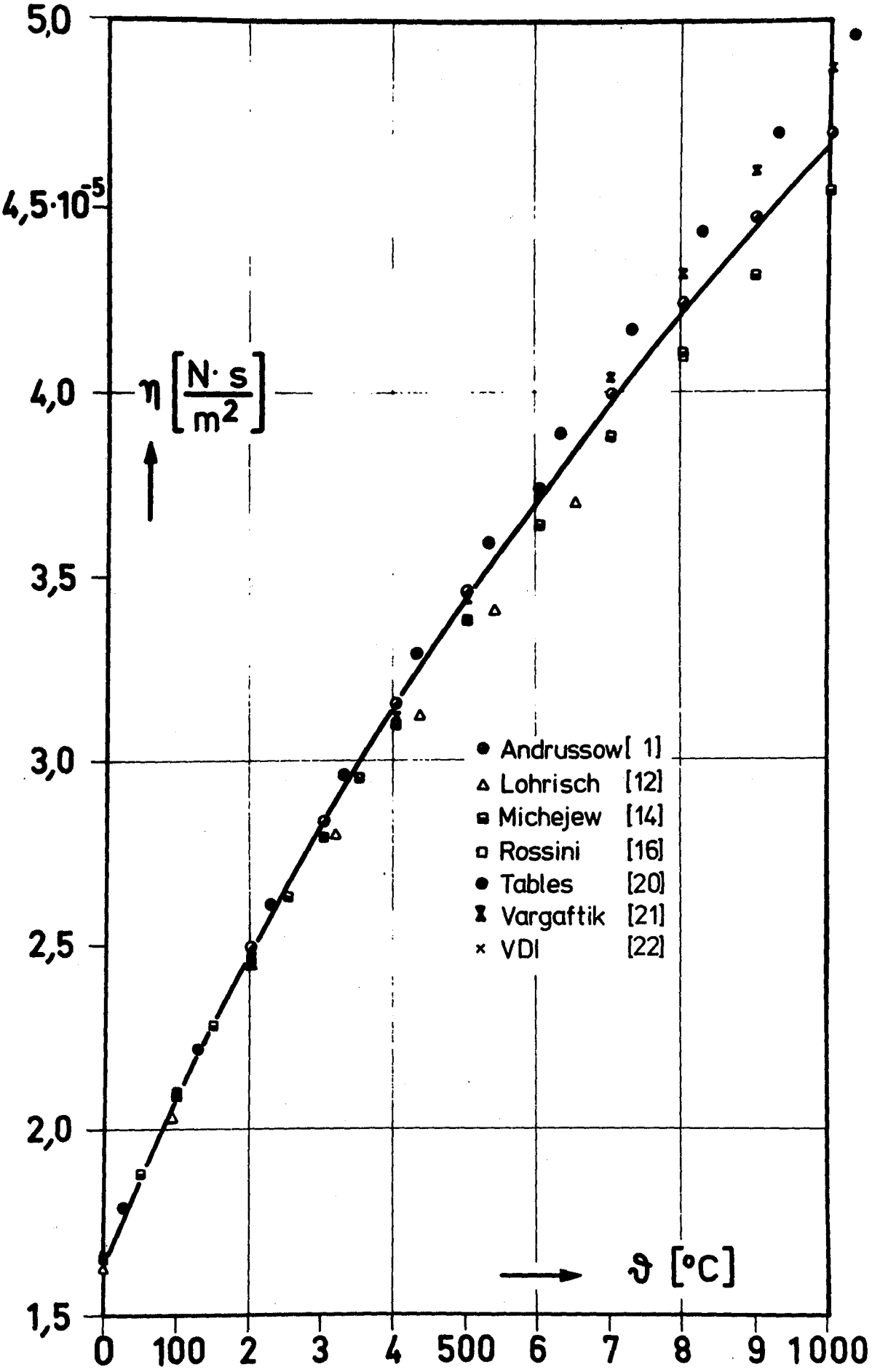


Abb. 10 Dynamische Zähigkeit von Kohlenmonoxid in Abhängigkeit von der Temperatur bei P = 1 bar.

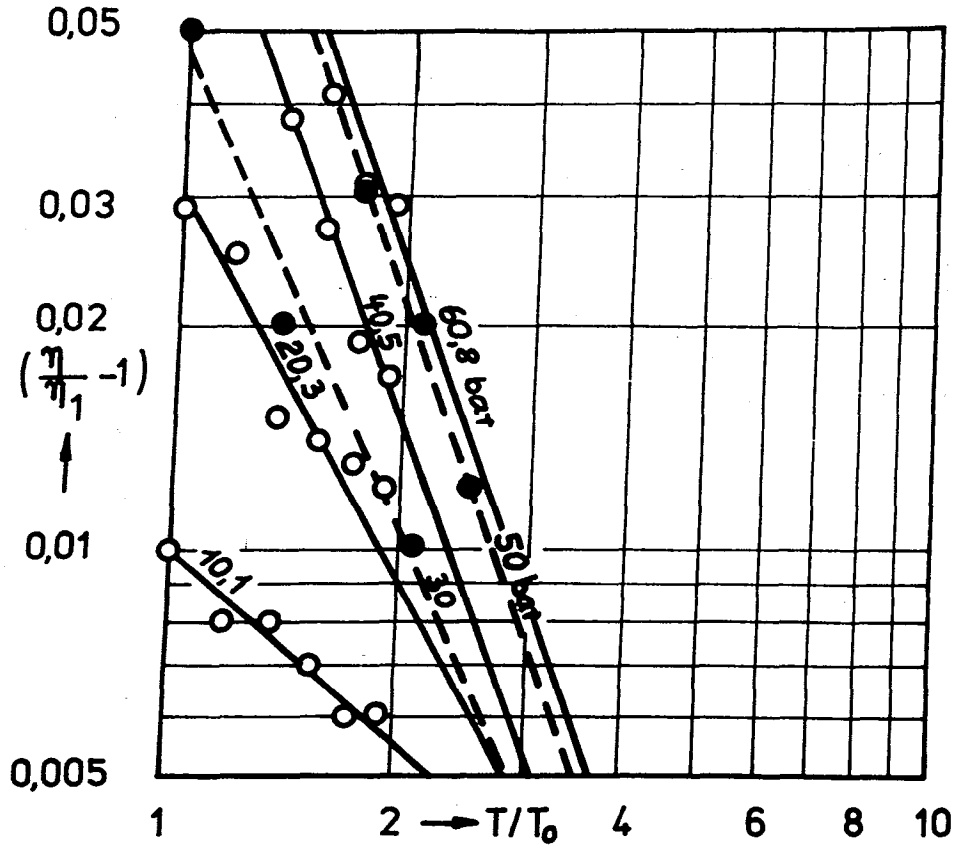


Abb. 11 CH_4
Abhängigkeit des Druckeinflusses von der Temperatur

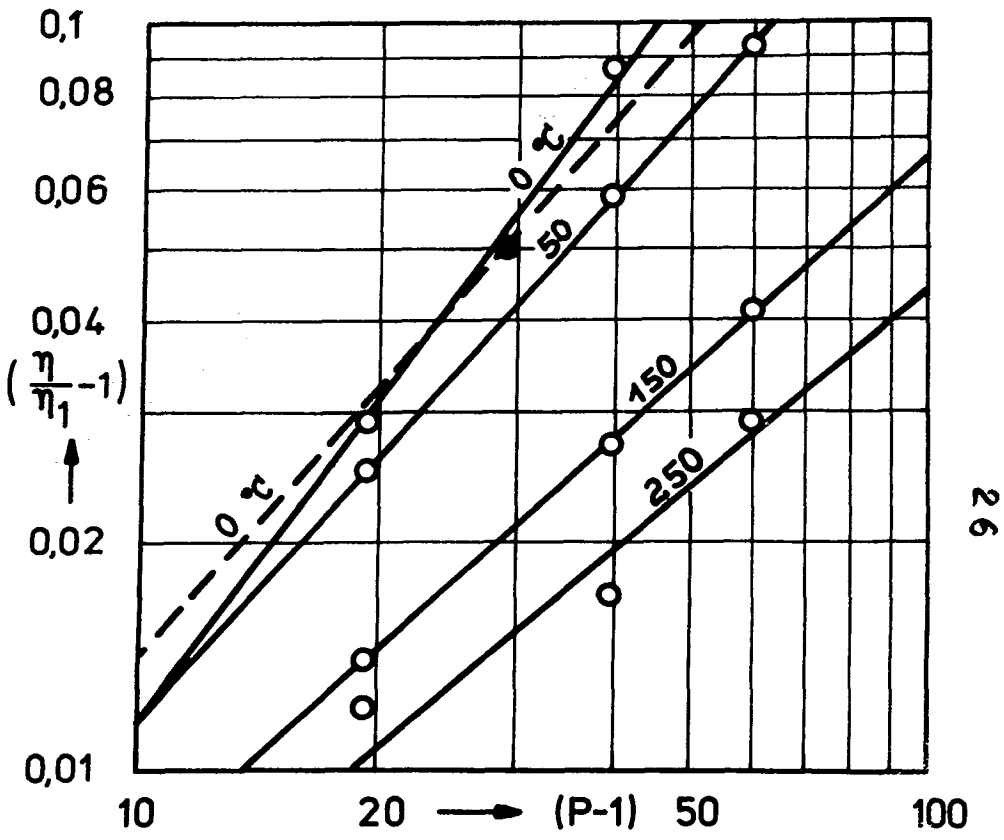


Abb. 12 CH_4
Abhängigkeit des Druckeinflusses vom Druck

nach /8/— —●— nach /21/———○———

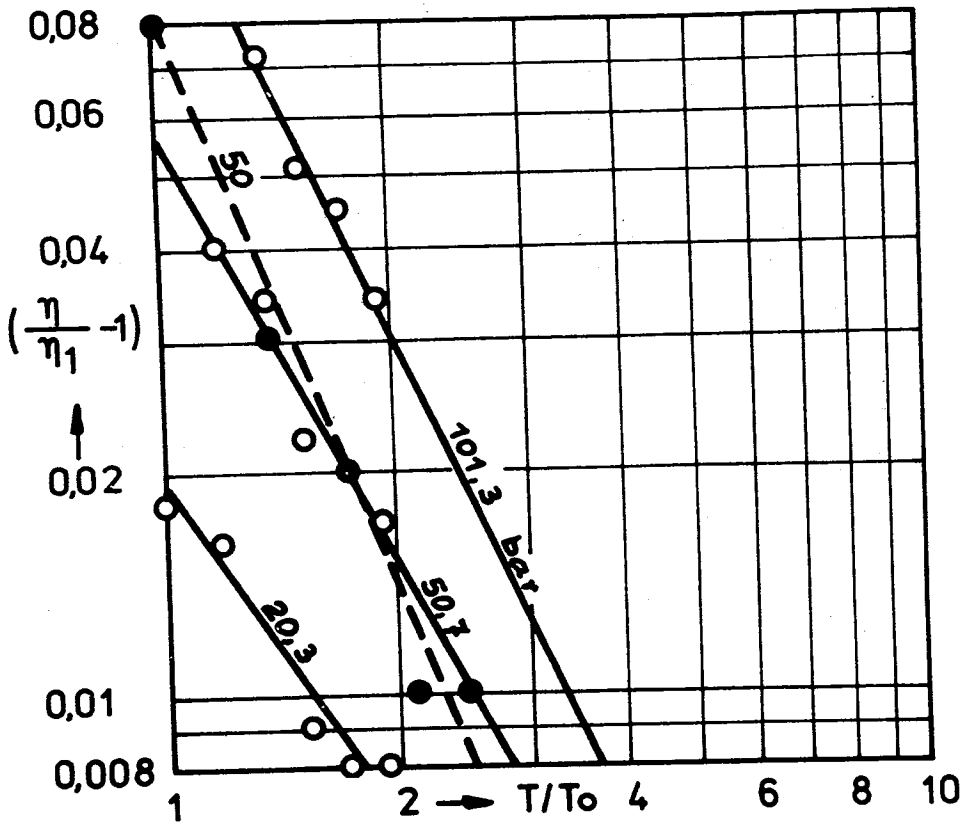


Abb. 13 CO
Abhängigkeit des Druckeinflusses
von der Temperatur

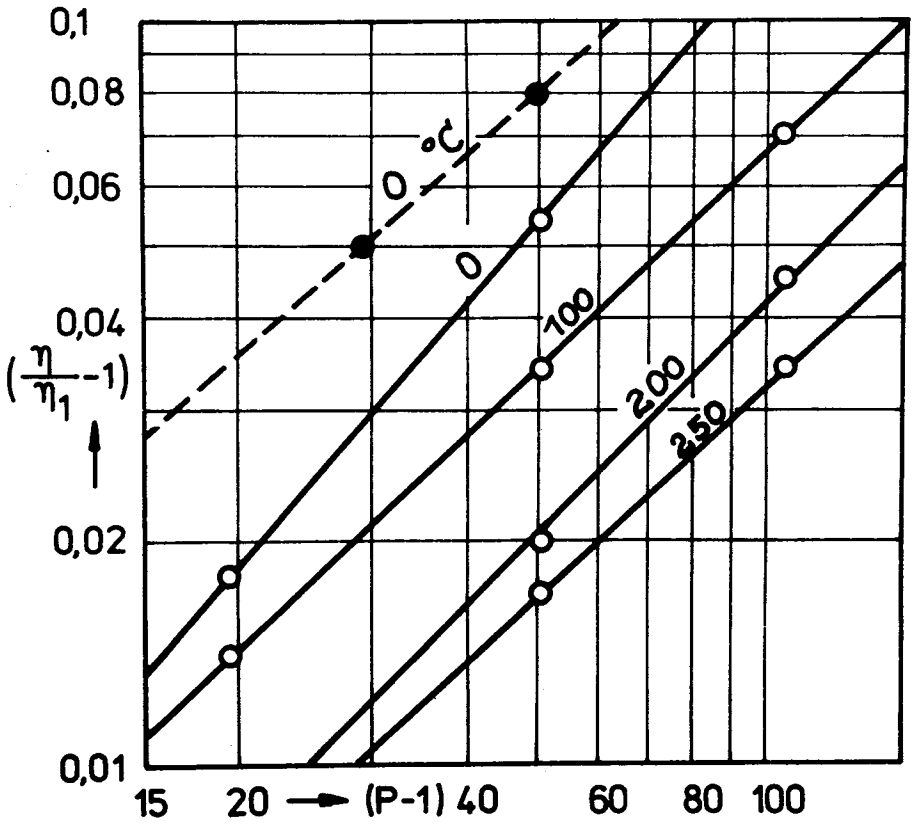


Abb. 14 CO
Abhängigkeit des Druckeinflusses
vom Druck

nach /8/— —●— — nach /21/——○——

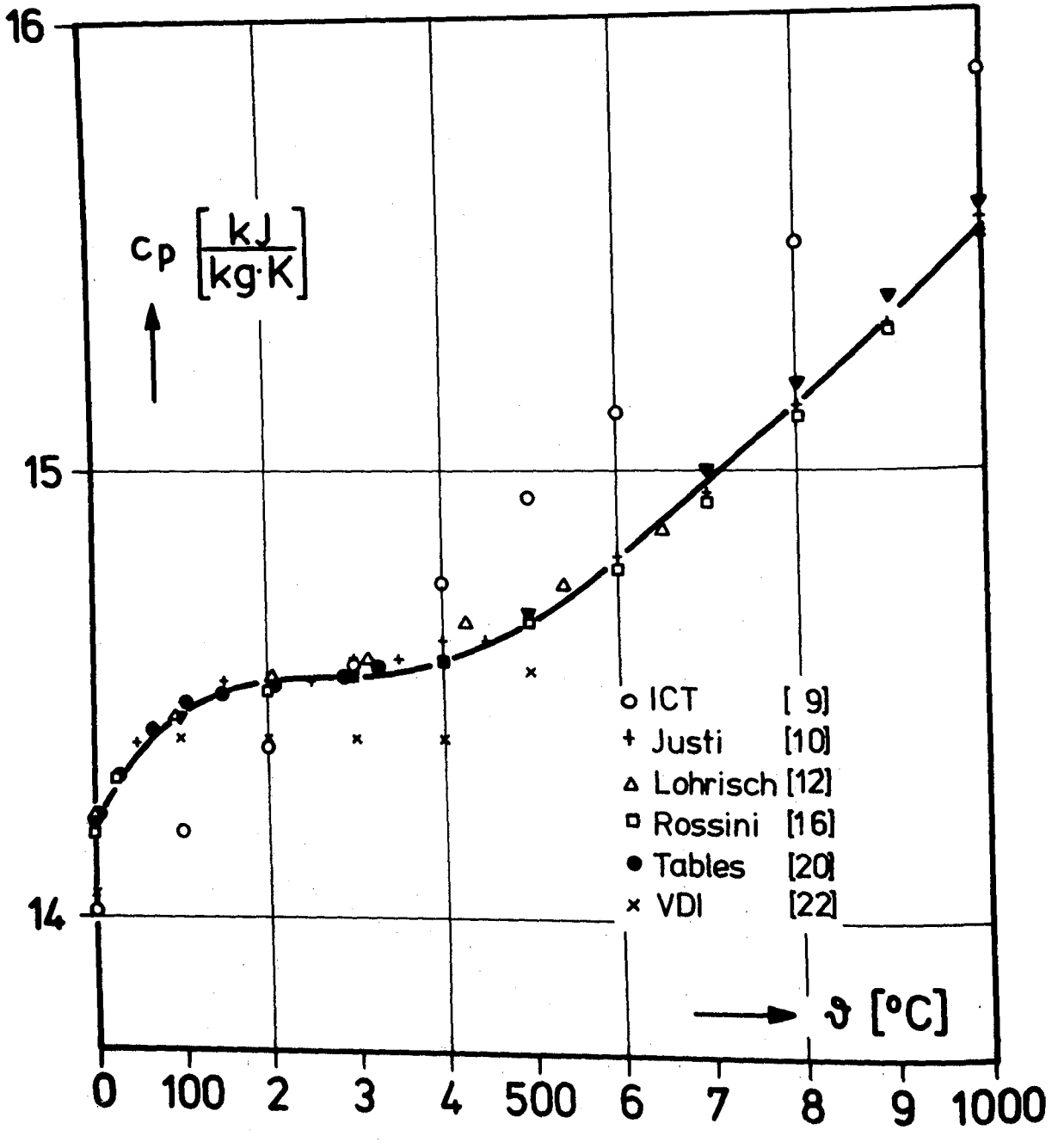


Abb. 15 Spezifische Wärmekapazität von Wasserstoff in Abhängigkeit von der Temperatur bei P = 1 bar.

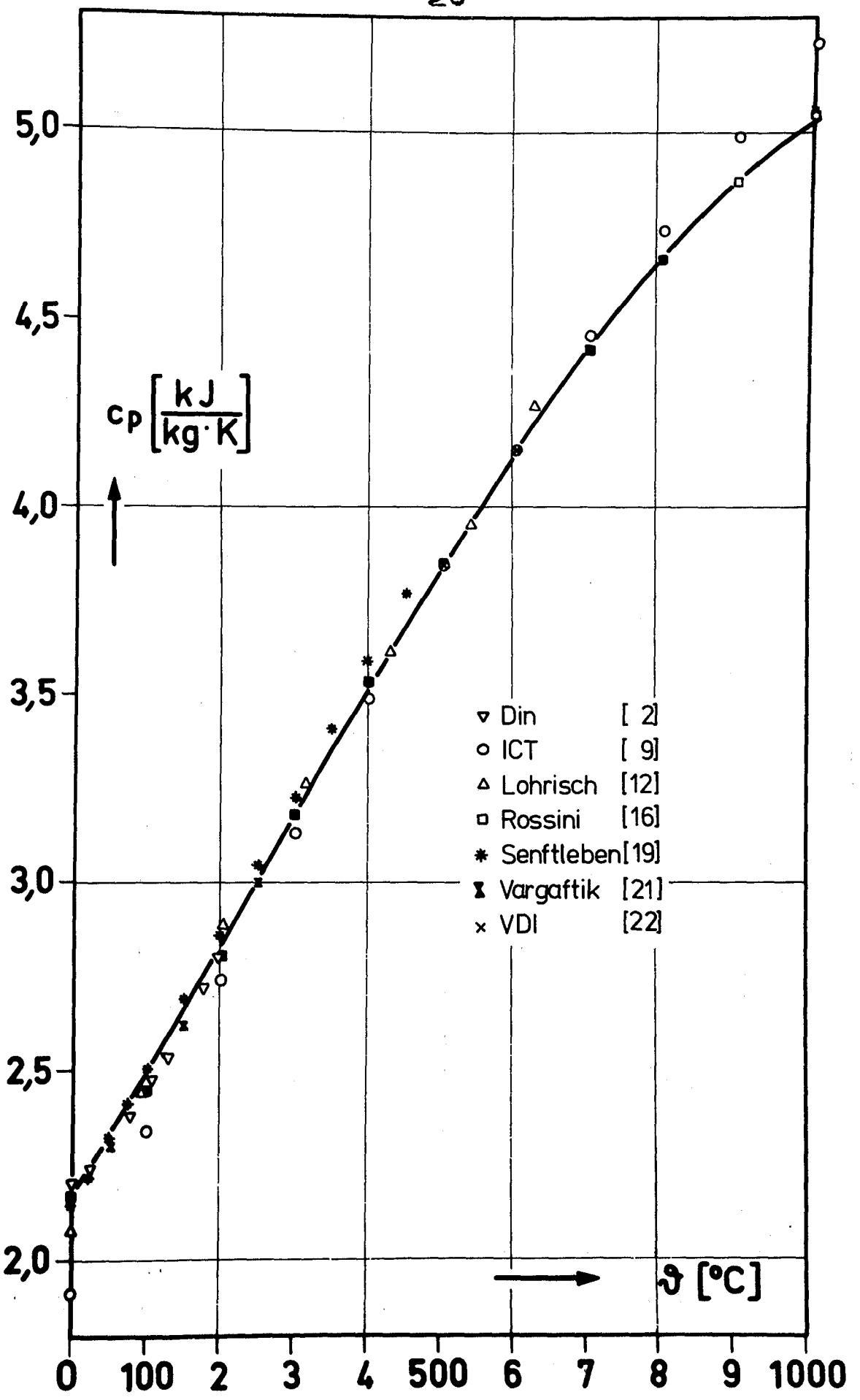


Abb. 16 Spezifische Wärmekapazität von Methan in Abhängigkeit von der Temperatur bei P = 1 bar.

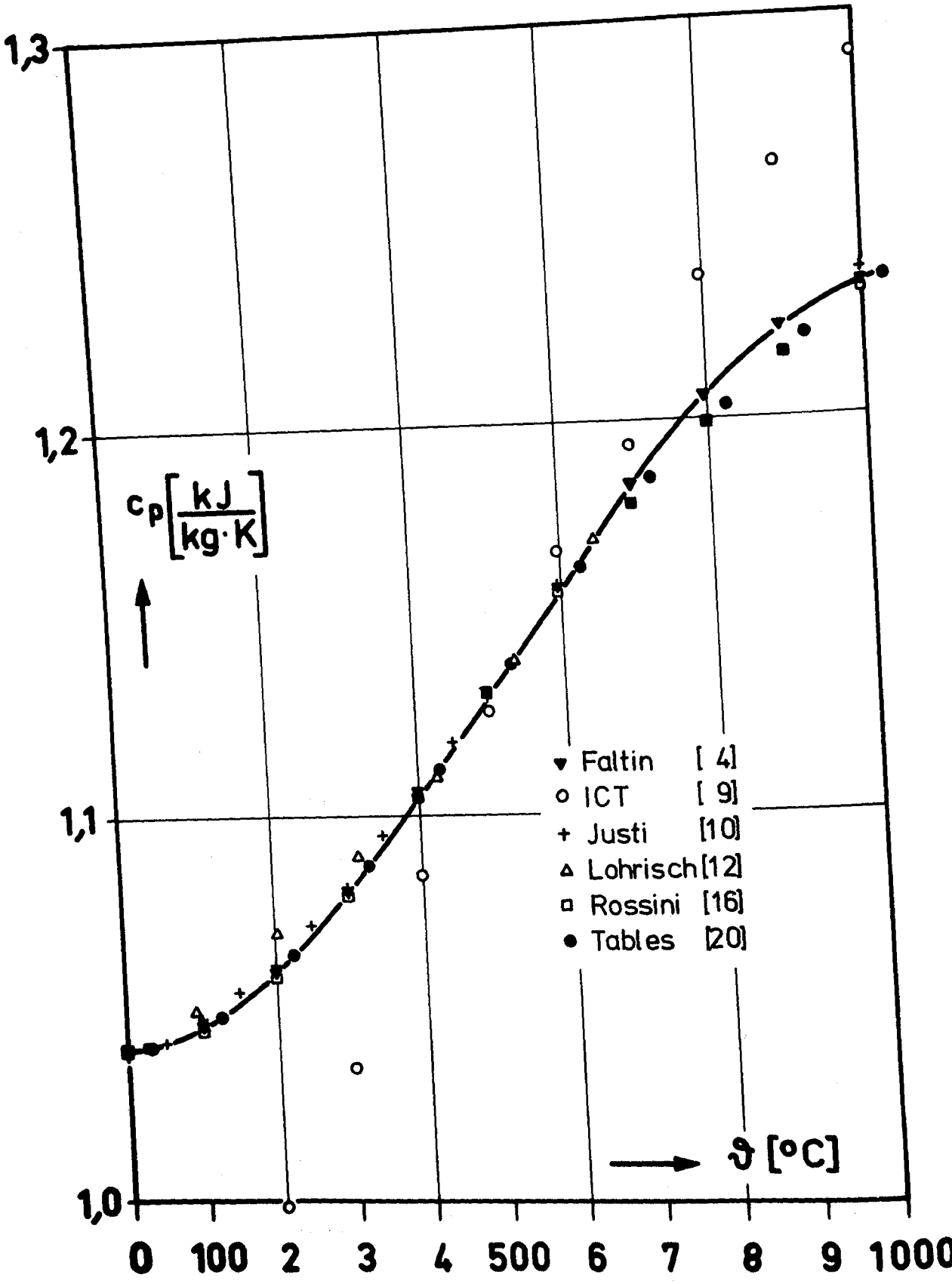


Abb. 17 Spezifische Wärmekapazität von Kohlenmonoxid in Abhängigkeit von der Temperatur bei P = 1 bar.

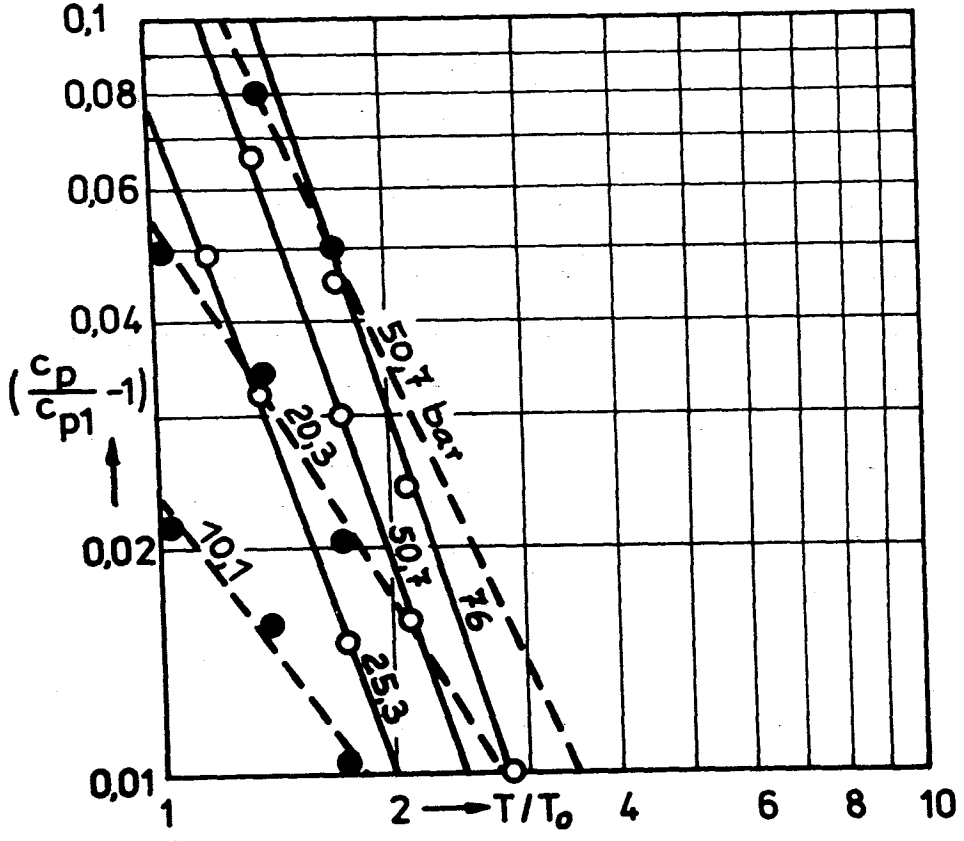


Abb. 18 CH_4
Abhängigkeit der Druckkorrektur von der Temperatur
nach /2/— —●— —

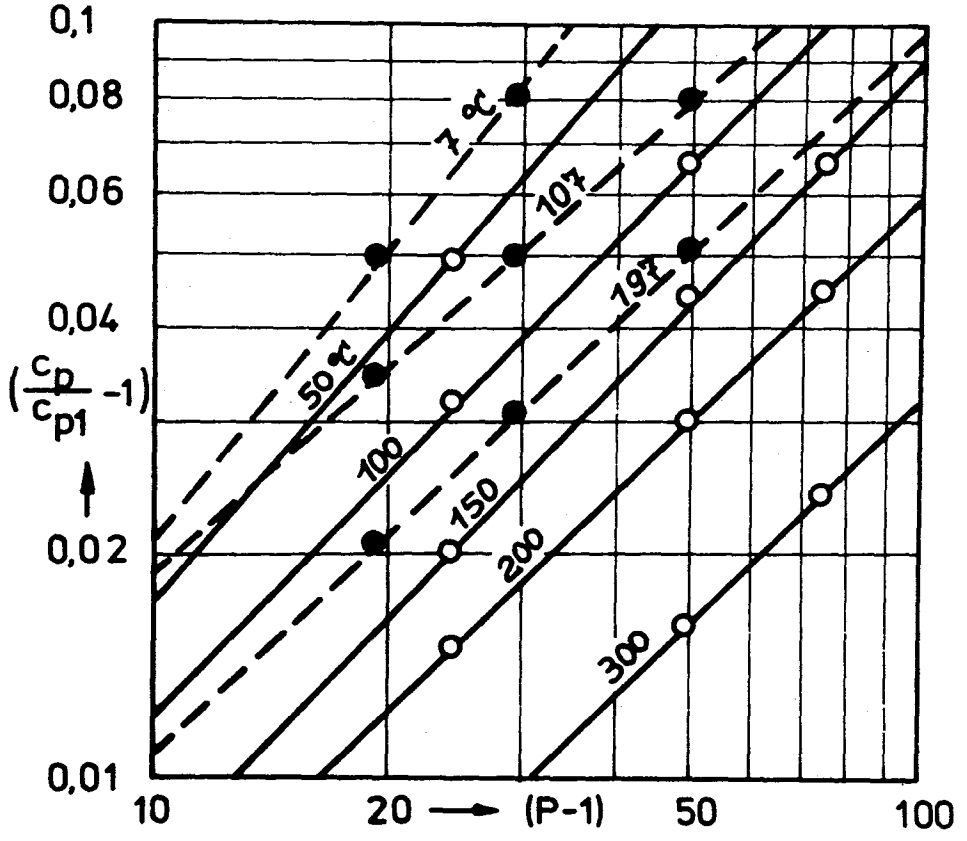


Abb. 19 CH_4
Abhängigkeit der Druckkorrektur vom Druck
nach /21/——○——

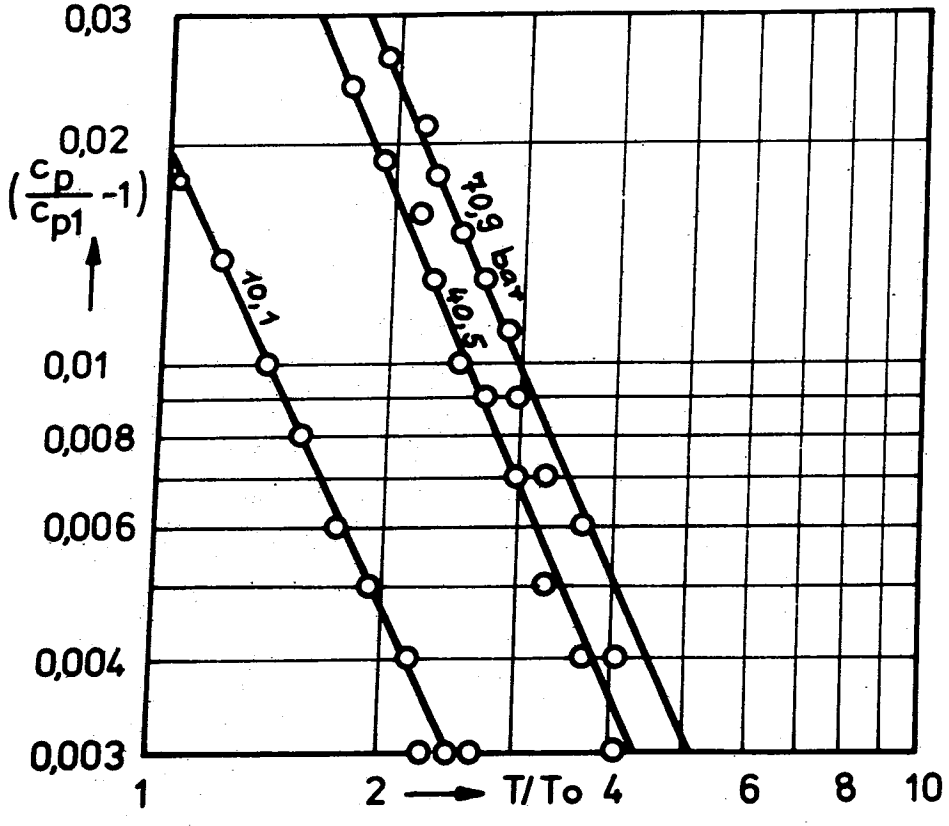


Abb. 2o CO
Abhängigkeit des Druckeinflusses
von der Temperatur

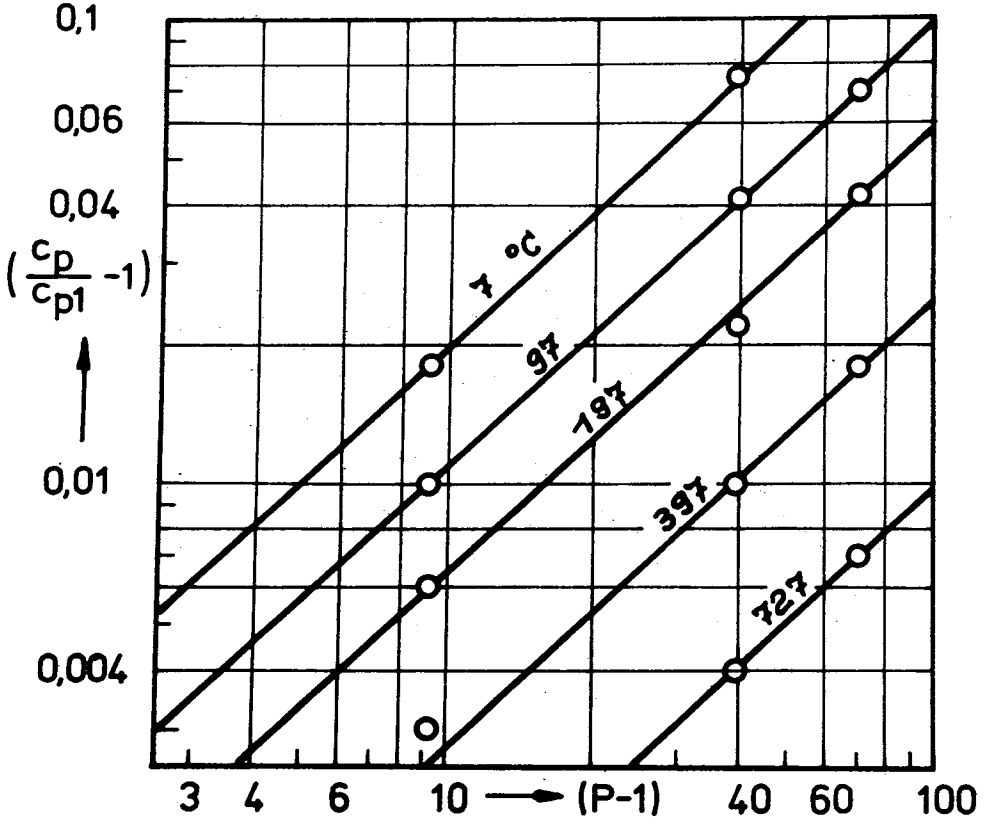


Abb. 21 CO
Abhängigkeit des Druckeinflusses
vom Druck

nach /21/

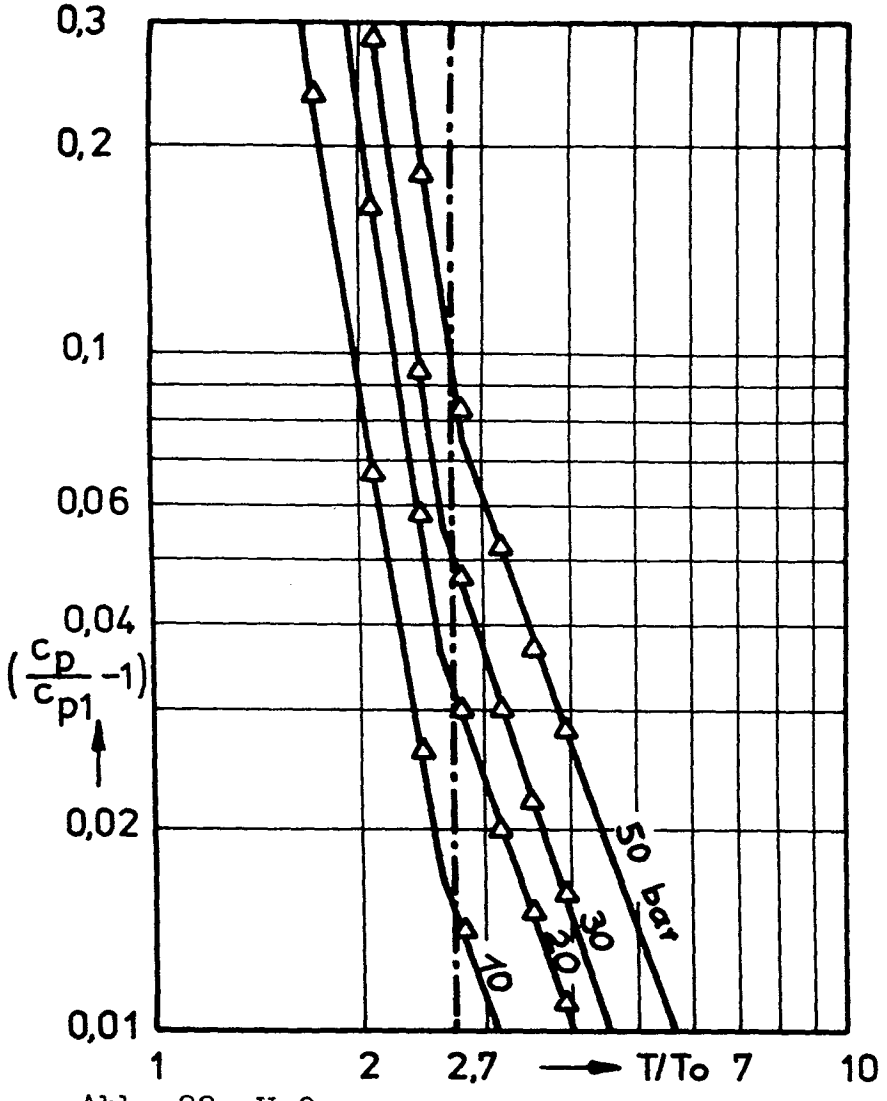


Abb. 22 H_2O
Abhängigkeit des Druckeinflusses von der Temperatur

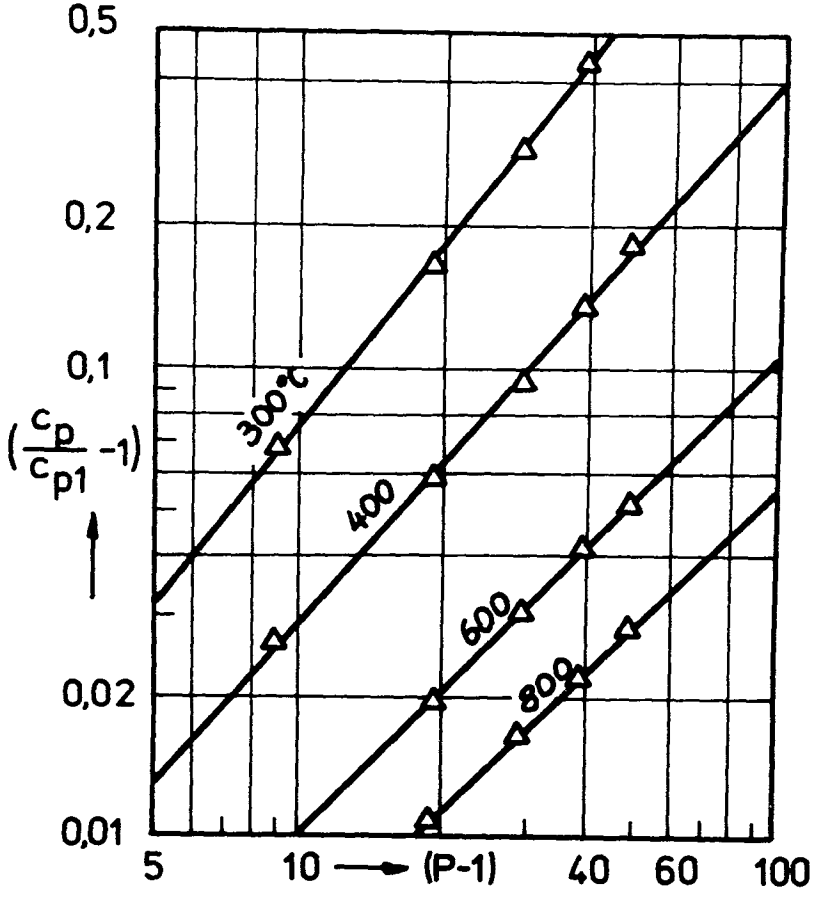


Abb. 23 H_2O
Abhängigkeit des Druckeinflusses vom Druck

nach /18/ ——△——

****

* STOFFWERTE FUER H2 *

****

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	0.08871	0.17044	8.3161E-06	14.2052	0.69
20.	0.08266	0.18087	8.7813E-06	14.2738	0.69
40.	0.07738	0.19103	9.2311E-06	14.3321	0.69
60.	0.07274	0.20092	9.6666E-06	14.3810	0.69
80.	0.06862	0.21057	1.0089E-05	14.4214	0.69
100.	0.06494	0.22000	1.0500E-05	14.4541	0.69
120.	0.06164	0.22921	1.0899E-05	14.4798	0.69
140.	0.05866	0.23823	1.1288E-05	14.4995	0.69
160.	0.05595	0.24706	1.1667E-05	14.5140	0.69
180.	0.05348	0.25572	1.2037E-05	14.5240	0.68
200.	0.05122	0.26422	1.2398E-05	14.5305	0.68
220.	0.04915	0.27256	1.2751E-05	14.5342	0.68
240.	0.04723	0.28076	1.3096E-05	14.5361	0.68
260.	0.04546	0.28882	1.3435E-05	14.5368	0.68
280.	0.04382	0.29675	1.3766E-05	14.5373	0.67
300.	0.04229	0.30456	1.4091E-05	14.5382	0.67
320.	0.04086	0.31226	1.4410E-05	14.5408	0.67
340.	0.03953	0.31984	1.4723E-05	14.5455	0.67
360.	0.03828	0.32733	1.5030E-05	14.5533	0.67
380.	0.03711	0.33471	1.5333E-05	14.5650	0.67
400.	0.03601	0.34200	1.5630E-05	14.5814	0.67
420.	0.03497	0.34919	1.5922E-05	14.6033	0.67
440.	0.03399	0.35631	1.6210E-05	14.6317	0.67
460.	0.03306	0.36334	1.6493E-05	14.6672	0.67
480.	0.03218	0.37029	1.6772E-05	14.7108	0.67
500.	0.03135	0.37716	1.7047E-05	14.7633	0.67
520.	0.03056	0.38397	1.7319E-05	14.6871	0.66
540.	0.02981	0.39071	1.7586E-05	14.7163	0.66
560.	0.02909	0.39738	1.7850E-05	14.7462	0.66
580.	0.02841	0.40398	1.8110E-05	14.7767	0.66
600.	0.02776	0.41053	1.8367E-05	14.8078	0.66
620.	0.02714	0.41702	1.8621E-05	14.8394	0.66
640.	0.02655	0.42345	1.8872E-05	14.8716	0.66
660.	0.02598	0.42983	1.9120E-05	14.9044	0.66
680.	0.02543	0.43616	1.9365E-05	14.9377	0.66
700.	0.02491	0.44243	1.9607E-05	14.9715	0.66
720.	0.02441	0.44866	1.9846E-05	15.0058	0.66
740.	0.02393	0.45484	2.0083E-05	15.0406	0.66
760.	0.02346	0.46098	2.0317E-05	15.0759	0.66
780.	0.02302	0.46707	2.0548E-05	15.1118	0.66
800.	0.02259	0.47312	2.0778E-05	15.1476	0.67
820.	0.02218	0.47913	2.1004E-05	15.1841	0.67
840.	0.02178	0.48510	2.1229E-05	15.2210	0.67
860.	0.02139	0.49103	2.1451E-05	15.2583	0.67
880.	0.02102	0.49693	2.1672E-05	15.2959	0.67
900.	0.02066	0.50279	2.1890E-05	15.3339	0.67
920.	0.02032	0.50862	2.2106E-05	15.3722	0.67
940.	0.01998	0.51441	2.2320E-05	15.4107	0.67
960.	0.01966	0.52017	2.2533E-05	15.4496	0.67
980.	0.01935	0.52590	2.2743E-05	15.4887	0.67
1000.	0.01904	0.53160	2.2952E-05	15.5281	0.67

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	C.44239	C.17C44	8.3161E-06	14.2052	0.69
20.	0.41227	C.18C87	8.7813E-C6	14.2738	C.69
40.	0.38599	0.19103	9.2311E-06	14.3321	0.69
6C.	0.3628E	C.2CC92	9.6668E-C6	14.3810	0.69
80.	0.34236	C.21057	1.C089E-C5	14.4214	C.69
10C.	0.32404	C.22C0C	1.0500E-05	14.4541	0.69
12C.	0.30759	C.22921	1.C899E-05	14.4798	C.69
14C.	0.29273	C.23823	1.1288E-05	14.4995	C.69
16C.	0.27924	C.247C6	1.1667E-05	14.514C	0.69
18C.	0.26694	0.25572	1.2C37E-05	14.524C	C.68
2CC.	0.25567	C.26422	1.2398E-05	14.53C5	C.68
22C.	0.24532	0.27256	1.2751E-C5	14.5342	C.68
24C.	0.23578	C.28C76	1.3096E-05	14.5361	0.68
26C.	0.22695	C.28882	1.3435E-C5	14.5368	C.68
28C.	0.21876	0.29675	1.3766E-05	14.5373	0.67
300.	0.21114	C.30456	1.4C91E-05	14.5383	C.67
32C.	0.20403	0.31226	1.4410E-05	14.54C8	C.67
34C.	0.19738	C.31984	1.4723E-05	14.5455	0.67
36C.	0.19116	C.32733	1.5C3CE-C5	14.5533	C.67
38C.	0.18531	C.33471	1.5333E-05	14.5650	0.67
40C.	0.17981	C.342CC	1.563CE-C5	14.5814	C.67
42C.	0.17463	C.34919	1.5922E-05	14.6033	0.67
44C.	0.16974	C.35631	1.6210E-05	14.6317	0.67
46C.	0.16512	0.36334	1.6493E-05	14.6672	C.67
48C.	C.16074	C.37029	1.6772E-05	14.7108	0.67
5CC.	0.15659	0.37716	1.7047E-05	14.7633	C.67
52C.	0.15264	C.38397	1.7319E-05	14.6871	0.66
54C.	0.14889	C.39071	1.7586E-05	14.7163	C.66
56C.	0.14532	0.39738	1.785CE-C5	14.7462	0.66
58C.	0.14192	C.4C398	1.8110E-05	14.7767	0.66
6CC.	0.13867	0.41053	1.8367E-05	14.8078	C.66
62C.	0.13557	C.41702	1.8621E-05	14.8394	0.66
64C.	0.13261	C.42345	1.8872E-C5	14.8716	C.66
66C.	0.12977	C.42983	1.9120E-05	14.9044	C.66
68C.	0.12705	C.43616	1.9365E-05	14.9377	C.66
7CC.	0.12444	C.44243	1.9607E-05	14.9715	C.66
72C.	C.12194	C.44866	1.9846E-05	15.0058	C.66
74C.	0.11953	0.45484	2.0083E-C5	15.C4C6	C.66
76C.	0.11722	C.46C98	2.0317E-05	15.0759	0.66
78C.	0.1150C	0.46707	2.0548E-05	15.1115	C.66
8CC.	C.11285	C.47312	2.0778E-05	15.1476	0.67
82C.	0.11079	C.47913	2.1004E-C5	15.1841	C.67
84C.	0.10880	0.48510	2.1229E-C5	15.2210	0.67
86C.	0.10688	C.491C3	2.1451E-C5	15.2583	0.67
88C.	0.10503	C.49693	2.1672E-C5	15.2959	0.67
9CC.	0.10324	C.50279	2.1890E-C5	15.3339	0.67
92C.	0.10151	C.50862	2.2106E-05	15.3722	C.67
94C.	0.C9984	C.51441	2.2320E-05	15.4107	0.67
96C.	0.C9822	C.52017	2.2533E-C5	15.4496	0.67
98C.	0.09666	0.52590	2.2743E-C5	15.4887	0.67
10CC.	0.C9514	C.5316C	2.2952E-05	15.5281	C.67

* H2 * P= 10. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	C.89192	C.17044	8.3161E-06	14.2052	C.69
20.	C.82199	C.18087	8.7813E-06	14.2738	0.69
40.	C.76970	C.19103	9.2311E-06	14.3321	C.69
60.	C.72368	C.20092	9.6668E-06	14.3810	0.69
80.	C.68286	C.21057	1.0089E-05	14.4214	C.69
100.	C.64641	C.22000	1.0500E-05	14.4541	0.69
120.	C.61365	C.22921	1.0899E-05	14.4798	0.69
140.	C.58406	C.23823	1.1288E-05	14.4995	C.69
160.	C.55720	C.24706	1.1667E-05	14.5140	0.69
180.	C.53269	C.25572	1.2037E-05	14.5240	C.68
200.	C.51026	C.26422	1.2398E-05	14.5305	0.68
220.	C.48964	C.27256	1.2751E-05	14.5342	0.68
240.	C.47062	C.28076	1.3096E-05	14.5361	0.68
260.	C.45303	C.28882	1.3435E-05	14.5368	0.68
280.	C.43670	C.29675	1.3766E-05	14.5373	C.67
300.	C.42151	C.30456	1.4091E-05	14.5383	0.67
320.	C.40734	C.31226	1.4410E-05	14.5408	C.67
340.	C.39410	C.31984	1.4723E-05	14.5455	C.67
360.	C.38168	C.32733	1.5030E-05	14.5533	C.67
380.	C.37003	C.33471	1.5333E-05	14.5650	C.67
400.	C.35907	C.34200	1.5630E-05	14.5814	C.67
420.	C.34874	C.34919	1.5922E-05	14.6033	C.67
440.	C.33898	C.35631	1.6210E-05	14.6317	C.67
460.	C.32976	C.36334	1.6493E-05	14.6672	C.67
480.	C.32103	C.37029	1.6772E-05	14.7108	C.67
500.	C.31274	C.37716	1.7047E-05	14.7633	C.67
520.	C.30488	C.38397	1.7319E-05	14.6871	C.66
540.	C.29740	C.39071	1.7586E-05	14.7163	C.66
560.	C.29028	C.39738	1.7850E-05	14.7462	C.66
580.	C.28349	C.40398	1.8110E-05	14.7767	C.66
600.	C.27701	C.41053	1.8367E-05	14.8078	C.66
620.	C.27082	C.41702	1.8621E-05	14.8394	C.66
640.	C.26490	C.42345	1.8872E-05	14.8716	C.66
660.	C.25924	C.42983	1.9120E-05	14.9044	C.66
680.	C.25381	C.43616	1.9365E-05	14.9377	C.66
700.	C.24860	C.44243	1.9607E-05	14.9715	C.66
720.	C.24361	C.44866	1.9846E-05	15.0058	C.66
740.	C.23881	C.45484	2.0083E-05	15.0406	C.66
760.	C.23419	C.46098	2.0317E-05	15.0759	C.66
780.	C.22976	C.46707	2.0548E-05	15.1115	C.66
800.	C.22548	C.47312	2.0778E-05	15.1476	C.67
820.	C.22136	C.47913	2.1004E-05	15.1841	C.67
840.	C.21739	C.48510	2.1229E-05	15.2210	C.67
860.	C.21356	C.49103	2.1451E-05	15.2583	C.67
880.	C.20987	C.49693	2.1672E-05	15.2959	C.67
900.	C.20630	C.50279	2.1890E-05	15.3339	C.67
920.	C.20284	C.50862	2.2106E-05	15.3722	C.67
940.	C.19951	C.51441	2.2320E-05	15.4107	C.67
960.	C.19628	C.52017	2.2533E-05	15.4496	C.67
980.	C.19315	C.52590	2.2743E-05	15.4887	C.67
1000.	C.19012	C.53160	2.2952E-05	15.5281	C.67

* H2 * P= 15. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	1.31861	C.17044	8.3161E-06	14.2052	C.69
20.	1.22918	C.18087	8.7813E-06	14.2738	0.69
40.	1.15115	C.19103	9.2311E-06	14.3321	C.69
6C.	1.08246	0.2CC92	9.6668E-06	14.381C	C.69
80.	1.02153	C.21057	1.C089E-05	14.4214	0.69
1CC.	0.96710	C.22CCC	1.0500E-05	14.4541	C.69
120.	0.91820	C.22921	1.0899E-05	14.4798	0.69
140.	0.87403	0.23823	1.1288E-05	14.4995	C.69
16C.	0.83388	C.24706	1.1667E-05	14.5140	C.69
18C.	0.79728	C.25572	1.2037E-05	14.524C	C.68
2CC.	0.76376	C.26422	1.2398E-05	14.53C5	0.68
22C.	0.73295	C.27256	1.2751E-05	14.5342	C.68
24C.	0.70453	0.28076	1.3096E-05	14.5361	0.68
26C.	0.67823	C.28882	1.3435E-05	14.5368	0.68
28C.	0.65383	C.29675	1.3766E-05	14.5373	C.67
3CC.	0.63113	C.3C456	1.4091E-05	14.5383	0.67
32C.	0.6C994	C.31226	1.4410E-05	14.54C8	C.67
34C.	C.59014	C.31984	1.4723E-05	14.5455	C.67
36C.	C.57158	C.32733	1.5C3CE-05	14.5533	C.67
38C.	C.55416	0.33471	1.5333E-05	14.565C	C.67
4CC.	C.53776	C.342CC	1.563CE-05	14.5814	C.67
42C.	0.52231	0.34919	1.5922E-05	14.6C33	C.67
44C.	C.5C772	C.35631	1.6210E-05	14.6317	0.67
46C.	C.49393	C.36334	1.6493E-05	14.6672	C.67
48C.	0.48086	0.37029	1.6772E-05	14.7108	C.67
5CC.	0.46847	C.37716	1.7C47E-05	14.7633	C.67
52C.	0.45670	0.38397	1.7319E-05	14.6871	0.66
54C.	C.44551	C.39071	1.7586E-05	14.7163	0.66
56C.	0.43486	C.39738	1.785CE-05	14.7462	0.66
58C.	0.4247C	C.4C398	1.8110E-05	14.7767	0.66
6CC.	0.4150C	C.41C53	1.8367E-05	14.8C78	C.66
62C.	0.40574	C.41702	1.8621E-05	14.8394	0.66
64C.	C.39688	C.42345	1.8872E-05	14.8716	0.66
66C.	0.38841	C.42983	1.9120E-05	14.9C44	C.66
68C.	C.38028	C.43616	1.9365E-05	14.9377	0.66
7CC.	0.37249	0.44243	1.96C7E-05	14.9715	C.66
72C.	C.36501	C.44866	1.9846E-05	15.0C58	0.66
74C.	C.35783	C.45484	2.CC83E-05	15.04C6	C.66
76C.	0.35092	0.46C98	2.0317E-05	15.0759	0.66
78C.	0.34428	C.46707	2.0548E-05	15.1115	0.66
8CC.	C.33788	0.47312	2.0778E-05	15.1476	C.67
82C.	0.33172	C.47913	2.1004E-05	15.1841	0.67
84C.	C.32577	C.4851C	2.1229E-05	15.221C	C.67
86C.	C.32004	C.49103	2.1451E-05	15.2583	C.67
88C.	0.31450	C.49693	2.1672E-05	15.2959	0.67
9CC.	C.30916	C.50279	2.1890E-05	15.3339	0.67
92C.	0.303C9	C.5C862	2.2106E-05	15.3722	C.67
94C.	0.29899	0.51441	2.2320E-05	15.41C7	C.67
96C.	0.29415	C.52017	2.2533E-05	15.4496	0.67
98C.	0.28947	C.5259C	2.2743E-05	15.4887	C.67
1CCC.	C.28493	C.5316C	2.2952E-05	15.5281	0.67

* H2 * P= 20. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	1.75244	0.17044	8.3161E-06	14.2052	0.69
20.	1.63384	0.18087	8.7813E-06	14.2738	0.69
40.	1.53034	0.19103	9.2311E-06	14.3321	0.69
60.	1.43921	0.20092	9.6668E-06	14.3810	0.69
80.	1.35836	0.21057	1.0089E-05	14.4214	0.69
100.	1.28614	0.22000	1.0500E-05	14.4541	0.69
120.	1.22122	0.22921	1.0899E-05	14.4798	0.69
140.	1.16256	0.23823	1.1288E-05	14.4995	0.69
160.	1.10929	0.24706	1.1667E-05	14.5140	0.69
180.	1.06069	0.25572	1.2037E-05	14.5240	0.68
200.	1.01618	0.26422	1.2398E-05	14.5305	0.68
220.	0.97526	0.27256	1.2751E-05	14.5342	0.68
240.	0.93751	0.28076	1.3096E-05	14.5361	0.68
260.	0.90257	0.28882	1.3435E-05	14.5368	0.68
280.	0.87015	0.29675	1.3766E-05	14.5373	0.67
300.	0.83999	0.30456	1.4091E-05	14.5383	0.67
320.	0.81184	0.31226	1.4410E-05	14.5408	0.67
340.	0.78552	0.31984	1.4723E-05	14.5455	0.67
360.	0.76086	0.32733	1.5030E-05	14.5533	0.67
380.	0.73769	0.33471	1.5333E-05	14.5650	0.67
400.	0.71590	0.34200	1.5630E-05	14.5814	0.67
420.	0.69536	0.34919	1.5922E-05	14.6033	0.67
440.	0.67596	0.35631	1.6210E-05	14.6317	0.67
460.	0.65762	0.36334	1.6493E-05	14.6672	0.67
480.	0.64025	0.37029	1.6772E-05	14.7108	0.67
500.	0.62377	0.37716	1.7047E-05	14.7633	0.67
520.	0.60812	0.38397	1.7319E-05	14.8271	0.66
540.	0.59324	0.39071	1.7586E-05	14.7163	0.66
560.	0.57907	0.39738	1.7850E-05	14.7462	0.66
580.	0.56556	0.40398	1.8110E-05	14.7767	0.66
600.	0.55266	0.41052	1.8367E-05	14.8078	0.66
620.	0.54034	0.41702	1.8621E-05	14.8394	0.66
640.	0.52856	0.42345	1.8872E-05	14.8716	0.66
660.	0.51728	0.42983	1.9120E-05	14.9044	0.66
680.	0.50647	0.43616	1.9365E-05	14.9377	0.66
700.	0.49611	0.44243	1.9607E-05	14.9715	0.66
720.	0.48616	0.44866	1.9846E-05	15.0058	0.66
740.	0.47660	0.45484	2.0083E-05	15.0406	0.66
760.	0.46741	0.46098	2.0317E-05	15.0759	0.66
780.	0.45857	0.46707	2.0548E-05	15.1115	0.66
800.	0.45006	0.47312	2.0778E-05	15.1476	0.67
820.	0.44185	0.47913	2.1004E-05	15.1841	0.67
840.	0.43394	0.48510	2.1229E-05	15.2210	0.67
860.	0.42631	0.49103	2.1451E-05	15.2583	0.67
880.	0.41895	0.49693	2.1672E-05	15.2959	0.67
900.	0.41183	0.50279	2.1890E-05	15.3339	0.67
920.	0.40495	0.50862	2.2106E-05	15.3722	0.67
940.	0.39830	0.51441	2.2320E-05	15.4107	0.67
960.	0.39186	0.52017	2.2533E-05	15.4496	0.67
980.	0.38563	0.52590	2.2743E-05	15.4887	0.67
1000.	0.37959	0.53160	2.2952E-05	15.5281	0.67

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	2.18344	C.17C44	8.3161E-C6	14.2C52	C.69
20.	2.03597	0.18087	8.7813E-06	14.2738	C.69
4C.	1.9C727	C.19103	9.2311E-06	14.3321	0.69
60.	1.79394	C.2CC92	9.6668E-06	14.381C	C.69
8C.	1.69337	C.21057	1.0089E-05	14.4214	0.69
100.	1.60352	C.22000	1.05CCE-C5	14.4541	C.69
12C.	1.52274	C.22921	1.0899E-05	14.4798	C.69
14C.	1.44974	C.23823	1.1288E-05	14.4995	0.69
16C.	1.38343	C.24706	1.1667E-05	14.514C	C.69
18C.	1.32294	C.25572	1.2037E-05	14.524C	0.68
200.	1.26752	C.26422	1.2398E-05	14.53C5	C.68
22C.	1.21657	C.27256	1.2751E-05	14.5342	C.68
24C.	1.16956	C.28C76	1.3C96E-C5	14.5361	C.68
26C.	1.12606	0.28882	1.3435E-C5	14.5368	C.68
28C.	1.C8567	C.29675	1.3766E-05	14.5373	0.67
3CC.	1.04809	0.30456	1.4C91E-05	14.5383	C.67
32C.	1.013C3	C.31226	1.4410E-C5	14.5408	0.67
340.	0.98024	C.31984	1.4723E-C5	14.5455	C.67
36C.	0.94951	0.32733	1.5030E-05	14.5533	C.67
38C.	0.92064	C.33471	1.5333E-05	14.5650	0.67
4CC.	C.89348	C.34200	1.5630E-05	14.5814	0.67
42C.	C.86788	C.34919	1.5922E-C5	14.6033	0.67
44C.	0.84371	C.35631	1.6210E-05	14.6317	C.67
46C.	C.82C85	C.36334	1.6493E-05	14.6672	C.67
48C.	C.79919	C.37029	1.6772E-C5	14.71C8	C.67
5CC.	C.77865	C.37716	1.7047E-05	14.7633	C.67
52C.	0.75914	C.38397	1.7319E-05	14.6871	C.66
54C.	C.74058	0.39071	1.7586E-C5	14.7163	C.66
56C.	0.72291	C.39738	1.7850E-C5	14.7462	0.66
58C.	C.7C606	0.4C398	1.8110E-05	14.7767	C.66
6CC.	0.68998	C.41053	1.8367E-05	14.8078	0.66
62C.	0.67462	C.41702	1.8621E-C5	14.8394	C.66
64C.	0.65993	0.42345	1.8872E-05	14.8716	C.66
66C.	C.64586	C.42983	1.912CE-C5	14.9044	0.66
68C.	0.63238	C.43616	1.9365E-C5	14.9377	C.66
7CC.	0.61945	C.44243	1.96C7E-05	14.9715	0.66
72C.	0.6C7C4	C.44866	1.9846E-C5	15.0058	C.66
74C.	C.59512	C.45484	2.0083E-C5	15.04CE	C.66
76C.	0.58366	C.46C98	2.C317E-C5	15.C759	C.66
78C.	C.57263	0.46707	2.0548E-C5	15.1115	C.66
8CC.	C.562C1	C.47312	2.C778E-C5	15.1476	C.67
82C.	0.55177	0.47913	2.1004E-C5	15.1841	C.67
84C.	C.5419C	C.48510	2.1229E-C5	15.2210	0.67
86C.	0.53238	C.49103	2.1451E-C5	15.2583	C.67
88C.	0.52319	C.49693	2.1672E-05	15.2959	0.67
9CC.	0.51431	C.5C279	2.189CE-C5	15.3339	C.67
92C.	0.50573	0.50862	2.2106E-05	15.3722	C.67
94C.	0.49743	C.51441	2.232CE-C5	15.41C7	0.67
96C.	0.48939	C.52C17	2.2533E-C5	15.4496	C.67
98C.	0.48162	C.52590	2.2743E-05	15.4887	C.67
1000.	0.47408	C.5316C	2.2952E-05	15.5281	C.67

T GRAD-C	PHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	2.61160	0.17044	8.3161E-06	14.2052	0.69
20.	2.43559	0.18087	8.7813E-06	14.2738	0.69
40.	2.28195	0.19103	9.2311E-06	14.3321	0.69
60.	2.14665	0.20092	9.6668E-06	14.3810	0.69
80.	2.02656	0.21057	1.0089E-05	14.4214	0.69
100.	1.91924	0.22000	1.0500E-05	14.4541	0.69
120.	1.82276	0.22921	1.0899E-05	14.4798	0.69
140.	1.73555	0.23823	1.1288E-05	14.4995	0.69
160.	1.65632	0.24706	1.1667E-05	14.5140	0.69
180.	1.58403	0.25572	1.2037E-05	14.5240	0.68
200.	1.51779	0.26422	1.2398E-05	14.5305	0.68
220.	1.45689	0.27256	1.2751E-05	14.5342	0.68
240.	1.40069	0.28076	1.3096E-05	14.5361	0.68
260.	1.34868	0.28882	1.3435E-05	14.5368	0.68
280.	1.30039	0.29675	1.3766E-05	14.5373	0.67
300.	1.25545	0.30456	1.4091E-05	14.5383	0.67
320.	1.21352	0.31226	1.4410E-05	14.5408	0.67
340.	1.17430	0.31984	1.4723E-05	14.5455	0.67
360.	1.13753	0.32733	1.5030E-05	14.5533	0.67
380.	1.10301	0.33471	1.5333E-05	14.5650	0.67
400.	1.07051	0.34200	1.5630E-05	14.5814	0.67
420.	1.03988	0.34919	1.5922E-05	14.6033	0.67
440.	1.01096	0.35631	1.6210E-05	14.6317	0.67
460.	0.98360	0.36334	1.6493E-05	14.6672	0.67
480.	0.95769	0.37029	1.6772E-05	14.7108	0.67
500.	0.93310	0.37716	1.7047E-05	14.7633	0.67
520.	0.90975	0.38397	1.7319E-05	14.8271	0.66
540.	0.88754	0.39071	1.7586E-05	14.7163	0.66
560.	0.86638	0.39738	1.7850E-05	14.7462	0.66
580.	0.84622	0.40398	1.8110E-05	14.7767	0.66
600.	0.82697	0.41053	1.8367E-05	14.8078	0.66
620.	0.80858	0.41702	1.8621E-05	14.8394	0.66
640.	0.79098	0.42345	1.8872E-05	14.8716	0.66
660.	0.77414	0.42983	1.9120E-05	14.9044	0.66
680.	0.75800	0.43616	1.9365E-05	14.9377	0.66
700.	0.74252	0.44243	1.9607E-05	14.9715	0.66
720.	0.72766	0.44866	1.9846E-05	15.0058	0.66
740.	0.71338	0.45484	2.0083E-05	15.0406	0.66
760.	0.69966	0.46098	2.0317E-05	15.0759	0.66
780.	0.68645	0.46707	2.0548E-05	15.1115	0.66
800.	0.67373	0.47312	2.0778E-05	15.1476	0.67
820.	0.66147	0.47913	2.1004E-05	15.1841	0.67
840.	0.64965	0.48510	2.1229E-05	15.2210	0.67
860.	0.63825	0.49103	2.1451E-05	15.2583	0.67
880.	0.62724	0.49693	2.1672E-05	15.2959	0.67
900.	0.61661	0.50279	2.1890E-05	15.3339	0.67
920.	0.60632	0.50862	2.2106E-05	15.3722	0.67
940.	0.59638	0.51441	2.2320E-05	15.4107	0.67
960.	0.58676	0.52017	2.2533E-05	15.4496	0.67
980.	0.57744	0.52590	2.2743E-05	15.4887	0.67
1000.	0.56841	0.53160	2.2952E-05	15.5281	0.67

* H2 * P= 35. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	2.03692	0.17044	8.3161E-06	14.2052	0.69
20.	2.83271	0.18087	8.7813E-06	14.2738	0.69
40.	2.65440	0.19103	9.2311E-06	14.3321	0.69
60.	2.49735	0.20092	9.6668E-06	14.3810	0.69
80.	2.35794	0.21057	1.0089E-05	14.4214	0.69
100.	2.23333	0.22000	1.0500E-05	14.4541	0.69
120.	2.12129	0.22921	1.0899E-05	14.4798	0.69
140.	2.01999	0.23823	1.1288E-05	14.4995	0.69
160.	1.92795	0.24706	1.1667E-05	14.5140	0.69
180.	1.84396	0.25572	1.2037E-05	14.5240	0.68
200.	1.76700	0.26422	1.2398E-05	14.5305	0.68
220.	1.69623	0.27256	1.2751E-05	14.5342	0.68
240.	1.63091	0.28076	1.3096E-05	14.5361	0.68
260.	1.57045	0.28882	1.3435E-05	14.5368	0.68
280.	1.51432	0.29675	1.3766E-05	14.5373	0.67
300.	1.46207	0.30456	1.4091E-05	14.5383	0.67
320.	1.41331	0.31226	1.4410E-05	14.5408	0.67
340.	1.36770	0.31984	1.4723E-05	14.5455	0.67
360.	1.32495	0.32733	1.5030E-05	14.5533	0.67
380.	1.28479	0.33471	1.5333E-05	14.5650	0.67
400.	1.24700	0.34200	1.5630E-05	14.5814	0.67
420.	1.21136	0.34919	1.5922E-05	14.6033	0.67
440.	1.17772	0.35631	1.6210E-05	14.6317	0.67
460.	1.14589	0.36334	1.6493E-05	14.6672	0.67
480.	1.11573	0.37029	1.6772E-05	14.7108	0.67
500.	1.08713	0.37716	1.7047E-05	14.7633	0.67
520.	1.05996	0.38397	1.7319E-05	14.6871	0.66
540.	1.03411	0.39071	1.7586E-05	14.7163	0.66
560.	1.00949	0.39738	1.7850E-05	14.7462	0.66
580.	0.98602	0.40398	1.8110E-05	14.7767	0.66
600.	0.96362	0.41053	1.8367E-05	14.8078	0.66
620.	0.94221	0.41702	1.8621E-05	14.8394	0.66
640.	0.92174	0.42345	1.8872E-05	14.8716	0.66
660.	0.90213	0.42983	1.9120E-05	14.9044	0.66
680.	0.88334	0.43616	1.9365E-05	14.9377	0.66
700.	0.86532	0.44243	1.9607E-05	14.9715	0.66
720.	0.84802	0.44866	1.9846E-05	15.0058	0.66
740.	0.83140	0.45484	2.0083E-05	15.0406	0.66
760.	0.81542	0.46098	2.0317E-05	15.0759	0.66
780.	0.80004	0.46707	2.0548E-05	15.1119	0.66
800.	0.78523	0.47312	2.0778E-05	15.1476	0.67
820.	0.77096	0.47913	2.1004E-05	15.1841	0.67
840.	0.75720	0.48510	2.1229E-05	15.2210	0.67
860.	0.74392	0.49103	2.1451E-05	15.2583	0.67
880.	0.73110	0.49693	2.1672E-05	15.2959	0.67
900.	0.71871	0.50279	2.1890E-05	15.3339	0.67
920.	0.70674	0.50862	2.2106E-05	15.3722	0.67
940.	0.69516	0.51441	2.2320E-05	15.4107	0.67
960.	0.68395	0.52017	2.2533E-05	15.4496	0.67
980.	0.67310	0.52590	2.2743E-05	15.4887	0.67
1000.	0.66258	0.53160	2.2952E-05	15.5281	0.67

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	3.45943	0.17044	8.3161E-06	14.2052	0.69
20.	3.22732	0.18087	8.7813E-06	14.2738	0.69
40.	3.02463	0.19103	9.2311E-06	14.3321	0.69
60.	2.84605	0.20092	9.6668E-06	14.3810	0.69
80.	2.68751	0.21057	1.0089E-05	14.4214	0.69
100.	2.54579	0.22000	1.0500E-05	14.4541	0.69
120.	2.41833	0.22921	1.0899E-05	14.4798	0.69
140.	2.30307	0.23823	1.1288E-05	14.4995	0.69
160.	2.19834	0.24706	1.1667E-05	14.5140	0.69
180.	2.10275	0.25572	1.2037E-05	14.5240	0.68
200.	2.01515	0.26422	1.2398E-05	14.5305	0.68
220.	1.93458	0.27256	1.2751E-05	14.5342	0.68
240.	1.86022	0.28076	1.3096E-05	14.5361	0.68
260.	1.79137	0.28882	1.3435E-05	14.5366	0.68
280.	1.72745	0.29675	1.3766E-05	14.5373	0.67
300.	1.66794	0.30456	1.4091E-05	14.5383	0.67
320.	1.61240	0.31226	1.4410E-05	14.5408	0.67
340.	1.56045	0.31984	1.4723E-05	14.5455	0.67
360.	1.51174	0.32733	1.5030E-05	14.5533	0.67
380.	1.46599	0.33471	1.5333E-05	14.5650	0.67
400.	1.42293	0.34200	1.5632E-05	14.5814	0.67
420.	1.38233	0.34919	1.5922E-05	14.6033	0.67
440.	1.34398	0.35631	1.6210E-05	14.6317	0.67
460.	1.30771	0.36334	1.6493E-05	14.6672	0.67
480.	1.27334	0.37029	1.6772E-05	14.7108	0.67
500.	1.24074	0.37716	1.7047E-05	14.7623	0.67
520.	1.20976	0.38397	1.7319E-05	14.8271	0.66
540.	1.18030	0.39071	1.7586E-05	14.7163	0.66
560.	1.15224	0.39738	1.7850E-05	14.7462	0.66
580.	1.12548	0.40398	1.8110E-05	14.7767	0.66
600.	1.09994	0.41053	1.8367E-05	14.8078	0.66
620.	1.07553	0.41702	1.8621E-05	14.8394	0.66
640.	1.05218	0.42345	1.8872E-05	14.8716	0.66
660.	1.02983	0.42983	1.9120E-05	14.9044	0.66
680.	1.00840	0.43616	1.9365E-05	14.9377	0.66
700.	0.98785	0.44243	1.9607E-05	14.9715	0.66
720.	0.96812	0.44866	1.9846E-05	15.0058	0.66
740.	0.94917	0.45484	2.0083E-05	15.0406	0.66
760.	0.93094	0.46098	2.0317E-05	15.0759	0.66
780.	0.91340	0.46707	2.0548E-05	15.1115	0.66
800.	0.89650	0.47312	2.0778E-05	15.1476	0.67
820.	0.88023	0.47913	2.1004E-05	15.1841	0.67
840.	0.86453	0.48510	2.1229E-05	15.2210	0.67
860.	0.84938	0.49103	2.1451E-05	15.2583	0.67
880.	0.83476	0.49693	2.1672E-05	15.2959	0.67
900.	0.82063	0.50279	2.1890E-05	15.3339	0.67
920.	0.80697	0.50862	2.2106E-05	15.3722	0.67
940.	0.79376	0.51441	2.2320E-05	15.4107	0.67
960.	0.78097	0.52017	2.2533E-05	15.4496	0.67
980.	0.76859	0.52590	2.2743E-05	15.4887	0.67
1000.	0.75660	0.53160	2.2952E-05	15.5281	0.67

* H2 * P= 45. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	3.87913	C.17C44	8.3161E-C6	14.2C52	C.69
2C.	3.61944	C.18C87	8.7813E-C6	14.2738	0.69
4C.	3.39263	C.191C3	9.2311E-C6	14.3321	C.69
6C.	3.19277	C.2CC92	9.6668E-06	14.3810	0.69
8C.	3.C1529	C.21C57	1.CC89E-C5	14.4214	0.69
1CC.	2.85661	C.22CCC	1.0500E-05	14.4541	C.69
12C.	2.71389	C.22921	1.C899E-05	14.4798	0.69
14C.	2.58480	0.23823	1.1288E-C5	14.4995	C.69
16C.	2.46749	C.24706	1.1667E-05	14.5140	0.69
18C.	2.3604C	C.25572	1.2C37E-C5	14.524C	C.68
2CC.	2.26224	C.26422	1.2398E-05	14.5305	0.68
22C.	2.17195	C.27256	1.2751E-C5	14.5342	C.68
24C.	2.C8861	0.28076	1.3C96E-C5	14.5361	0.68
26C.	2.C1144	C.28882	1.3435E-C5	14.5368	0.68
28C.	1.93979	C.29675	1.3766E-C5	14.5373	C.67
3CC.	1.873C7	C.3C456	1.4C91E-C5	14.5383	0.67
32C.	1.81080	C.3122E	1.441CE-C5	14.54C8	C.67
34C.	1.75254	C.31984	1.4723E-05	14.5455	C.67
36C.	1.69792	C.32733	1.5C3CE-C5	14.5533	C.67
38C.	1.64661	0.33471	1.5333E-C5	14.565C	C.67
4CC.	1.59831	C.342CC	1.563CE-C5	14.5814	C.67
42C.	1.55277	0.34919	1.5922E-C5	14.6033	C.67
44C.	1.5C976	C.35631	1.6210E-05	14.6317	0.67
46C.	1.46906	C.36334	1.6493E-C5	14.6672	C.67
48C.	1.43051	C.37029	1.6772E-C5	14.71C8	C.67
5CC.	1.39393	C.37716	1.7C47E-C5	14.7633	C.67
52C.	1.35917	0.38397	1.7319E-C5	14.6671	C.66
54C.	1.32611	C.39C71	1.7586E-C5	14.7163	0.66
56C.	1.29462	C.39738	1.785CE-C5	14.7462	C.66
58C.	1.26459	C.4C398	1.8110E-05	14.7767	C.66
6CC.	1.23592	C.41C53	1.8367E-C5	14.8078	C.66
62C.	1.20853	C.417C2	1.8621E-05	14.8394	C.66
64C.	1.18232	C.42345	1.8872E-C5	14.8716	C.66
66C.	1.15723	0.42983	1.9120E-C5	14.9C44	C.66
68C.	1.13318	C.43616	1.9365E-05	14.9377	0.66
7CC.	1.11011	0.44243	1.9607E-05	14.9715	C.66
72C.	1.C8796	C.44866	1.9846E-05	15.0058	0.66
74C.	1.C6668	C.45484	2.CC83E-C5	15.C4C6	C.66
76C.	1.04622	C.46098	2.0317E-05	15.0759	0.66
78C.	1.02652	C.467C7	2.0548E-C5	15.1115	0.66
8CC.	1.C0756	0.47312	2.C778E-C5	15.1476	0.67
82C.	0.98928	C.47913	2.1CC4E-C5	15.1841	0.67
84C.	0.97166	C.4851C	2.1229E-C5	15.2210	C.67
86C.	C.95465	C.49103	2.1451E-05	15.2583	C.67
88C.	0.93822	C.49693	2.1672E-C5	15.2959	0.67
9CC.	0.92236	C.5C279	2.1890E-05	15.3339	C.67
92C.	0.9C702	C.5C862	2.21C6E-C5	15.3722	C.67
94C.	0.89218	C.51441	2.2320E-C5	15.41C7	C.67
96C.	0.87782	C.52C17	2.2533E-05	15.4496	0.67
98C.	0.86392	C.5259C	2.2743E-C5	15.4887	C.67
1CCC.	C.85045	C.5316C	2.2952E-05	15.5281	0.67

* H2 * P= 50. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	4.29602	0.17044	8.3161E-06	14.2052	0.69
20.	4.00909	0.18087	8.7813E-06	14.2738	0.69
40.	3.75842	0.19103	9.2311E-06	14.3321	0.69
60.	3.53750	0.20092	9.6668E-06	14.3810	0.69
80.	3.34128	0.21057	1.0089E-05	14.4214	0.69
100.	3.16582	0.22000	1.0500E-05	14.4541	0.69
120.	3.00797	0.22921	1.0899E-05	14.4798	0.69
140.	2.86518	0.23823	1.1288E-05	14.4995	0.69
160.	2.73540	0.24706	1.1667E-05	14.5140	0.69
180.	2.61690	0.25572	1.2037E-05	14.5240	0.68
200.	2.50829	0.26422	1.2398E-05	14.5305	0.68
220.	2.40835	0.27256	1.2751E-05	14.5342	0.68
240.	2.31610	0.28076	1.3096E-05	14.5361	0.68
260.	2.23067	0.28882	1.3435E-05	14.5368	0.68
280.	2.15134	0.29675	1.3766E-05	14.5373	0.67
300.	2.07747	0.30456	1.4091E-05	14.5383	0.67
320.	2.00851	0.31226	1.4410E-05	14.5408	0.67
340.	1.94399	0.31984	1.4723E-05	14.5455	0.67
360.	1.88350	0.32733	1.5030E-05	14.5533	0.67
380.	1.82666	0.33471	1.5333E-05	14.5650	0.67
400.	1.77316	0.34200	1.5630E-05	14.5814	0.67
420.	1.72270	0.34919	1.5922E-05	14.6033	0.67
440.	1.67505	0.35631	1.6210E-05	14.6317	0.67
460.	1.62996	0.36334	1.6493E-05	14.6672	0.67
480.	1.58724	0.37029	1.6772E-05	14.7108	0.67
500.	1.54670	0.37716	1.7047E-05	14.7633	0.67
520.	1.50818	0.38397	1.7319E-05	14.8271	0.66
540.	1.47154	0.39071	1.7586E-05	14.7163	0.66
560.	1.43664	0.39738	1.7850E-05	14.7462	0.66
580.	1.40335	0.40398	1.8110E-05	14.7767	0.66
600.	1.37158	0.41053	1.8367E-05	14.8078	0.66
620.	1.34121	0.41702	1.8621E-05	14.8394	0.66
640.	1.31216	0.42345	1.8872E-05	14.8716	0.66
660.	1.28434	0.42983	1.9120E-05	14.9044	0.66
680.	1.25768	0.43616	1.9365E-05	14.9377	0.66
700.	1.23210	0.44243	1.9607E-05	14.9715	0.66
720.	1.20755	0.44866	1.9846E-05	15.0058	0.66
740.	1.18395	0.45484	2.0083E-05	15.0406	0.66
760.	1.16126	0.46098	2.0317E-05	15.0759	0.66
780.	1.13942	0.46707	2.0548E-05	15.1115	0.66
800.	1.11839	0.47312	2.0778E-05	15.1476	0.67
820.	1.09812	0.47913	2.1004E-05	15.1841	0.67
840.	1.07857	0.48510	2.1229E-05	15.2210	0.67
860.	1.05971	0.49103	2.1451E-05	15.2583	0.67
880.	1.04150	0.49693	2.1672E-05	15.2959	0.67
900.	1.02390	0.50279	2.1890E-05	15.3339	0.67
920.	1.00689	0.50862	2.2106E-05	15.3722	0.67
940.	0.99043	0.51441	2.2320E-05	15.4107	0.67
960.	0.97450	0.52017	2.2533E-05	15.4496	0.67
980.	0.95908	0.52590	2.2743E-05	15.4887	0.67
1000.	0.94414	0.53160	2.2952E-05	15.5281	0.67

****
* STOFFWERTE FUER CH4 *
****

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	0.70810	0.02930	1.0649E-05	2.1635	0.79
20.	0.65945	0.03238	1.1310E-05	2.2290	0.78
40.	0.61708	0.03553	1.1952E-05	2.2952	0.77
60.	0.57986	0.03875	1.2577E-05	2.3618	0.77
80.	0.54688	0.04204	1.3184E-05	2.4290	0.76
100.	0.51747	0.04539	1.3776E-05	2.4965	0.76
120.	0.49106	0.04881	1.4354E-05	2.5644	0.75
140.	0.46723	0.05228	1.4917E-05	2.6326	0.75
160.	0.44561	0.05580	1.5468E-05	2.7010	0.75
180.	0.42591	0.05937	1.6006E-05	2.7697	0.75
200.	0.40787	0.06300	1.6532E-05	2.8384	0.74
220.	0.39131	0.06667	1.7047E-05	2.9072	0.74
240.	0.37604	0.07038	1.7552E-05	2.9761	0.74
260.	0.36191	0.07414	1.8047E-05	3.0448	0.74
280.	0.34882	0.07794	1.8532E-05	3.1135	0.74
300.	0.33663	0.08178	1.9009E-05	3.1820	0.74
320.	0.32527	0.08565	1.9476E-05	3.2503	0.74
340.	0.31466	0.08956	1.9936E-05	3.3183	0.74
360.	0.30471	0.09351	2.0387E-05	3.3860	0.74
380.	0.29538	0.09749	2.0831E-05	3.4533	0.74
400.	0.28660	0.10150	2.1268E-05	3.5202	0.74
420.	0.27832	0.10554	2.1698E-05	3.5865	0.74
440.	0.27051	0.10961	2.2122E-05	3.6523	0.74
460.	0.26313	0.11371	2.2539E-05	3.7175	0.74
480.	0.25614	0.11784	2.2950E-05	3.7820	0.74
500.	0.24952	0.12200	2.3355E-05	3.8458	0.74
520.	0.24322	0.12618	2.3754E-05	3.9087	0.74
540.	0.23724	0.13039	2.4148E-05	3.9709	0.74
560.	0.23154	0.13462	2.4537E-05	4.0321	0.73
580.	0.22612	0.13888	2.4921E-05	4.0923	0.73
600.	0.22094	0.14316	2.5300E-05	4.1516	0.73
620.	0.21599	0.14746	2.5674E-05	4.2097	0.73
640.	0.21126	0.15178	2.6043E-05	4.2668	0.73
660.	0.20673	0.15613	2.6409E-05	4.3226	0.73
680.	0.20239	0.16050	2.6770E-05	4.3772	0.73
700.	0.19823	0.16488	2.7126E-05	4.4305	0.73
720.	0.19424	0.16929	2.7479E-05	4.4824	0.73
740.	0.19040	0.17372	2.7828E-05	4.5329	0.73
760.	0.18672	0.17817	2.8173E-05	4.5819	0.72
780.	0.18317	0.18263	2.8515E-05	4.6294	0.72
800.	0.17976	0.18711	2.8853E-05	4.6753	0.72
820.	0.17647	0.19161	2.9187E-05	4.7196	0.72
840.	0.17330	0.19613	2.9518E-05	4.7621	0.72
860.	0.17024	0.20067	2.9846E-05	4.8029	0.71
880.	0.16729	0.20522	3.0171E-05	4.8419	0.71
900.	0.16444	0.20979	3.0493E-05	4.8789	0.71
920.	0.16168	0.21437	3.0811E-05	4.9141	0.71
940.	0.15902	0.21897	3.1127E-05	4.9472	0.70
960.	0.15644	0.22359	3.1440E-05	4.9783	0.70
980.	0.15394	0.22822	3.1750E-05	5.0073	0.70
1000.	0.15152	0.23286	3.2057E-05	5.0342	0.69

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	3.57557	C.C2961	1.C71CE-05	2.1972	C.79
20.	3.32283	0.03267	1.1366E-05	2.2572	C.79
40.	3.1043C	C.C358C	1.2004E-05	2.3190	0.78
60.	2.91332	C.C39CC	1.2625E-05	2.3823	C.77
8C.	2.74490	0.04228	1.3230E-05	2.4467	0.77
100.	2.59518	C.C4561	1.3819E-05	2.5120	C.76
120.	2.46117	0.04901	1.4394E-05	2.5780	C.76
14C.	2.34049	C.05247	1.4956E-05	2.6447	0.75
160.	2.23121	C.C5599	1.5504E-05	2.7118	C.75
18C.	2.13178	C.C5955	1.6040E-05	2.7794	0.75
200.	2.04C91	C.C6317	1.6565E-05	2.8472	C.75
220.	1.95753	C.C6683	1.7079E-05	2.9151	0.74
240.	1.88075	C.C7054	1.7582E-05	2.9833	C.74
26C.	1.80980	0.07429	1.8076E-05	3.0514	C.74
280.	1.74404	C.C7808	1.856CE-05	3.1196	0.74
30C.	1.68291	0.08191	1.9035E-05	3.1876	C.74
32C.	1.62595	C.C8578	1.9501E-05	3.2555	0.74
340.	1.57273	C.C8969	1.9960E-05	3.3231	C.74
36C.	1.52290	0.09363	2.0411E-05	3.3905	0.74
380.	1.47615	C.C976C	2.0854E-05	3.4574	0.74
40C.	1.43219	0.10161	2.1290E-05	3.5240	0.74
420.	1.39078	C.1C565	2.1719E-05	3.5901	0.74
440.	1.35170	C.1C972	2.2142E-05	3.6557	0.74
46C.	1.31477	C.11381	2.2558E-05	3.7207	C.74
48C.	1.27981	C.11794	2.2969E-05	3.7850	C.74
50C.	1.24666	C.12209	2.3373E-05	3.8485	0.74
52C.	1.21519	C.12627	2.3772E-05	3.9114	C.74
540.	1.18528	0.13048	2.4165E-05	3.9733	C.74
56C.	1.1568C	C.13471	2.4554E-05	4.0344	0.74
580.	1.12967	C.13896	2.4937E-05	4.0946	C.73
60C.	1.10378	C.14324	2.5315E-05	4.1537	0.73
620.	1.07905	C.14754	2.5689E-05	4.2117	0.73
640.	1.05541	0.15186	2.6058E-05	4.2687	0.73
660.	1.03278	C.15621	2.6423E-05	4.3244	0.73
680.	1.01110	C.16057	2.6784E-05	4.3789	C.73
70C.	C.99032	C.16496	2.714CE-05	4.4321	0.73
720.	0.97038	C.16936	2.7493E-05	4.4840	0.73
74C.	0.95122	0.17379	2.7841E-05	4.5344	C.72
760.	0.93281	C.17823	2.8186E-05	4.5833	C.72
78C.	0.91510	0.18270	2.8527E-05	4.6308	C.72
80C.	0.89804	C.18718	2.8865E-05	4.6766	C.72
82C.	0.88161	0.19168	2.9199E-05	4.7208	C.72
840.	0.86578	C.19619	2.9530E-05	4.7633	0.72
860.	0.85050	C.20073	2.9856E-05	4.8040	C.71
88C.	0.83575	0.20528	3.0182E-05	4.8429	C.71
900.	0.82151	C.20984	3.0504E-05	4.8800	0.71
92C.	0.80774	0.21443	3.0822E-05	4.9151	0.71
940.	0.79443	C.21903	3.1137E-05	4.9482	0.70
960.	0.78155	0.22364	3.1450E-05	4.9792	C.70
98C.	0.76908	C.22827	3.1760E-05	5.0082	0.70
1000.	0.75701	C.23292	3.2067E-05	5.0350	C.69

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	7.24051	0.03000	1.0799E-05	2.2345	0.80
20.	6.71019	0.03303	1.1449E-05	2.2884	0.79
40.	6.25583	0.03613	1.2082E-05	2.3455	0.78
60.	5.86152	0.03931	1.2698E-05	2.4050	0.78
80.	5.51569	0.04257	1.3298E-05	2.4663	0.77
100.	5.20961	0.04589	1.3883E-05	2.5292	0.77
120.	4.93661	0.04928	1.4455E-05	2.5932	0.76
140.	4.69148	0.05272	1.5013E-05	2.6581	0.76
160.	4.47004	0.05622	1.5558E-05	2.7238	0.75
180.	4.26895	0.05977	1.6092E-05	2.7901	0.75
200.	4.08549	0.06338	1.6614E-05	2.8568	0.75
220.	3.91738	0.06703	1.7125E-05	2.9239	0.75
240.	3.76275	0.07073	1.7627E-05	2.9913	0.75
260.	3.62002	0.07447	1.8118E-05	3.0587	0.74
280.	3.48784	0.07826	1.8600E-05	3.1263	0.74
300.	3.36508	0.08208	1.9074E-05	3.1938	0.74
320.	3.25075	0.08594	1.9539E-05	3.2612	0.74
340.	3.14400	0.08984	1.9996E-05	3.3284	0.74
360.	3.04410	0.09378	2.0445E-05	3.3953	0.74
380.	2.95040	0.09775	2.0887E-05	3.4620	0.74
400.	2.86233	0.10175	2.1322E-05	3.5283	0.74
420.	2.77941	0.10578	2.1750E-05	3.5941	0.74
440.	2.70118	0.10985	2.2172E-05	3.6594	0.74
460.	2.62726	0.11394	2.2587E-05	3.7241	0.74
480.	2.55731	0.11806	2.2997E-05	3.7882	0.74
500.	2.49100	0.12221	2.3400E-05	3.8516	0.74
520.	2.42805	0.12639	2.3798E-05	3.9143	0.74
540.	2.36823	0.13059	2.4191E-05	3.9761	0.74
560.	2.31129	0.13482	2.4579E-05	4.0370	0.74
580.	2.25704	0.13907	2.4961E-05	4.0970	0.74
600.	2.20529	0.14334	2.5339E-05	4.1560	0.73
620.	2.15586	0.14764	2.5712E-05	4.2139	0.73
640.	2.10861	0.15196	2.6080E-05	4.2708	0.73
660.	2.06339	0.15630	2.6445E-05	4.3264	0.73
680.	2.02008	0.16067	2.6805E-05	4.3808	0.73
700.	1.97855	0.16505	2.7160E-05	4.4339	0.73
720.	1.93870	0.16945	2.7512E-05	4.4857	0.73
740.	1.90043	0.17388	2.7861E-05	4.5360	0.73
760.	1.86364	0.17832	2.8205E-05	4.5849	0.73
780.	1.82826	0.18278	2.8546E-05	4.6323	0.72
800.	1.79420	0.18726	2.8883E-05	4.6780	0.72
820.	1.76138	0.19176	2.9217E-05	4.7222	0.72
840.	1.72974	0.19627	2.9547E-05	4.7646	0.72
860.	1.69923	0.20080	2.9874E-05	4.8053	0.71
880.	1.66978	0.20535	3.0199E-05	4.8441	0.71
900.	1.64132	0.20992	3.0520E-05	4.8811	0.71
920.	1.61383	0.21450	3.0838E-05	4.9162	0.71
940.	1.58724	0.21910	3.1153E-05	4.9492	0.70
960.	1.56152	0.22371	3.1465E-05	4.9803	0.70
980.	1.53662	0.22834	3.1775E-05	5.0092	0.70
1000.	1.51250	0.23298	3.2082E-05	5.0359	0.69

* CH4 * P= 15. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	10.99757	0.03039	1.0895E-05	2.2701	0.81
20.	10.16294	0.03339	1.1538E-05	2.3183	0.80
40.	9.45454	0.03647	1.2165E-05	2.3708	0.79
60.	8.84416	0.03963	1.2775E-05	2.4267	0.78
80.	8.31178	0.04286	1.3371E-05	2.4851	0.78
100.	7.84267	0.04617	1.3952E-05	2.5455	0.77
120.	7.42574	0.04954	1.4519E-05	2.6076	0.76
140.	7.05242	0.05297	1.5074E-05	2.6709	0.76
160.	6.71599	0.05645	1.5616E-05	2.7352	0.76
180.	6.41108	0.06000	1.6147E-05	2.8003	0.75
200.	6.13334	0.06359	1.6666E-05	2.8661	0.75
220.	5.87920	0.06723	1.7175E-05	2.9323	0.75
240.	5.64572	0.07092	1.7674E-05	2.9989	0.75
260.	5.43041	0.07466	1.8164E-05	3.0657	0.75
280.	5.23120	0.07843	1.8644E-05	3.1327	0.74
300.	5.04632	0.08225	1.9116E-05	3.1997	0.74
320.	4.87424	0.08611	1.9579E-05	3.2666	0.74
340.	4.71367	0.09000	2.0035E-05	3.3334	0.74
360.	4.56346	0.09393	2.0482E-05	3.4000	0.74
380.	4.42264	0.09789	2.0923E-05	3.4664	0.74
400.	4.29035	0.10189	2.1357E-05	3.5323	0.74
420.	4.16581	0.10592	2.1783E-05	3.5979	0.74
440.	4.04837	0.10998	2.2204E-05	3.6630	0.74
460.	3.93742	0.11407	2.2618E-05	3.7275	0.74
480.	3.83244	0.11819	2.3027E-05	3.7914	0.74
500.	3.73296	0.12233	2.3429E-05	3.8546	0.74
520.	3.63854	0.12650	2.3827E-05	3.9170	0.74
540.	3.54882	0.13070	2.4218E-05	3.9787	0.74
560.	3.46344	0.13493	2.4605E-05	4.0395	0.74
580.	3.38210	0.13917	2.4987E-05	4.0994	0.74
600.	3.30450	0.14345	2.5364E-05	4.1582	0.74
620.	3.23042	0.14774	2.5736E-05	4.2160	0.73
640.	3.15959	0.15206	2.6104E-05	4.2728	0.73
660.	3.09182	0.15640	2.6468E-05	4.3283	0.73
680.	3.02691	0.16076	2.6827E-05	4.3826	0.73
700.	2.96468	0.16514	2.7182E-05	4.4356	0.73
720.	2.90497	0.16954	2.7534E-05	4.4873	0.73
740.	2.84762	0.17396	2.7881E-05	4.5376	0.73
760.	2.79250	0.17840	2.8225E-05	4.5864	0.73
780.	2.73948	0.18286	2.8565E-05	4.6337	0.72
800.	2.68845	0.18734	2.8902E-05	4.6794	0.72
820.	2.63929	0.19184	2.9236E-05	4.7235	0.72
840.	2.59190	0.19635	2.9566E-05	4.7658	0.72
860.	2.54618	0.20088	2.9892E-05	4.8065	0.72
880.	2.50206	0.20543	3.0216E-05	4.8453	0.71
900.	2.45944	0.20999	3.0537E-05	4.8822	0.71
920.	2.41826	0.21457	3.0855E-05	4.9172	0.71
940.	2.37843	0.21917	3.1169E-05	4.9502	0.70
960.	2.33990	0.22378	3.1481E-05	4.9812	0.70
980.	2.30260	0.22841	3.1791E-05	5.0101	0.70
1000.	2.26647	0.23305	3.2097E-05	5.0368	0.69

* CH4 * P= 20. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	14.84937	0.03078	1.0995E-05	2.3048	0.82
20.	13.68172	0.03375	1.1631E-05	2.3472	0.81
40.	12.70023	0.03680	1.2251E-05	2.3953	0.80
60.	11.86069	0.03994	1.2856E-05	2.4477	0.79
80.	11.13251	0.04315	1.3447E-05	2.5033	0.78
100.	10.49368	0.04644	1.4024E-05	2.5615	0.77
120.	9.92790	0.04980	1.4587E-05	2.6216	0.77
140.	9.42274	0.05321	1.5138E-05	2.6833	0.76
160.	8.96856	0.05669	1.5677E-05	2.7463	0.76
180.	8.55772	0.06022	1.6204E-05	2.8103	0.76
200.	8.18408	0.06380	1.6721E-05	2.8751	0.75
220.	7.84267	0.06744	1.7227E-05	2.9405	0.75
240.	7.52936	0.07112	1.7724E-05	3.0063	0.75
260.	7.24072	0.07484	1.8211E-05	3.0725	0.75
280.	6.97389	0.07861	1.8690E-05	3.1389	0.75
300.	6.72643	0.08242	1.9159E-05	3.2054	0.75
320.	6.49625	0.08627	1.9621E-05	3.2719	0.74
340.	6.28158	0.09016	2.0075E-05	3.3383	0.74
360.	6.08087	0.09408	2.0521E-05	3.4046	0.74
380.	5.89277	0.09804	2.0960E-05	3.4706	0.74
400.	5.71613	0.10203	2.1393E-05	3.5363	0.74
420.	5.54990	0.10606	2.1818E-05	3.6016	0.74
440.	5.39318	0.11011	2.2238E-05	3.6664	0.74
460.	5.24517	0.11420	2.2651E-05	3.7307	0.74
480.	5.10515	0.11831	2.3058E-05	3.7944	0.74
500.	4.97249	0.12245	2.3460E-05	3.8574	0.74
520.	4.84661	0.12662	2.3856E-05	3.9197	0.74
540.	4.72700	0.13082	2.4247E-05	3.9812	0.74
560.	4.61320	0.13504	2.4633E-05	4.0419	0.74
580.	4.50479	0.13928	2.5014E-05	4.1016	0.74
600.	4.40140	0.14355	2.5390E-05	4.1604	0.74
620.	4.30268	0.14784	2.5762E-05	4.2181	0.74
640.	4.20832	0.15216	2.6129E-05	4.2747	0.73
660.	4.11804	0.15649	2.6492E-05	4.3301	0.73
680.	4.03157	0.16085	2.6850E-05	4.3844	0.73
700.	3.94868	0.16523	2.7205E-05	4.4373	0.73
720.	3.86915	0.16963	2.7556E-05	4.4889	0.73
740.	3.79277	0.17405	2.7903E-05	4.5391	0.73
760.	3.71936	0.17849	2.8246E-05	4.5878	0.73
780.	3.64876	0.18294	2.8586E-05	4.6351	0.72
800.	3.58080	0.18742	2.8922E-05	4.6807	0.72
820.	3.51533	0.19191	2.9255E-05	4.7247	0.72
840.	3.45222	0.19643	2.9585E-05	4.7670	0.72
860.	3.39135	0.20095	2.9911E-05	4.8076	0.72
880.	3.33260	0.20550	3.0235E-05	4.8464	0.71
900.	3.27585	0.21006	3.0555E-05	4.8833	0.71
920.	3.22101	0.21464	3.0872E-05	4.9182	0.71
940.	3.16798	0.21924	3.1187E-05	4.9512	0.70
960.	3.11668	0.22385	3.1498E-05	4.9822	0.70
980.	3.06702	0.22847	3.1807E-05	5.0110	0.70
1000.	3.01892	0.23311	3.2113E-05	5.0377	0.69

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	18.79836	0.03117	1.1098E-05	2.3386	0.83
20.	17.26698	C.03410	1.1727E-05	2.3755	0.82
40.	15.99255	C.03714	1.2341E-05	2.4193	0.80
60.	14.91044	C.04025	1.2940E-05	2.4683	0.79
80.	13.97714	0.04345	1.3526E-05	2.5211	0.78
100.	13.16194	C.04672	1.4097E-05	2.5770	0.78
120.	12.44245	C.05006	1.4657E-05	2.6353	C.77
140.	11.80187	0.05346	1.5204E-05	2.6955	0.77
160.	11.22723	C.05692	1.5739E-05	2.7572	0.76
180.	10.70842	C.06044	1.6264E-05	2.8200	C.76
200.	10.23734	C.06401	1.6778E-05	2.8839	0.76
220.	9.80745	C.06764	1.7281E-05	2.9484	0.75
240.	9.41339	0.07131	1.7775E-05	3.0136	0.75
260.	9.05071	C.07503	1.8261E-05	3.0791	0.75
280.	8.71571	0.07879	1.8737E-05	3.1450	C.75
300.	8.40523	0.08259	1.9205E-05	3.2110	0.75
320.	8.11663	0.08643	1.9664E-05	3.2770	C.75
340.	7.84760	C.09032	2.0117E-05	3.3431	0.74
360.	7.59620	C.09423	2.0561E-05	3.4090	C.74
380.	7.36069	0.09819	2.0999E-05	3.4747	0.74
400.	7.13960	C.10217	2.1430E-05	3.5401	0.74
420.	6.93160	0.10619	2.1854E-05	3.6052	C.74
440.	6.73557	C.11024	2.2272E-05	3.6698	0.74
460.	6.55046	C.11432	2.2684E-05	3.7339	C.74
480.	6.37539	0.11843	2.3091E-05	3.7974	0.74
500.	6.20955	C.12257	2.3491E-05	3.8602	0.74
520.	6.05222	0.12674	2.3886E-05	3.9224	0.74
540.	5.90274	C.13093	2.4276E-05	3.9837	0.74
560.	5.76055	C.13515	2.4661E-05	4.0443	0.74
580.	5.62511	0.13939	2.5042E-05	4.1039	C.74
600.	5.49596	C.14365	2.5417E-05	4.1625	C.74
620.	5.37264	C.14794	2.5788E-05	4.2201	0.74
640.	5.25480	C.15226	2.6154E-05	4.2766	0.73
660.	5.14204	0.15659	2.6517E-05	4.3319	C.73
680.	5.03406	C.16095	2.6875E-05	4.3861	0.73
700.	4.93055	0.16532	2.7229E-05	4.4389	C.73
720.	4.83124	C.16972	2.7579E-05	4.4905	0.73
740.	4.73588	C.17414	2.7925E-05	4.5406	C.73
760.	4.64422	0.17857	2.8268E-05	4.5893	0.73
780.	4.55608	C.18303	2.8607E-05	4.6364	0.72
800.	4.47123	0.18750	2.8943E-05	4.6820	0.72
820.	4.38950	C.19199	2.9276E-05	4.7260	0.72
840.	4.31073	C.19650	2.9605E-05	4.7682	C.72
860.	4.23473	C.20103	2.9931E-05	4.8087	C.72
880.	4.16139	C.20557	3.0254E-05	4.8475	C.71
900.	4.09055	C.21014	3.0573E-05	4.8843	0.71
920.	4.02211	C.21471	3.0890E-05	4.9192	0.71
940.	3.95591	0.21931	3.1204E-05	4.9522	C.70
960.	3.89188	C.22391	3.1516E-05	4.9831	0.70
980.	3.82988	C.22854	3.1824E-05	5.0119	C.70
1000.	3.76984	C.23318	3.2130E-05	5.0385	0.69

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	22.84666	0.03156	1.1205E-05	2.3719	C.84
20.	20.91890	C.03446	1.1826E-05	2.4034	0.82
40.	19.33092	C.03747	1.2433E-05	2.4429	C.81
60.	17.99261	C.04056	1.3026E-05	2.4885	0.80
80.	16.84480	C.04374	1.3606E-05	2.5387	0.79
100.	15.84664	C.04699	1.4173E-05	2.5924	C.78
120.	14.96868	C.05032	1.4728E-05	2.6488	C.78
140.	14.18916	0.05370	1.5271E-05	2.7074	C.77
160.	13.49147	C.05715	1.5803E-05	2.7678	0.77
180.	12.86272	C.06066	1.6325E-05	2.8296	C.76
200.	12.29271	C.06422	1.6835E-05	2.8925	0.76
220.	11.77320	C.06784	1.7337E-05	2.9563	C.76
240.	11.29752	0.07150	1.7828E-05	3.0207	0.75
260.	10.86013	C.07521	1.8311E-05	3.0856	0.75
280.	10.45642	C.07897	1.8785E-05	3.1509	C.75
300.	10.08255	C.08276	1.9251E-05	3.2165	0.75
320.	9.73521	C.08660	1.9709E-05	3.2821	C.75
340.	9.41161	C.09047	2.0159E-05	3.3478	C.75
360.	9.10933	C.09439	2.0602E-05	3.4134	C.75
380.	8.82628	0.09833	2.1039E-05	3.4788	C.74
400.	8.56064	C.10231	2.1468E-05	3.5439	C.74
420.	8.31083	0.10633	2.1891E-05	3.6087	C.74
440.	8.07544	C.11038	2.2308E-05	3.6731	0.74
460.	7.85322	C.11445	2.2719E-05	3.7370	C.74
480.	7.64310	0.11856	2.3124E-05	3.8003	0.74
500.	7.44409	C.12269	2.3523E-05	3.8630	C.74
520.	7.25532	0.12685	2.3918E-05	3.9250	C.74
540.	7.07601	C.13104	2.4307E-05	3.9862	0.74
560.	6.90546	C.13526	2.4691E-05	4.0466	C.74
580.	6.74302	C.13949	2.5070E-05	4.1060	C.74
600.	6.58814	C.14376	2.5445E-05	4.1646	C.74
620.	6.44028	C.14804	2.5815E-05	4.2221	C.74
640.	6.29898	C.15235	2.6181E-05	4.2785	C.74
660.	6.16380	0.15669	2.6542E-05	4.3337	C.73
680.	6.03435	C.16104	2.6899E-05	4.3878	0.73
700.	5.91026	0.16541	2.7253E-05	4.4405	C.73
720.	5.79122	C.16981	2.7602E-05	4.4920	0.73
740.	5.67692	C.17422	2.7948E-05	4.5420	C.73
760.	5.56708	0.17866	2.8291E-05	4.5907	C.73
780.	5.46143	C.18311	2.8629E-05	4.6378	0.73
800.	5.35974	0.18758	2.8964E-05	4.6833	C.72
820.	5.26180	C.19207	2.9296E-05	4.7272	0.72
840.	5.16739	C.19658	2.9625E-05	4.7694	C.72
860.	5.07633	C.20111	2.9951E-05	4.8099	C.72
880.	4.98843	C.20565	3.0273E-05	4.8485	0.71
900.	4.90355	C.21021	3.0592E-05	4.8853	0.71
920.	4.82153	C.21478	3.0909E-05	4.9202	C.71
940.	4.74221	0.21938	3.1223E-05	4.9531	C.70
960.	4.66547	C.22398	3.1533E-05	4.9840	0.70
980.	4.59119	C.22861	3.1842E-05	5.0127	C.70
1000.	4.51925	C.23325	3.2147E-05	5.0393	0.69

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	26.99605	C.C3194	1.1313E-05	2.4048	C.85
20.	24.63737	C.C3482	1.1926E-05	2.4309	0.83
40.	22.71460	C.C3780	1.2526E-05	2.4662	C.82
60.	21.10629	C.04088	1.3114E-05	2.5085	C.80
80.	19.73465	C.C44C3	1.3688E-05	2.5560	0.79
100.	18.54695	0.04727	1.4251E-05	2.6075	C.79
120.	17.50566	C.C5058	1.4801E-05	2.6621	0.78
140.	16.58398	C.C5395	1.5341E-05	2.7192	C.77
160.	15.76074	0.05739	1.5869E-05	2.7784	0.77
180.	15.02018	C.C6C88	1.6387E-05	2.8391	0.76
200.	14.34979	0.06444	1.6895E-05	2.9010	0.76
220.	13.73959	C.C6804	1.7393E-05	2.9640	0.76
240.	13.18145	C.C7169	1.7882E-05	3.0277	C.76
260.	12.66671	C.C754C	1.8362E-05	3.0921	0.75
280.	12.19585	C.C7914	1.8834E-05	3.1568	C.75
300.	11.75819	C.C8293	1.9298E-05	3.2219	C.75
320.	11.35185	C.C8676	1.9754E-05	3.2871	0.75
340.	10.97345	0.09063	2.0203E-05	3.3524	C.75
360.	10.62015	C.C9454	2.0644E-05	3.4177	0.75
380.	10.28946	C.C9848	2.1079E-05	3.4828	C.75
400.	9.97919	C.1C246	2.1507E-05	3.5476	0.74
420.	9.68751	C.1C647	2.1929E-05	3.6122	C.74
440.	9.41273	0.11051	2.2344E-05	3.6764	0.74
460.	9.15340	C.11458	2.2754E-05	3.7400	0.74
480.	8.90823	C.11868	2.3158E-05	3.8032	C.74
500.	8.67607	C.12281	2.3556E-05	3.8657	0.74
520.	8.45589	C.12697	2.3949E-05	3.9275	0.74
540.	8.24677	C.13116	2.4338E-05	3.9886	C.74
560.	8.04788	C.13537	2.4721E-05	4.0488	C.74
580.	7.85850	0.13960	2.5099E-05	4.1082	C.74
600.	7.67793	C.14386	2.5473E-05	4.1666	C.74
620.	7.50557	0.14815	2.5842E-05	4.2240	0.74
640.	7.34085	C.15245	2.6207E-05	4.2803	0.74
660.	7.18330	C.15678	2.6568E-05	4.3355	C.73
680.	7.03243	0.16113	2.6925E-05	4.3894	0.73
700.	6.88783	C.16550	2.7278E-05	4.4421	C.73
720.	6.74910	0.16990	2.7627E-05	4.4935	C.73
740.	6.61590	C.17431	2.7972E-05	4.5435	0.73
760.	6.48790	C.17874	2.8313E-05	4.5920	0.73
780.	6.36481	0.18319	2.8652E-05	4.6391	0.73
800.	6.24632	C.18766	2.8986E-05	4.6845	C.72
820.	6.13220	C.19215	2.9318E-05	4.7284	0.72
840.	6.02221	C.19666	2.9646E-05	4.7705	0.72
860.	5.91612	0.20118	2.9971E-05	4.8110	0.72
880.	5.81372	C.20572	3.0293E-05	4.8496	0.71
900.	5.71483	0.21028	3.0612E-05	4.8863	0.71
920.	5.61927	C.21486	3.0928E-05	4.9212	0.71
940.	5.52687	C.21945	3.1241E-05	4.9540	0.71
960.	5.43747	0.22405	3.1552E-05	4.9848	0.70
980.	5.35093	C.22867	3.1859E-05	5.0136	0.70
1000.	5.26712	0.23331	3.2165E-05	5.0402	0.69

* CH4 * P= 40. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	31.24783	0.03233	1.1423E-05	2.4373	0.86
20.	28.42191	0.03518	1.2029E-05	2.4580	0.84
40.	26.14259	0.03814	1.2622E-05	2.4893	0.82
60.	24.25037	0.04119	1.3203E-05	2.5282	0.81
80.	22.64563	0.04433	1.3772E-05	2.5730	0.80
100.	21.26199	0.04754	1.4330E-05	2.6224	0.79
120.	20.05322	0.05084	1.4876E-05	2.6752	0.78
140.	18.98573	0.05420	1.5411E-05	2.7309	0.78
160.	18.03447	0.05762	1.5936E-05	2.7888	0.77
180.	17.18028	0.06111	1.6450E-05	2.8484	0.77
200.	16.40819	0.06465	1.6955E-05	2.9094	0.76
220.	15.70628	0.06824	1.7450E-05	2.9716	0.76
240.	15.06492	0.07189	1.7937E-05	3.0347	0.76
260.	14.47624	0.07558	1.8415E-05	3.0984	0.75
280.	13.93374	0.07932	1.8884E-05	3.1627	0.75
300.	13.43198	0.08310	1.9346E-05	3.2273	0.75
320.	12.96637	0.08692	1.9800E-05	3.2921	0.75
340.	12.53301	0.09079	2.0247E-05	3.3570	0.75
360.	12.12854	0.09469	2.0687E-05	3.4219	0.75
380.	11.75009	0.09863	2.1120E-05	3.4867	0.75
400.	11.39517	0.10260	2.1547E-05	3.5513	0.75
420.	11.06156	0.10660	2.1967E-05	3.6157	0.75
440.	10.74739	0.11064	2.2381E-05	3.6796	0.74
460.	10.45094	0.11471	2.2790E-05	3.7431	0.74
480.	10.17073	0.11881	2.3192E-05	3.8060	0.74
500.	9.90543	0.12293	2.3590E-05	3.8684	0.74
520.	9.65387	0.12709	2.3982E-05	3.9301	0.74
540.	9.41498	0.13127	2.4369E-05	3.9910	0.74
560.	9.18782	0.13548	2.4751E-05	4.0511	0.74
580.	8.97151	0.13971	2.5129E-05	4.1103	0.74
600.	8.76530	0.14397	2.5502E-05	4.1686	0.74
620.	8.56848	0.14825	2.5870E-05	4.2259	0.74
640.	8.38042	0.15255	2.6234E-05	4.2821	0.74
660.	8.20053	0.15688	2.6594E-05	4.3372	0.74
680.	8.02829	0.16123	2.6951E-05	4.3911	0.73
700.	7.86321	0.16560	2.7303E-05	4.4437	0.73
720.	7.70485	0.16999	2.7651E-05	4.4950	0.73
740.	7.55281	0.17440	2.7996E-05	4.5449	0.73
760.	7.40671	0.17883	2.8337E-05	4.5934	0.73
780.	7.26620	0.18328	2.8674E-05	4.6404	0.73
800.	7.13098	0.18774	2.9008E-05	4.6858	0.72
820.	7.00073	0.19223	2.9339E-05	4.7296	0.72
840.	6.87519	0.19674	2.9667E-05	4.7717	0.72
860.	6.75411	0.20126	2.9992E-05	4.8120	0.72
880.	6.63725	0.20580	3.0313E-05	4.8506	0.71
900.	6.52439	0.21035	3.0632E-05	4.8873	0.71
920.	6.41534	0.21493	3.0947E-05	4.9221	0.71
940.	6.30989	0.21952	3.1260E-05	4.9549	0.71
960.	6.20787	0.22412	3.1570E-05	4.9857	0.70
980.	6.10911	0.22874	3.1878E-05	5.0144	0.70
1000.	6.01347	0.23338	3.2182E-05	5.0410	0.70

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	35.60263	0.03272	1.1535E-05	2.4694	0.87
20.	32.27162	0.03554	1.2132E-05	2.4849	0.85
40.	29.61363	0.03847	1.2719E-05	2.5120	0.83
60.	27.42365	0.04150	1.3294E-05	2.5477	0.82
80.	25.57663	0.04462	1.3857E-05	2.5900	0.80
100.	23.99081	0.04782	1.4410E-05	2.6372	0.79
120.	22.60995	0.05110	1.4951E-05	2.6883	0.79
140.	21.39366	0.05444	1.5482E-05	2.7424	0.78
160.	20.31210	0.05785	1.6003E-05	2.7991	0.77
180.	19.34259	0.06133	1.6514E-05	2.8576	0.77
200.	18.46750	0.06486	1.7016E-05	2.9178	0.77
220.	17.67290	0.06844	1.7509E-05	2.9792	0.76
240.	16.94759	0.07208	1.7993E-05	3.0416	0.76
260.	16.28244	0.07577	1.8468E-05	3.1047	0.76
280.	15.66991	0.07950	1.8935E-05	3.1684	0.75
300.	15.10373	0.08327	1.9395E-05	3.2326	0.75
320.	14.57863	0.08709	1.9847E-05	3.2970	0.75
340.	14.09012	0.09094	2.0292E-05	3.3615	0.75
360.	13.63437	0.09484	2.0730E-05	3.4261	0.75
380.	13.20810	0.09877	2.1162E-05	3.4906	0.75
400.	12.80845	0.10274	2.1587E-05	3.5550	0.75
420.	12.43291	0.10674	2.2006E-05	3.6191	0.75
440.	12.07933	0.11077	2.2419E-05	3.6828	0.75
460.	11.74577	0.11484	2.2826E-05	3.7461	0.74
480.	11.43054	0.11893	2.3227E-05	3.8088	0.74
500.	11.13214	0.12305	2.3624E-05	3.8710	0.74
520.	10.84923	0.12720	2.4015E-05	3.9326	0.74
540.	10.58061	0.13138	2.4401E-05	3.9933	0.74
560.	10.32520	0.13559	2.4782E-05	4.0533	0.74
580.	10.08203	0.13982	2.5159E-05	4.1124	0.74
600.	9.85022	0.14407	2.5531E-05	4.1706	0.74
620.	9.62900	0.14835	2.5899E-05	4.2278	0.74
640.	9.41763	0.15265	2.6262E-05	4.2839	0.74
660.	9.21546	0.15697	2.6621E-05	4.3389	0.74
680.	9.02190	0.16132	2.6977E-05	4.3927	0.73
700.	8.83640	0.16569	2.7328E-05	4.4452	0.73
720.	8.65847	0.17008	2.7676E-05	4.4965	0.73
740.	8.48763	0.17448	2.8020E-05	4.5463	0.73
760.	8.32347	0.17891	2.8360E-05	4.5947	0.73
780.	8.16562	0.18336	2.8697E-05	4.6416	0.73
800.	8.01368	0.18783	2.9031E-05	4.6870	0.72
820.	7.86735	0.19231	2.9361E-05	4.7307	0.72
840.	7.72632	0.19681	2.9689E-05	4.7728	0.72
860.	7.59029	0.20133	3.0013E-05	4.8131	0.72
880.	7.45901	0.20587	3.0334E-05	4.8516	0.71
900.	7.33223	0.21043	3.0652E-05	4.8883	0.71
920.	7.20972	0.21500	3.0967E-05	4.9231	0.71
940.	7.09126	0.21958	3.1279E-05	4.9558	0.71
960.	6.97666	0.22419	3.1589E-05	4.9866	0.70
980.	6.86572	0.22881	3.1896E-05	5.0153	0.70
1000.	6.75829	0.23344	3.2201E-05	5.0418	0.70

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	40.06036	0.03311	1.1648E-05	2.5012	0.88
20.	36.18524	0.03590	1.2238E-05	2.5115	0.86
40.	33.12627	0.03881	1.2817E-05	2.5346	0.84
60.	30.62474	0.04181	1.3385E-05	2.5671	0.82
80.	28.52647	0.04491	1.3943E-05	2.6067	0.81
100.	26.73242	0.04810	1.4491E-05	2.6518	0.80
120.	25.17522	0.05136	1.5028E-05	2.7011	0.79
140.	23.80711	0.05469	1.5555E-05	2.7539	0.78
160.	22.59306	0.05809	1.6072E-05	2.8093	0.78
180.	21.50661	0.06155	1.6580E-05	2.8668	0.77
200.	20.52723	0.06507	1.7078E-05	2.9260	0.77
220.	19.63914	0.06865	1.7568E-05	2.9867	0.76
240.	18.82921	0.07227	1.8049E-05	3.0484	0.76
260.	18.08707	0.07595	1.8522E-05	3.1109	0.76
280.	17.40411	0.07967	1.8987E-05	3.1741	0.76
300.	16.77325	0.08344	1.9445E-05	3.2378	0.75
320.	16.18846	0.08725	1.9895E-05	3.3018	0.75
340.	15.64467	0.09110	2.0338E-05	3.3660	0.75
360.	15.13755	0.09499	2.0774E-05	3.4303	0.75
380.	14.66339	0.09892	2.1204E-05	3.4945	0.75
400.	14.21897	0.10288	2.1628E-05	3.5586	0.75
420.	13.80149	0.10687	2.2045E-05	3.6224	0.75
440.	13.40850	0.11090	2.2457E-05	3.6860	0.75
460.	13.03784	0.11496	2.2863E-05	3.7490	0.75
480.	12.68762	0.11905	2.3263E-05	3.8116	0.74
500.	12.35615	0.12317	2.3658E-05	3.8737	0.74
520.	12.04193	0.12732	2.4048E-05	3.9350	0.74
540.	11.74363	0.13149	2.4433E-05	3.9957	0.74
560.	11.46001	0.13570	2.4814E-05	4.0555	0.74
580.	11.19004	0.13992	2.5189E-05	4.1145	0.74
600.	10.93269	0.14417	2.5561E-05	4.1726	0.74
620.	10.68710	0.14845	2.5927E-05	4.2297	0.74
640.	10.45248	0.15275	2.6290E-05	4.2857	0.74
660.	10.22810	0.15707	2.6649E-05	4.3406	0.74
680.	10.01327	0.16141	2.7003E-05	4.3943	0.74
700.	9.80740	0.16578	2.7354E-05	4.4468	0.73
720.	9.60993	0.17016	2.7701E-05	4.4979	0.73
740.	9.42035	0.17457	2.8044E-05	4.5477	0.73
760.	9.23819	0.17900	2.8384E-05	4.5961	0.73
780.	9.06302	0.18344	2.8721E-05	4.6429	0.73
800.	8.89444	0.18791	2.9054E-05	4.6882	0.72
820.	8.73207	0.19239	2.9384E-05	4.7319	0.72
840.	8.57559	0.19689	2.9710E-05	4.7739	0.72
860.	8.42466	0.20141	3.0034E-05	4.8142	0.72
880.	8.27900	0.20595	3.0354E-05	4.8527	0.72
900.	8.13834	0.21050	3.0672E-05	4.8893	0.71
920.	8.00241	0.21507	3.0987E-05	4.9240	0.71
940.	7.87099	0.21965	3.1299E-05	4.9567	0.71
960.	7.74385	0.22426	3.1608E-05	4.9874	0.70
980.	7.62077	0.22887	3.1915E-05	5.0161	0.70
1000.	7.50157	0.23351	3.2219E-05	5.0426	0.70

****

* STOFFWERTE FUER H2O *

****

* H2O * P= 1. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	0.58968	0.02485	1.2035E-05	1.8824	0.91
120.	0.55730	0.02627	1.2860E-05	1.8954	0.93
140.	0.52915	0.02788	1.3683E-05	1.9084	0.94
160.	0.50394	0.02959	1.4506E-05	1.9214	0.94
180.	0.48113	0.03138	1.5328E-05	1.9344	0.95
200.	0.46035	0.03323	1.6149E-05	1.9475	0.95
220.	0.44134	0.03516	1.6969E-05	1.9605	0.95
240.	0.42387	0.03714	1.7789E-05	1.9735	0.95
260.	0.40776	0.03919	1.8609E-05	1.9865	0.94
280.	0.39284	0.04129	1.9428E-05	1.9995	0.94
300.	0.37900	0.04344	2.0247E-05	2.0125	0.94
320.	0.36610	0.04564	2.1067E-05	2.0255	0.94
340.	0.35407	0.04789	2.1890E-05	2.0386	0.93
360.	0.34281	0.05019	2.2704E-05	2.0516	0.93
380.	0.33225	0.05254	2.3518E-05	2.0646	0.92
400.	0.32232	0.05492	2.4331E-05	2.0776	0.92
420.	0.31298	0.05734	2.5145E-05	2.0906	0.92
440.	0.30416	0.05981	2.5959E-05	2.1036	0.91
460.	0.29583	0.06230	2.6772E-05	2.1166	0.91
480.	0.28795	0.06484	2.7586E-05	2.1297	0.91
500.	0.28047	0.06740	2.8400E-05	2.1427	0.90
520.	0.27338	0.06999	2.9214E-05	2.1557	0.90
540.	0.26664	0.07261	3.0027E-05	2.1687	0.90
560.	0.26022	0.07525	3.0841E-05	2.1817	0.89
580.	0.25411	0.07792	3.1655E-05	2.1947	0.89
600.	0.24828	0.08060	3.2469E-05	2.2077	0.89
620.	0.24271	0.08331	3.3283E-05	2.2208	0.89
640.	0.23738	0.08603	3.4096E-05	2.2338	0.89
660.	0.23229	0.08876	3.4910E-05	2.2468	0.88
680.	0.22741	0.09151	3.5724E-05	2.2598	0.88
700.	0.22273	0.09427	3.6538E-05	2.2728	0.88
720.	0.21824	0.09703	3.7352E-05	2.2858	0.88
740.	0.21392	0.09980	3.8166E-05	2.2988	0.88
760.	0.20978	0.10257	3.8979E-05	2.3118	0.88
780.	0.20579	0.10534	3.9793E-05	2.3249	0.88
800.	0.20195	0.10811	4.0607E-05	2.3379	0.88
820.	0.19825	0.11088	4.1421E-05	2.3509	0.88
840.	0.19469	0.11364	4.2235E-05	2.3639	0.88
860.	0.19125	0.11640	4.3049E-05	2.3769	0.88
880.	0.18793	0.11914	4.3863E-05	2.3899	0.88
900.	0.18473	0.12188	4.4677E-05	2.4029	0.88
920.	0.18163	0.12460	4.5490E-05	2.4160	0.88
940.	0.17863	0.12730	4.6304E-05	2.4290	0.88
960.	0.17573	0.12998	4.7118E-05	2.4420	0.89
980.	0.17293	0.13264	4.7932E-05	2.4550	0.89
1000.	0.17021	0.13528	4.8746E-05	2.4680	0.89

* H2O * P= 5. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	2.60523	0.03072	1.4314E-05	2.1422	1.00
180.	2.46966	0.03215	1.5169E-05	2.1013	0.99
200.	2.35231	0.03384	1.6021E-05	2.0751	0.98
220.	2.24755	0.03566	1.6868E-05	2.0593	0.97
240.	2.15281	0.03759	1.7713E-05	2.0508	0.97
260.	2.06646	0.03960	1.8555E-05	2.0475	0.96
280.	1.98729	0.04168	1.9395E-05	2.0481	0.95
300.	1.91437	0.04382	2.0233E-05	2.0516	0.95
320.	1.84691	0.04601	2.1129E-05	2.0572	0.94
340.	1.78429	0.04826	2.1941E-05	2.0643	0.94
360.	1.72596	0.05055	2.2753E-05	2.0727	0.93
380.	1.67148	0.05289	2.3565E-05	2.0821	0.93
400.	1.62046	0.05527	2.4377E-05	2.0921	0.92
420.	1.57256	0.05770	2.5190E-05	2.1027	0.92
440.	1.52749	0.06016	2.6002E-05	2.1138	0.91
460.	1.48501	0.06265	2.6815E-05	2.1252	0.91
480.	1.44487	0.06518	2.7627E-05	2.1430	0.91
500.	1.40690	0.06775	2.8440E-05	2.1551	0.90
520.	1.37091	0.07034	2.9252E-05	2.1672	0.90
540.	1.33675	0.07295	3.0065E-05	2.1795	0.90
560.	1.30427	0.07560	3.0878E-05	2.1918	0.90
580.	1.27337	0.07826	3.1691E-05	2.2042	0.89
600.	1.24391	0.08095	3.2504E-05	2.2166	0.89
620.	1.21580	0.08365	3.3317E-05	2.2291	0.89
640.	1.18895	0.08637	3.4130E-05	2.2416	0.89
660.	1.16327	0.08911	3.4943E-05	2.2542	0.88
680.	1.13868	0.09185	3.5756E-05	2.2668	0.88
700.	1.11513	0.09461	3.6569E-05	2.2794	0.88
720.	1.09254	0.09737	3.7383E-05	2.2921	0.88
740.	1.07085	0.10014	3.8196E-05	2.3047	0.88
760.	1.05001	0.10291	3.9009E-05	2.3175	0.88
780.	1.02997	0.10568	3.9822E-05	2.3302	0.88
800.	1.01069	0.10846	4.0636E-05	2.3429	0.88
820.	0.99212	0.11122	4.1449E-05	2.3557	0.88
840.	0.97423	0.11398	4.2262E-05	2.3685	0.88
860.	0.95697	0.11674	4.3076E-05	2.3813	0.88
880.	0.94032	0.11948	4.3889E-05	2.3941	0.88
900.	0.92423	0.12222	4.4703E-05	2.4069	0.88
920.	0.90870	0.12493	4.5516E-05	2.4198	0.88
940.	0.89367	0.12764	4.6330E-05	2.4326	0.88
960.	0.87914	0.13032	4.7143E-05	2.4455	0.88
980.	0.86507	0.13298	4.7957E-05	2.4583	0.89
1000.	0.85145	0.13562	4.8770E-05	2.4712	0.89

* H2O * P= 10. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	5.14176	0.03410	1.4957E-05	2.4094	1.06
200.	4.84916	0.03514	1.5851E-05	2.3109	1.04
220.	4.60657	0.03663	1.6736E-05	2.2418	1.02
240.	4.39466	0.03836	1.7614E-05	2.1935	1.01
260.	4.20546	0.04026	1.8486E-05	2.1602	0.99
280.	4.03448	0.04227	1.9353E-05	2.1379	0.98
300.	3.87870	0.04436	2.0216E-05	2.1237	0.97
320.	3.73585	0.04652	2.1197E-05	2.1155	0.96
340.	3.60418	0.04875	2.2006E-05	2.1119	0.95
360.	3.48229	0.05103	2.2816E-05	2.1118	0.94
380.	3.36900	0.05336	2.3626E-05	2.1143	0.94
400.	3.26337	0.05573	2.4436E-05	2.1189	0.93
420.	3.16456	0.05815	2.5246E-05	2.1251	0.92
440.	3.07190	0.06061	2.6057E-05	2.1326	0.92
460.	2.98479	0.06310	2.6868E-05	2.1411	0.91
480.	2.90270	0.06563	2.7679E-05	2.1596	0.91
500.	2.82520	0.06819	2.8490E-05	2.1706	0.91
520.	2.75189	0.07078	2.9302E-05	2.1817	0.90
540.	2.68242	0.07339	3.0113E-05	2.1930	0.90
560.	2.61648	0.07603	3.0925E-05	2.2044	0.90
580.	2.55380	0.07870	3.1737E-05	2.2160	0.89
600.	2.49413	0.08138	3.2548E-05	2.2277	0.89
620.	2.43725	0.08409	3.3360E-05	2.2395	0.89
640.	2.38297	0.08681	3.4172E-05	2.2514	0.89
660.	2.33111	0.08954	3.4985E-05	2.2634	0.88
680.	2.28150	0.09228	3.5797E-05	2.2755	0.88
700.	2.23399	0.09504	3.6609E-05	2.2876	0.88
720.	2.18846	0.09780	3.7422E-05	2.2999	0.88
740.	2.14477	0.10057	3.8234E-05	2.3121	0.88
760.	2.10282	0.10334	3.9046E-05	2.3245	0.88
780.	2.06249	0.10611	3.9859E-05	2.3368	0.88
800.	2.02371	0.10888	4.0672E-05	2.3493	0.88
820.	1.98637	0.11165	4.1484E-05	2.3617	0.88
840.	1.95040	0.11441	4.2297E-05	2.3742	0.88
860.	1.91573	0.11717	4.3110E-05	2.3867	0.88
880.	1.88227	0.11991	4.3923E-05	2.3993	0.88
900.	1.84998	0.12264	4.4735E-05	2.4119	0.88
920.	1.81878	0.12536	4.5548E-05	2.4245	0.88
940.	1.78863	0.12806	4.6361E-05	2.4372	0.88
960.	1.75947	0.13074	4.7174E-05	2.4498	0.88
980.	1.73125	0.13341	4.7987E-05	2.4625	0.89
1000.	1.70393	0.13604	4.8800E-05	2.4752	0.89

* H2O * P= 15. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	7.54366	0.03719	1.5669E-05	2.5902	1.09
220.	7.10205	0.03802	1.6596E-05	2.4579	1.07
240.	6.73895	0.03940	1.7510E-05	2.3625	1.05
260.	6.42482	0.04109	1.8414E-05	2.2937	1.03
280.	6.14642	0.04297	1.9309E-05	2.2442	1.01
300.	5.89613	0.04499	2.0198E-05	2.2091	0.99
320.	5.66893	0.04710	2.1266E-05	2.1847	0.99
340.	5.46115	0.04928	2.2073E-05	2.1683	0.97
360.	5.27001	0.05154	2.2880E-05	2.1581	0.96
380.	5.09331	0.05385	2.3688E-05	2.1525	0.95
400.	4.92927	0.05621	2.4496E-05	2.1507	0.94
420.	4.77642	0.05862	2.5304E-05	2.1517	0.93
440.	4.63353	0.06107	2.6113E-05	2.1549	0.92
460.	4.49958	0.06356	2.6922E-05	2.1599	0.91
480.	4.37368	0.06608	2.7732E-05	2.1763	0.91
500.	4.25506	0.06863	2.8541E-05	2.1861	0.91
520.	4.14306	0.07122	2.9351E-05	2.1961	0.91
540.	4.03710	0.07383	3.0162E-05	2.2064	0.90
560.	3.93668	0.07647	3.0972E-05	2.2170	0.90
580.	3.84135	0.07914	3.1783E-05	2.2278	0.89
600.	3.75071	0.08182	3.2593E-05	2.2388	0.89
620.	3.66441	0.08452	3.3404E-05	2.2499	0.89
640.	3.58212	0.08724	3.4215E-05	2.2612	0.89
660.	3.50355	0.08997	3.5026E-05	2.2727	0.88
680.	3.42846	0.09272	3.5838E-05	2.2842	0.88
700.	3.35661	0.09547	3.6649E-05	2.2959	0.88
720.	3.28778	0.09823	3.7461E-05	2.3077	0.88
740.	3.22177	0.10100	3.8272E-05	2.3195	0.88
760.	3.15843	0.10377	3.9084E-05	2.3315	0.88
780.	3.09757	0.10654	3.9896E-05	2.3435	0.88
800.	3.03906	0.10931	4.0708E-05	2.3556	0.88
820.	2.98276	0.11208	4.1520E-05	2.3677	0.88
840.	2.92854	0.11484	4.2332E-05	2.3799	0.88
860.	2.87628	0.11759	4.3144E-05	2.3922	0.88
880.	2.82588	0.12034	4.3956E-05	2.4045	0.88
900.	2.77724	0.12307	4.4769E-05	2.4169	0.88
920.	2.73027	0.12578	4.5581E-05	2.4293	0.88
940.	2.68488	0.12849	4.6393E-05	2.4417	0.88
960.	2.64099	0.13117	4.7206E-05	2.4542	0.88
980.	2.59852	0.13383	4.8018E-05	2.4667	0.89
1000.	2.55742	0.13647	4.8831E-05	2.4792	0.89

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	-	-	-	-	-
220.	9.77545	0.03995	1.6447E-05	2.6981	1.11
240.	9.20647	0.04075	1.7401E-05	2.5503	1.09
260.	8.73602	0.04212	1.8339E-05	2.4420	1.06
280.	8.32985	0.04381	1.9264E-05	2.3624	1.04
300.	7.97085	0.04570	2.0180E-05	2.3040	1.02
320.	7.64884	0.04773	2.1338E-05	2.2615	1.01
340.	7.35699	0.04987	2.2141E-05	2.2309	0.99
360.	7.09037	0.05208	2.2946E-05	2.2095	0.97
380.	6.84528	0.05437	2.3751E-05	2.1950	0.96
400.	6.61880	0.05671	2.4557E-05	2.1860	0.95
420.	6.40860	0.05910	2.5363E-05	2.1812	0.94
440.	6.21275	0.06154	2.6170E-05	2.1797	0.93
460.	6.02966	0.06402	2.6977E-05	2.1808	0.92
480.	5.85800	0.06654	2.7785E-05	2.1930	0.92
500.	5.69662	0.06909	2.8593E-05	2.2016	0.91
520.	5.54454	0.07167	2.9402E-05	2.2106	0.91
540.	5.40090	0.07428	3.0211E-05	2.2199	0.90
560.	5.26497	0.07692	3.1020E-05	2.2296	0.90
580.	5.13610	0.07958	3.1829E-05	2.2396	0.90
600.	5.01372	0.08226	3.2639E-05	2.2499	0.89
620.	4.89730	0.08496	3.3448E-05	2.2603	0.89
640.	4.78641	0.08768	3.4258E-05	2.2710	0.89
660.	4.68063	0.09041	3.5069E-05	2.2819	0.89
680.	4.57960	0.09315	3.5879E-05	2.2929	0.88
700.	4.48300	0.09591	3.6690E-05	2.3041	0.88
720.	4.39051	0.09867	3.7500E-05	2.3155	0.88
740.	4.30188	0.10143	3.8311E-05	2.3269	0.88
760.	4.21686	0.10420	3.9122E-05	2.3385	0.88
780.	4.13522	0.10697	3.9933E-05	2.3501	0.88
800.	4.05676	0.10974	4.0744E-05	2.3619	0.88
820.	3.98129	0.11251	4.1556E-05	2.3737	0.88
840.	3.90863	0.11527	4.2367E-05	2.3857	0.88
860.	3.83863	0.11802	4.3178E-05	2.3977	0.88
880.	3.77114	0.12076	4.3990E-05	2.4097	0.88
900.	3.70603	0.12349	4.4802E-05	2.4219	0.88
920.	3.64316	0.12621	4.5613E-05	2.4340	0.88
940.	3.58242	0.12891	4.6425E-05	2.4463	0.88
960.	3.52370	0.13159	4.7237E-05	2.4585	0.88
980.	3.46691	0.13425	4.8049E-05	2.4708	0.88
1000.	3.41193	0.13689	4.8861E-05	2.4832	0.89

P= 25. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	-	-	-	-	-
220.	12.69050	0.04256	1.6283E-05	2.9575	1.13
240.	11.82723	0.04248	1.7285E-05	2.7532	1.12
260.	11.15483	0.04337	1.8261E-05	2.6022	1.10
280.	10.59370	0.04479	1.9218E-05	2.4900	1.07
300.	10.10819	0.04651	2.0161E-05	2.4065	1.04
320.	9.67892	0.04844	2.1412E-05	2.3445	1.04
340.	9.29385	0.05050	2.2212E-05	2.2986	1.01
360.	8.94481	0.05267	2.3013E-05	2.2650	0.99
380.	8.62591	0.05492	2.3815E-05	2.2409	0.97
400.	8.33267	0.05723	2.4619E-05	2.2241	0.96
420.	8.06160	0.05961	2.5423E-05	2.2130	0.94
440.	7.80991	0.06203	2.6228E-05	2.2064	0.93
460.	7.57530	0.06450	2.7033E-05	2.2034	0.92
480.	7.35588	0.06701	2.7839E-05	2.2096	0.92
500.	7.15005	0.06955	2.8646E-05	2.2171	0.91
520.	6.95645	0.07213	2.9453E-05	2.2250	0.91
540.	6.77391	0.07474	3.0260E-05	2.2334	0.90
560.	6.60142	0.07737	3.1068E-05	2.2422	0.90
580.	6.43810	0.08003	3.1876E-05	2.2514	0.90
600.	6.28318	0.08271	3.2684E-05	2.2609	0.89
620.	6.13598	0.08540	3.3493E-05	2.2708	0.89
640.	5.99589	0.08812	3.4302E-05	2.2808	0.89
660.	5.86237	0.09085	3.5111E-05	2.2911	0.89
680.	5.73494	0.09359	3.5921E-05	2.3017	0.88
700.	5.61318	0.09634	3.6730E-05	2.3124	0.88
720.	5.49668	0.09910	3.7540E-05	2.3233	0.88
740.	5.38510	0.10187	3.8350E-05	2.3343	0.88
760.	5.27812	0.10464	3.9160E-05	2.3455	0.88
780.	5.17544	0.10740	3.9970E-05	2.3568	0.88
800.	5.07681	0.11017	4.0781E-05	2.3682	0.88
820.	4.98196	0.11294	4.1592E-05	2.3798	0.88
840.	4.89069	0.11570	4.2402E-05	2.3914	0.88
860.	4.80279	0.11845	4.3213E-05	2.4031	0.88
880.	4.71806	0.12119	4.4024E-05	2.4149	0.88
900.	4.63633	0.12392	4.4835E-05	2.4268	0.88
920.	4.55745	0.12664	4.5646E-05	2.4388	0.88
940.	4.48126	0.12934	4.6458E-05	2.4508	0.88
960.	4.40761	0.13202	4.7269E-05	2.4629	0.88
980.	4.33639	0.13468	4.8080E-05	2.4750	0.88
1000.	4.26748	0.13732	4.8892E-05	2.4872	0.89

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	-	-	-	-	-
220.	-	-	-	-	-
240.	14.64330	0.04466	1.7161E-05	2.9688	1.14
260.	13.70236	0.04489	1.8178E-05	2.7724	1.12
280.	12.94951	0.04593	1.9169E-05	2.6256	1.10
300.	12.31485	0.04743	2.0142E-05	2.5155	1.07
320.	11.76324	0.04921	2.1489E-05	2.4327	1.06
340.	11.27433	0.05118	2.2285E-05	2.3705	1.03
360.	10.83504	0.05329	2.3082E-05	2.3240	1.01
380.	10.43634	0.05549	2.3882E-05	2.2896	0.99
400.	10.07167	0.05778	2.4682E-05	2.2646	0.97
420.	9.73600	0.06013	2.5484E-05	2.2469	0.95
440.	9.42543	0.06254	2.6287E-05	2.2349	0.94
460.	9.13681	0.06499	2.7090E-05	2.2274	0.93
480.	8.86755	0.06749	2.7894E-05	2.2263	0.92
500.	8.61554	0.07003	2.8699E-05	2.2325	0.91
520.	8.37895	0.07260	2.9504E-05	2.2394	0.91
540.	8.15624	0.07520	3.0310E-05	2.2469	0.91
560.	7.94612	0.07783	3.1117E-05	2.2548	0.90
580.	7.74743	0.08048	3.1924E-05	2.2632	0.90
600.	7.55917	0.08316	3.2731E-05	2.2720	0.89
620.	7.38048	0.08585	3.3538E-05	2.2812	0.89
640.	7.21059	0.08856	3.4346E-05	2.2906	0.89
660.	7.04880	0.09129	3.5154E-05	2.3004	0.89
680.	6.89451	0.09403	3.5963E-05	2.3104	0.88
700.	6.74717	0.09678	3.6771E-05	2.3206	0.88
720.	6.60630	0.09954	3.7580E-05	2.3311	0.88
740.	6.47145	0.10230	3.8389E-05	2.3417	0.88
760.	6.34223	0.10507	3.9199E-05	2.3525	0.88
780.	6.21826	0.10784	4.0008E-05	2.3634	0.88
800.	6.09921	0.11061	4.0818E-05	2.3745	0.88
820.	5.98480	0.11337	4.1628E-05	2.3858	0.88
840.	5.87473	0.11613	4.2438E-05	2.3971	0.88
860.	5.76875	0.11888	4.3248E-05	2.4086	0.88
880.	5.66664	0.12162	4.4058E-05	2.4201	0.88
900.	5.56817	0.12435	4.4869E-05	2.4318	0.88
920.	5.47315	0.12706	4.5679E-05	2.4435	0.88
940.	5.38139	0.12976	4.6490E-05	2.4553	0.88
960.	5.29273	0.13244	4.7301E-05	2.4672	0.88
980.	5.20699	0.13510	4.8112E-05	2.4792	0.88
1000.	5.12405	0.13774	4.8923E-05	2.4912	0.88

P= 35. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	-	-	-	-	-
220.	-	-	-	-	-
240.	-	-	-	-	-
260.	16.40630	0.04672	1.8090E-05	2.9514	1.14
280.	15.41185	0.04726	1.9118E-05	2.7682	1.12
300.	14.59900	0.04847	2.0122E-05	2.6300	1.09
320.	13.90667	0.05007	2.1568E-05	2.5254	1.09
340.	13.30143	0.05193	2.2359E-05	2.4461	1.05
360.	12.76298	0.05395	2.3154E-05	2.3861	1.02
380.	12.27788	0.05610	2.3950E-05	2.3409	1.00
400.	11.83667	0.05835	2.4747E-05	2.3072	0.98
420.	11.43241	0.06067	2.5546E-05	2.2824	0.96
440.	11.05975	0.06306	2.6347E-05	2.2648	0.95
460.	10.71450	0.06550	2.7148E-05	2.2527	0.93
480.	10.39326	0.06798	2.7950E-05	2.2430	0.92
500.	10.09325	0.07051	2.8753E-05	2.2480	0.92
520.	9.81215	0.07307	2.9557E-05	2.2539	0.91
540.	9.54800	0.07566	3.0361E-05	2.2604	0.91
560.	9.29914	0.07829	3.1166E-05	2.2675	0.90
580.	9.06414	0.08094	3.1971E-05	2.2751	0.90
600.	8.84173	0.08361	3.2777E-05	2.2831	0.90
620.	8.63085	0.08630	3.3584E-05	2.2916	0.89
640.	8.43054	0.08901	3.4390E-05	2.3004	0.89
660.	8.23994	0.09174	3.5197E-05	2.3096	0.89
680.	8.05832	0.09447	3.6005E-05	2.3191	0.88
700.	7.88500	0.09722	3.6813E-05	2.3289	0.88
720.	7.71939	0.09998	3.7620E-05	2.3389	0.88
740.	7.56094	0.10274	3.8429E-05	2.3491	0.88
760.	7.40918	0.10551	3.9237E-05	2.3595	0.88
780.	7.26366	0.10827	4.0046E-05	2.3701	0.88
800.	7.12399	0.11104	4.0855E-05	2.3809	0.88
820.	6.98979	0.11380	4.1664E-05	2.3918	0.88
840.	6.86074	0.11656	4.2473E-05	2.4029	0.88
860.	6.73653	0.11931	4.3283E-05	2.4140	0.88
880.	6.61689	0.12205	4.4093E-05	2.4254	0.88
900.	6.50154	0.12478	4.4902E-05	2.4368	0.88
920.	6.39026	0.12749	4.5712E-05	2.4483	0.88
940.	6.28283	0.13019	4.6522E-05	2.4599	0.88
960.	6.17904	0.13287	4.7333E-05	2.4716	0.88
980.	6.07870	0.13553	4.8143E-05	2.4834	0.88
1000.	5.98164	0.13817	4.8954E-05	2.4952	0.88

* H2O * P= 40. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	-	-	-	-	-
220.	-	-	-	-	-
240.	-	-	-	-	-
260.	19.30292	0.04893	1.7997E-05	3.1382	1.15
280.	17.99896	0.04881	1.9065E-05	2.9171	1.14
300.	16.97066	0.04964	2.0101E-05	2.7496	1.11
320.	16.11499	0.05102	2.1150E-05	2.6222	1.11
340.	15.37868	0.05273	2.2437E-05	2.5250	1.07
360.	14.73085	0.05466	2.3227E-05	2.4509	1.04
380.	14.15196	0.05674	2.4019E-05	2.3944	1.01
400.	13.62868	0.05894	2.4814E-05	2.3516	0.99
420.	13.15152	0.06123	2.5610E-05	2.3196	0.97
440.	12.71338	0.06359	2.6408E-05	2.2960	0.95
460.	12.30875	0.06601	2.7207E-05	2.2790	0.94
480.	11.93326	0.06848	2.8007E-05	2.2596	0.92
500.	11.58340	0.07100	2.8808E-05	2.2635	0.92
520.	11.25624	0.07355	2.9610E-05	2.2683	0.91
540.	10.94932	0.07614	3.0413E-05	2.2739	0.91
560.	10.66059	0.07875	3.1216E-05	2.2801	0.90
580.	10.38831	0.08140	3.2020E-05	2.2869	0.90
600.	10.13094	0.08407	3.2825E-05	2.2942	0.90
620.	9.88714	0.08675	3.3630E-05	2.3020	0.89
640.	9.65578	0.08946	3.4435E-05	2.3103	0.89
660.	9.43583	0.09218	3.5241E-05	2.3189	0.89
680.	9.22640	0.09492	3.6047E-05	2.3278	0.88
700.	9.02668	0.09766	3.6854E-05	2.3371	0.88
720.	8.83595	0.10042	3.7661E-05	2.3467	0.88
740.	8.65359	0.10318	3.8469E-05	2.3565	0.88
760.	8.47901	0.10594	3.9276E-05	2.3665	0.88
780.	8.31168	0.10871	4.0084E-05	2.3768	0.88
800.	8.15114	0.11147	4.0892E-05	2.3872	0.88
820.	7.99696	0.11424	4.1701E-05	2.3978	0.88
840.	7.84874	0.11699	4.2509E-05	2.4086	0.88
860.	7.70613	0.11974	4.3318E-05	2.4195	0.88
880.	7.56880	0.12248	4.4127E-05	2.4306	0.88
900.	7.43645	0.12521	4.4936E-05	2.4417	0.88
920.	7.30879	0.12792	4.5746E-05	2.4530	0.88
940.	7.18557	0.13062	4.6555E-05	2.4644	0.88
960.	7.06655	0.13330	4.7365E-05	2.4759	0.88
980.	6.95152	0.13596	4.8175E-05	2.4875	0.88
1000.	6.84027	0.13859	4.8985E-05	2.4992	0.88

* H2C * P= 45. BAR

T GRAC-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	-	-	-	-	-
220.	-	-	-	-	-
240.	-	-	-	-	-
260.	22.43958	0.05161	1.7895E-05	3.3322	1.16
280.	20.73375	0.05061	1.9009E-05	3.0716	1.15
300.	19.44194	0.05097	2.0079E-05	2.8737	1.13
320.	18.39503	0.05207	2.1736E-05	2.7226	1.14
340.	17.51013	0.05360	2.2517E-05	2.6069	1.10
360.	16.74118	0.05541	2.3302E-05	2.5181	1.06
380.	16.06018	0.05742	2.4090E-05	2.4499	1.03
400.	15.44876	0.05956	2.4881E-05	2.3978	1.00
420.	14.89407	0.06181	2.5675E-05	2.3581	0.98
440.	14.38682	0.06414	2.6470E-05	2.3283	0.96
460.	13.91990	0.06654	2.7266E-05	2.3063	0.95
480.	13.48783	0.06899	2.8064E-05	2.2763	0.93
500.	13.08618	0.07149	2.8864E-05	2.2790	0.92
520.	12.71133	0.07404	2.9664E-05	2.2828	0.91
540.	12.36029	0.07661	3.0465E-05	2.2873	0.91
560.	12.03056	0.07922	3.1266E-05	2.2927	0.90
580.	11.72002	0.08186	3.2069E-05	2.2987	0.90
600.	11.42682	0.08453	3.2872E-05	2.3053	0.90
620.	11.14939	0.08721	3.3676E-05	2.3124	0.89
640.	10.88636	0.08991	3.4480E-05	2.3201	0.89
660.	10.63651	0.09263	3.5285E-05	2.3281	0.89
680.	10.39877	0.09537	3.6090E-05	2.3366	0.88
700.	10.17223	0.09811	3.6896E-05	2.3453	0.88
720.	9.95602	0.10086	3.7702E-05	2.3545	0.88
740.	9.74940	0.10362	3.8509E-05	2.3639	0.88
760.	9.55170	0.10638	3.9315E-05	2.3735	0.88
780.	9.36231	0.10915	4.0122E-05	2.3834	0.88
800.	9.18068	0.11191	4.0930E-05	2.3935	0.88
820.	9.00630	0.11467	4.1737E-05	2.4038	0.87
840.	8.83873	0.11743	4.2545E-05	2.4143	0.87
860.	8.67756	0.12018	4.3353E-05	2.4250	0.87
880.	8.52239	0.12291	4.4162E-05	2.4358	0.88
900.	8.37289	0.12564	4.4970E-05	2.4467	0.88
920.	8.22873	0.12835	4.5779E-05	2.4578	0.88
940.	8.08961	0.13105	4.6588E-05	2.4690	0.88
960.	7.95528	0.13373	4.7397E-05	2.4803	0.88
980.	7.82546	0.13638	4.8206E-05	2.4917	0.88
1000.	7.69993	0.13902	4.9016E-05	2.5032	0.88

* H2O * P= 50. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
100.	-	-	-	-	-
120.	-	-	-	-	-
140.	-	-	-	-	-
160.	-	-	-	-	-
180.	-	-	-	-	-
200.	-	-	-	-	-
220.	-	-	-	-	-
240.	-	-	-	-	-
260.	-	-	-	-	-
280.	23.64474	0.05271	1.8949E-05	3.2312	1.16
300.	22.02740	0.05246	2.0056E-05	3.0020	1.15
320.	20.75488	0.05322	2.1826E-05	2.8265	1.16
340.	19.70050	0.05454	2.2600E-05	2.6916	1.12
360.	18.79688	0.05622	2.3379E-05	2.5876	1.08
380.	18.00444	0.05813	2.4163E-05	2.5073	1.04
400.	17.29810	0.06021	2.4951E-05	2.4455	1.01
420.	16.66084	0.06241	2.5741E-05	2.3980	0.99
440.	16.08060	0.06471	2.6533E-05	2.3618	0.97
460.	15.54838	0.06708	2.7327E-05	2.3346	0.95
480.	15.05727	0.06951	2.8123E-05	2.2929	0.93
500.	14.60181	0.07200	2.8920E-05	2.2945	0.92
520.	14.17761	0.07453	2.9718E-05	2.2972	0.92
540.	13.78105	0.07710	3.0517E-05	2.3008	0.91
560.	13.40915	0.07970	3.1317E-05	2.3053	0.91
580.	13.05934	0.08233	3.2118E-05	2.3105	0.90
600.	12.72946	0.08499	3.2920E-05	2.3164	0.90
620.	12.41765	0.08767	3.3723E-05	2.3229	0.89
640.	12.12231	0.09037	3.4526E-05	2.3299	0.89
660.	11.84198	0.09309	3.5329E-05	2.3374	0.89
680.	11.57548	0.09582	3.6134E-05	2.3453	0.88
700.	11.32168	0.09856	3.6938E-05	2.3536	0.88
720.	11.07961	0.10131	3.7743E-05	2.3623	0.88
740.	10.84841	0.10406	3.8549E-05	2.3712	0.88
760.	10.62730	0.10682	3.9355E-05	2.3805	0.88
780.	10.41557	0.10959	4.0161E-05	2.3901	0.88
800.	10.21261	0.11235	4.0968E-05	2.3998	0.88
820.	10.01784	0.11511	4.1774E-05	2.4098	0.87
840.	9.83073	0.11786	4.2582E-05	2.4200	0.87
860.	9.65081	0.12061	4.3389E-05	2.4304	0.87
880.	9.47766	0.12335	4.4197E-05	2.4410	0.87
900.	9.31087	0.12607	4.5005E-05	2.4517	0.88
920.	9.15009	0.12878	4.5813E-05	2.4626	0.88
940.	8.99497	0.13148	4.6621E-05	2.4735	0.88
960.	8.84521	0.13416	4.7429E-05	2.4846	0.88
980.	8.70051	0.13681	4.8238E-05	2.4959	0.88
1000.	8.56063	0.13945	4.9047E-05	2.5072	0.88

****

* STOFFWERTE FUER N2 *

****

* N2 * P= 1. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	0.95376	0.02915	2.0155E-05	1.0418	0.72
100.	0.90264	0.03046	2.0979E-05	1.0432	0.72
120.	0.85673	0.03174	2.1781E-05	1.0449	0.72
140.	0.81525	0.03300	2.2562E-05	1.0468	0.72
160.	0.77761	0.03423	2.3323E-05	1.0491	0.71
180.	0.74329	0.03544	2.4066E-05	1.0515	0.71
200.	0.71187	0.03662	2.4791E-05	1.0543	0.71
220.	0.68300	0.03778	2.5501E-05	1.0572	0.71
240.	0.65638	0.03892	2.6195E-05	1.0604	0.71
260.	0.63176	0.04004	2.6874E-05	1.0638	0.71
280.	0.60891	0.04113	2.7540E-05	1.0674	0.71
300.	0.58767	0.04221	2.8193E-05	1.0711	0.72
320.	0.56785	0.04327	2.8833E-05	1.0750	0.72
340.	0.54933	0.04432	2.9462E-05	1.0791	0.72
360.	0.53198	0.04535	3.0080E-05	1.0833	0.72
380.	0.51569	0.04636	3.0687E-05	1.0876	0.72
400.	0.50037	0.04735	3.1284E-05	1.0920	0.72
420.	0.48593	0.04834	3.1872E-05	1.0966	0.72
440.	0.47230	0.04930	3.2450E-05	1.1012	0.72
460.	0.45942	0.05026	3.3020E-05	1.1059	0.73
480.	0.44722	0.05120	3.3580E-05	1.1106	0.73
500.	0.43565	0.05212	3.4133E-05	1.1154	0.73
520.	0.42467	0.05304	3.4678E-05	1.1202	0.73
540.	0.41422	0.05394	3.5216E-05	1.1251	0.73
560.	0.40428	0.05483	3.5746E-05	1.1300	0.74
580.	0.39480	0.05571	3.6269E-05	1.1348	0.74
600.	0.38576	0.05658	3.6786E-05	1.1396	0.74
620.	0.37712	0.05744	3.7296E-05	1.1445	0.74
640.	0.36886	0.05829	3.7800E-05	1.1492	0.75
660.	0.36096	0.05913	3.8297E-05	1.1539	0.75
680.	0.35339	0.05996	3.8789E-05	1.1585	0.75
700.	0.34612	0.06078	3.9276E-05	1.1631	0.75
720.	0.33915	0.06160	3.9757E-05	1.1675	0.75
740.	0.33246	0.06240	4.0232E-05	1.1719	0.76
760.	0.32602	0.06319	4.0702E-05	1.1761	0.76
780.	0.31983	0.06398	4.1168E-05	1.1802	0.76
800.	0.31387	0.06476	4.1629E-05	1.1841	0.76
820.	0.30813	0.06553	4.2084E-05	1.1879	0.76
840.	0.30259	0.06629	4.2536E-05	1.1915	0.76
860.	0.29725	0.06705	4.2983E-05	1.1949	0.77
880.	0.29210	0.06780	4.3425E-05	1.1981	0.77
900.	0.28712	0.06854	4.3864E-05	1.2011	0.77
920.	0.28231	0.06928	4.4298E-05	1.2039	0.77
940.	0.27765	0.07001	4.4729E-05	1.2064	0.77
960.	0.27315	0.07073	4.5155E-05	1.2087	0.77
980.	0.26879	0.07144	4.5578E-05	1.2107	0.77
1000.	0.26457	0.07215	4.5997E-05	1.2124	0.77

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	4.76164	C.C2930	2.0204E-05	1.0460	0.72
100.	4.50641	0.03061	2.1028E-05	1.0469	C.72
120.	4.27715	C.C3189	2.1829E-05	1.0481	0.72
140.	4.C7008	C.C3315	2.2609E-C5	1.0497	C.72
160.	3.88214	0.03438	2.3369E-C5	1.0517	C.71
180.	3.71078	C.C3558	2.4111E-C5	1.0539	0.71
200.	3.55391	0.03677	2.4836E-C5	1.0564	C.71
220.	3.40976	0.03792	2.5545E-05	1.0592	0.71
240.	3.27685	C.C39C6	2.6238E-C5	1.0622	C.71
260.	3.15390	C.C4C18	2.6917E-05	1.0654	0.71
280.	3.03985	C.C4127	2.7583E-C5	1.0688	0.71
300.	2.93374	C.C4235	2.8235E-05	1.0725	C.71
320.	2.83479	C.C4341	2.8875E-C5	1.0763	C.72
340.	2.74233	0.04446	2.9504E-C5	1.0802	C.72
360.	2.65574	C.C4548	3.0121E-05	1.0844	C.72
380.	2.57445	C.C4649	3.0728E-C5	1.0886	C.72
400.	2.49798	C.C4749	3.1324E-05	1.0930	0.72
420.	2.42592	C.C4847	3.1911E-C5	1.0974	0.72
440.	2.35790	0.04943	3.2489E-C5	1.1020	C.72
460.	2.29359	C.C5C3C	3.3058E-C5	1.1066	0.73
480.	2.23270	C.C5122	3.3619E-C5	1.1114	C.73
500.	2.17496	C.C5215	3.4171E-C5	1.1161	0.73
520.	2.12012	C.C5307	3.4716E-C5	1.1209	C.73
540.	2.C6795	C.C5397	3.5253E-05	1.1257	0.73
560.	2.C1836	C.C5486	3.5783E-C5	1.1305	C.74
580.	1.97105	0.05574	3.6306E-C5	1.1354	C.74
600.	1.92591	C.C5671	3.6822E-C5	1.1402	C.74
620.	1.88280	0.05757	3.7332E-C5	1.1450	0.74
640.	1.84157	C.C5841	3.7835E-05	1.1497	0.74
660.	1.80210	C.C5925	3.8333E-C5	1.1544	0.75
680.	1.76430	C.C6008	3.8824E-C5	1.1590	0.75
700.	1.72805	C.C6090	3.9310E-C5	1.1635	C.75
720.	1.69325	0.06171	3.9791E-05	1.1679	0.75
740.	1.65983	C.C6252	4.0266E-05	1.1723	0.76
760.	1.62771	C.C6331	4.0736E-C5	1.1765	C.76
780.	1.59680	C.C641C	4.1202E-05	1.1805	0.76
800.	1.56705	C.C6487	4.1662E-C5	1.1844	0.76
820.	1.53839	C.C6564	4.2118E-05	1.1882	0.76
840.	1.51075	C.C6641	4.2569E-05	1.1918	0.76
860.	1.48409	0.06716	4.3015E-C5	1.1952	C.77
880.	1.45836	C.C6791	4.3458E-05	1.1984	0.77
900.	1.43350	C.C6865	4.3896E-05	1.2014	0.77
920.	1.40948	C.C6939	4.4330E-05	1.2041	0.77
940.	1.38624	C.C7012	4.4760E-C5	1.2066	0.77
960.	1.36377	C.C7084	4.5187E-05	1.2089	0.77
980.	1.34200	C.C7155	4.5609E-C5	1.2109	0.77
1000.	1.32093	0.07226	4.6028E-C5	1.2126	0.77

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	9.50533	0.02950	2.0266E-05	1.0513	0.72
100.	8.99580	0.03081	2.1088E-05	1.0515	0.72
120.	8.53810	0.03209	2.1888E-05	1.0523	0.72
140.	8.12471	0.03334	2.2668E-05	1.0534	0.72
160.	7.74949	0.03457	2.3427E-05	1.0549	0.71
180.	7.40739	0.03577	2.4169E-05	1.0568	0.71
200.	7.09421	0.03695	2.4893E-05	1.0591	0.71
220.	6.80642	0.03811	2.5601E-05	1.0616	0.71
240.	6.54106	0.03924	2.6293E-05	1.0644	0.71
260.	6.29560	0.04036	2.6972E-05	1.0674	0.71
280.	6.06787	0.04145	2.7636E-05	1.0707	0.71
300.	5.85602	0.04253	2.8288E-05	1.0742	0.71
320.	5.65842	0.04359	2.8928E-05	1.0778	0.72
340.	5.47391	0.04463	2.9555E-05	1.0817	0.72
360.	5.30113	0.04565	3.0172E-05	1.0857	0.72
380.	5.13890	0.04666	3.0778E-05	1.0899	0.72
400.	4.98630	0.04765	3.1375E-05	1.0942	0.72
420.	4.84249	0.04863	3.1961E-05	1.0985	0.72
440.	4.70675	0.04960	3.2538E-05	1.1030	0.72
460.	4.57841	0.05055	3.3107E-05	1.1076	0.73
480.	4.45688	0.05149	3.3667E-05	1.1123	0.73
500.	4.34164	0.05241	3.4219E-05	1.1170	0.73
520.	4.23221	0.05332	3.4763E-05	1.1217	0.73
540.	4.12815	0.05423	3.5300E-05	1.1265	0.73
560.	4.02910	0.05511	3.5829E-05	1.1313	0.74
580.	3.93468	0.05599	3.6352E-05	1.1361	0.74
600.	3.84459	0.05686	3.6867E-05	1.1408	0.74
620.	3.75853	0.05772	3.7377E-05	1.1456	0.74
640.	3.67625	0.05857	3.7880E-05	1.1503	0.74
660.	3.59748	0.05940	3.8377E-05	1.1549	0.75
680.	3.52203	0.06023	3.8868E-05	1.1595	0.75
700.	3.44967	0.06105	3.9354E-05	1.1640	0.75
720.	3.38023	0.06186	3.9834E-05	1.1684	0.75
740.	3.31353	0.06266	4.0309E-05	1.1727	0.75
760.	3.24941	0.06346	4.0779E-05	1.1769	0.76
780.	3.18772	0.06424	4.1244E-05	1.1810	0.76
800.	3.12834	0.06502	4.1704E-05	1.1849	0.76
820.	3.07113	0.06579	4.2159E-05	1.1886	0.76
840.	3.01597	0.06655	4.2610E-05	1.1922	0.76
860.	2.96276	0.06730	4.3056E-05	1.1956	0.76
880.	2.91139	0.06805	4.3498E-05	1.1987	0.77
900.	2.86178	0.06879	4.3936E-05	1.2017	0.77
920.	2.81383	0.06953	4.4370E-05	1.2044	0.77
940.	2.76746	0.07025	4.4800E-05	1.2070	0.77
960.	2.72259	0.07097	4.5226E-05	1.2092	0.77
980.	2.67915	0.07169	4.5648E-05	1.2112	0.77
1000.	2.63708	0.07240	4.6067E-05	1.2129	0.77

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	14.23106	C.02969	2.0327E-05	1.0566	C.72
100.	13.46814	C.03100	2.1149E-05	1.0562	0.72
120.	12.78283	C.03228	2.1948E-05	1.0564	C.72
140.	12.16386	C.03353	2.2727E-05	1.0571	0.72
160.	11.60205	C.03475	2.3485E-05	1.0582	0.72
180.	11.08981	0.03596	2.4226E-05	1.0598	C.71
200.	10.62087	C.03713	2.4949E-05	1.0617	0.71
220.	10.18995	0.03829	2.5657E-05	1.0640	C.71
240.	9.79261	C.03942	2.6348E-05	1.0666	0.71
260.	9.42507	C.04053	2.7026E-05	1.0694	C.71
280.	9.08407	0.04163	2.7690E-05	1.0725	0.71
300.	8.76683	C.04270	2.8341E-05	1.0759	C.71
320.	8.47089	0.04376	2.8980E-05	1.0794	0.71
340.	8.19471	C.04480	2.9607E-05	1.0832	0.72
360.	7.93614	C.04582	3.0223E-05	1.0871	C.72
380.	7.69335	C.04683	3.0829E-05	1.0911	C.72
400.	7.46495	C.04782	3.1425E-05	1.0953	C.72
420.	7.24971	C.04880	3.2011E-05	1.0997	0.72
440.	7.04654	C.04976	3.2587E-05	1.1041	0.72
460.	6.85444	0.05071	3.3155E-05	1.1086	C.72
480.	6.67253	0.05165	3.3715E-05	1.1132	0.73
500.	6.50003	0.05257	3.4266E-05	1.1178	C.73
520.	6.33623	C.05348	3.4810E-05	1.1225	0.73
540.	6.18048	C.05438	3.5346E-05	1.1273	C.73
560.	6.03221	0.05527	3.5875E-05	1.1320	C.73
580.	5.89088	C.05615	3.6397E-05	1.1368	0.74
600.	5.75602	0.05702	3.6913E-05	1.1415	C.74
620.	5.62721	C.05787	3.7422E-05	1.1462	0.74
640.	5.50403	C.05872	3.7924E-05	1.1509	C.74
660.	5.38613	C.05955	3.8421E-05	1.1555	C.75
680.	5.27318	C.06038	3.8912E-05	1.1601	C.75
700.	5.16487	C.06120	3.9397E-05	1.1645	0.75
720.	5.06092	C.06201	3.9877E-05	1.1689	C.75
740.	4.96107	0.06281	4.0352E-05	1.1732	C.75
760.	4.86509	C.06360	4.0821E-05	1.1774	0.76
780.	4.77275	C.06439	4.1286E-05	1.1814	C.76
800.	4.68386	0.06516	4.1746E-05	1.1853	0.76
820.	4.59821	0.06593	4.2201E-05	1.1890	C.76
840.	4.51564	0.06669	4.2651E-05	1.1926	0.76
860.	4.43599	C.06744	4.3097E-05	1.1959	0.76
880.	4.35910	C.06819	4.3539E-05	1.1991	C.77
900.	4.28482	C.06893	4.3977E-05	1.2020	0.77
920.	4.21304	C.06966	4.4410E-05	1.2048	C.77
940.	4.14363	C.07039	4.4840E-05	1.2073	0.77
960.	4.07646	C.07111	4.5266E-05	1.2095	C.77
980.	4.01144	0.07182	4.5688E-05	1.2115	C.77
1000.	3.94846	C.07253	4.6106E-05	1.2132	C.77

* N2 * P= 20. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	18.93886	0.02989	2.0389E-05	1.0619	0.72
100.	17.92346	0.03119	2.1210E-05	1.0608	0.72
120.	17.01137	0.03247	2.2008E-05	1.0605	0.72
140.	16.18756	0.03372	2.2786E-05	1.0607	0.72
160.	15.43983	0.03494	2.3544E-05	1.0615	0.72
180.	14.75808	0.03614	2.4283E-05	1.0627	0.71
200.	14.13394	0.03732	2.5006E-05	1.0644	0.71
220.	13.56041	0.03847	2.5712E-05	1.0664	0.71
240.	13.03155	0.03960	2.6404E-05	1.0688	0.71
260.	12.54234	0.04071	2.7080E-05	1.0714	0.71
280.	12.08847	0.04180	2.7744E-05	1.0744	0.71
300.	11.66619	0.04288	2.8394E-05	1.0776	0.71
320.	11.27222	0.04393	2.9032E-05	1.0810	0.71
340.	10.90477	0.04497	2.9659E-05	1.0846	0.72
360.	10.56081	0.04599	3.0275E-05	1.0884	0.72
380.	10.23781	0.04700	3.0880E-05	1.0924	0.72
400.	9.93395	0.04799	3.1475E-05	1.0965	0.72
420.	9.64760	0.04896	3.2060E-05	1.1008	0.72
440.	9.37728	0.04993	3.2636E-05	1.1051	0.72
460.	9.12170	0.05087	3.3204E-05	1.1096	0.72
480.	8.87968	0.05181	3.3763E-05	1.1141	0.73
500.	8.65017	0.05273	3.4314E-05	1.1187	0.73
520.	8.43222	0.05364	3.4857E-05	1.1234	0.73
540.	8.22499	0.05454	3.5393E-05	1.1280	0.73
560.	8.02771	0.05543	3.5922E-05	1.1327	0.73
580.	7.83966	0.05630	3.6443E-05	1.1375	0.74
600.	7.66023	0.05717	3.6958E-05	1.1422	0.74
620.	7.48883	0.05802	3.7467E-05	1.1468	0.74
640.	7.32494	0.05887	3.7969E-05	1.1515	0.74
660.	7.16806	0.05970	3.8465E-05	1.1561	0.74
680.	7.01777	0.06053	3.8956E-05	1.1606	0.75
700.	6.87365	0.06135	3.9441E-05	1.1651	0.75
720.	6.73534	0.06216	3.9920E-05	1.1694	0.75
740.	6.60248	0.06296	4.0395E-05	1.1737	0.75
760.	6.47477	0.06375	4.0864E-05	1.1778	0.76
780.	6.35190	0.06453	4.1328E-05	1.1818	0.76
800.	6.23362	0.06530	4.1787E-05	1.1857	0.76
820.	6.11966	0.06607	4.2242E-05	1.1894	0.76
840.	6.00979	0.06683	4.2692E-05	1.1929	0.76
860.	5.90380	0.06758	4.3138E-05	1.1963	0.76
880.	5.80148	0.06833	4.3580E-05	1.1994	0.76
900.	5.70266	0.06907	4.4017E-05	1.2024	0.77
920.	5.60714	0.06980	4.4450E-05	1.2051	0.77
940.	5.51478	0.07053	4.4880E-05	1.2076	0.77
960.	5.42540	0.07125	4.5305E-05	1.2098	0.77
980.	5.33888	0.07196	4.5727E-05	1.2118	0.77
1000.	5.25508	0.07267	4.6145E-05	1.2135	0.77

* N2 * P= 25. PAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	23.62871	C.03009	2.0450E-05	1.0672	0.73
100.	22.36176	0.03139	2.1270E-05	1.0655	0.72
120.	21.22371	C.03266	2.2068E-05	1.0646	0.72
140.	20.19580	C.03391	2.2844E-05	1.0644	0.72
160.	19.26282	0.03513	2.3602E-05	1.0648	0.72
180.	18.41216	C.03633	2.4341E-05	1.0657	0.71
200.	17.63338	0.03750	2.5062E-05	1.0670	C.71
220.	16.91772	C.03865	2.5768E-05	1.0688	0.71
240.	16.25783	C.03978	2.6459E-05	1.0710	C.71
260.	15.64740	C.04089	2.7135E-05	1.0735	0.71
280.	15.08104	C.04198	2.7797E-05	1.0762	0.71
300.	14.55408	C.04305	2.8447E-05	1.0793	C.71
320.	14.06239	C.04411	2.9085E-05	1.0826	0.71
340.	13.60405	0.04514	2.9711E-05	1.0861	C.71
360.	13.17512	C.04616	3.0326E-05	1.0898	0.72
380.	12.77228	C.04717	3.0930E-05	1.0937	C.72
400.	12.39329	C.04816	3.1525E-05	1.0977	0.72
420.	12.03613	C.04913	3.2110E-05	1.1019	0.72
440.	11.69897	0.05009	3.2686E-05	1.1062	0.72
460.	11.38018	C.05104	3.3253E-05	1.1105	0.72
480.	11.07830	C.05197	3.3811E-05	1.1150	C.73
500.	10.79202	C.05289	3.4362E-05	1.1196	0.73
520.	10.52016	0.05380	3.4904E-05	1.1242	C.73
540.	10.26167	C.05470	3.5440E-05	1.1288	0.73
560.	10.01558	C.05558	3.5968E-05	1.1335	C.73
580.	9.78102	0.05646	3.6489E-05	1.1381	C.74
600.	9.55720	C.05732	3.7004E-05	1.1428	C.74
620.	9.34340	0.05818	3.7512E-05	1.1475	C.74
640.	9.13895	C.05902	3.8014E-05	1.1521	0.74
660.	8.94327	C.05986	3.8510E-05	1.1566	C.74
680.	8.75579	0.06068	3.9000E-05	1.1612	0.75
700.	8.57602	0.06150	3.9484E-05	1.1656	C.75
720.	8.40348	0.06230	3.9964E-05	1.1699	0.75
740.	8.23775	C.06310	4.0437E-05	1.1742	0.75
760.	8.07843	C.06389	4.0906E-05	1.1783	C.75
780.	7.92517	C.06467	4.1370E-05	1.1823	0.76
800.	7.77761	C.06545	4.1829E-05	1.1861	C.76
820.	7.63545	C.06621	4.2284E-05	1.1898	0.76
840.	7.49840	C.06697	4.2733E-05	1.1933	C.76
860.	7.36618	0.06773	4.3179E-05	1.1967	C.76
880.	7.23854	C.06847	4.3620E-05	1.1998	0.76
900.	7.11526	0.06921	4.4057E-05	1.2027	C.77
920.	6.99611	C.06994	4.4490E-05	1.2054	0.77
940.	6.88089	C.07066	4.4919E-05	1.2079	0.77
960.	6.76940	0.07138	4.5345E-05	1.2101	0.77
980.	6.66146	C.07209	4.5766E-05	1.2121	0.77
1000.	6.55692	0.07280	4.6184E-05	1.2138	C.77

* N2 * P= 30. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	28.30061	0.03028	2.0512E-05	1.0725	0.73
100.	26.78304	0.03158	2.1331E-05	1.0702	0.72
120.	25.41985	0.03285	2.2127E-05	1.0687	0.72
140.	24.18860	0.03410	2.2903E-05	1.0680	0.72
160.	23.07101	0.03532	2.3660E-05	1.0680	0.72
180.	22.05206	0.03651	2.4398E-05	1.0686	0.71
200.	21.11920	0.03768	2.5119E-05	1.0697	0.71
220.	20.26196	0.03883	2.5824E-05	1.0712	0.71
240.	19.47148	0.03996	2.6514E-05	1.0732	0.71
260.	18.74025	0.04107	2.7189E-05	1.0755	0.71
280.	18.06178	0.04216	2.7851E-05	1.0781	0.71
300.	17.43050	0.04323	2.8500E-05	1.0810	0.71
320.	16.84138	0.04428	2.9137E-05	1.0842	0.71
340.	16.29256	0.04531	2.9763E-05	1.0875	0.71
360.	15.77906	0.04633	3.0377E-05	1.0911	0.72
380.	15.29675	0.04734	3.0981E-05	1.0949	0.72
400.	14.84297	0.04832	3.1575E-05	1.0989	0.72
420.	14.41532	0.04930	3.2159E-05	1.1030	0.72
440.	14.01160	0.05025	3.2735E-05	1.1072	0.72
460.	13.62987	0.05120	3.3301E-05	1.1115	0.72
480.	13.26839	0.05213	3.3859E-05	1.1159	0.72
500.	12.92559	0.05305	3.4409E-05	1.1204	0.73
520.	12.60006	0.05396	3.4952E-05	1.1250	0.73
540.	12.29052	0.05486	3.5486E-05	1.1296	0.73
560.	11.99584	0.05574	3.6014E-05	1.1342	0.73
580.	11.71495	0.05661	3.6535E-05	1.1388	0.73
600.	11.44693	0.05748	3.7049E-05	1.1435	0.74
620.	11.19090	0.05833	3.7557E-05	1.1481	0.74
640.	10.94608	0.05917	3.8058E-05	1.1527	0.74
660.	10.71175	0.06001	3.8554E-05	1.1572	0.74
680.	10.48724	0.06083	3.9044E-05	1.1617	0.75
700.	10.27196	0.06164	3.9528E-05	1.1661	0.75
720.	10.06534	0.06245	4.0007E-05	1.1704	0.75
740.	9.86687	0.06325	4.0480E-05	1.1746	0.75
760.	9.67609	0.06404	4.0949E-05	1.1787	0.75
780.	9.49254	0.06482	4.1412E-05	1.1827	0.76
800.	9.31584	0.06559	4.1871E-05	1.1865	0.76
820.	9.14560	0.06636	4.2325E-05	1.1902	0.76
840.	8.98147	0.06712	4.2775E-05	1.1937	0.76
860.	8.82313	0.06787	4.3220E-05	1.1970	0.76
880.	8.67028	0.06861	4.3661E-05	1.2002	0.76
900.	8.52264	0.06935	4.4098E-05	1.2031	0.77
920.	8.37995	0.07008	4.4530E-05	1.2058	0.77
940.	8.24196	0.07080	4.4959E-05	1.2082	0.77
960.	8.10845	0.07152	4.5384E-05	1.2104	0.77
980.	7.97919	0.07223	4.5805E-05	1.2124	0.77
1000.	7.85400	0.07293	4.6223E-05	1.2140	0.77

* N2 * P= 35. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	32.95454	0.03048	2.0573E-05	1.0778	0.73
100.	31.18727	0.03178	2.1391E-05	1.0748	0.72
120.	29.59978	0.03305	2.2187E-05	1.0728	0.72
140.	28.16592	0.03429	2.2962E-05	1.0717	0.72
160.	26.86444	0.03551	2.3718E-05	1.0713	0.72
180.	25.67780	0.03670	2.4455E-05	1.0716	0.71
200.	24.59142	0.03787	2.5175E-05	1.0724	0.71
220.	23.59308	0.03902	2.5880E-05	1.0737	0.71
240.	22.67249	0.04014	2.6569E-05	1.0754	0.71
260.	21.82088	0.04125	2.7243E-05	1.0775	0.71
280.	21.03070	0.04233	2.7905E-05	1.0799	0.71
300.	20.29546	0.04340	2.8553E-05	1.0827	0.71
320.	19.60925	0.04445	2.9190E-05	1.0857	0.71
340.	18.97034	0.04549	2.9815E-05	1.0890	0.71
360.	18.37263	0.04650	3.0428E-05	1.0925	0.71
380.	17.81120	0.04750	3.1032E-05	1.0962	0.72
400.	17.28299	0.04849	3.1625E-05	1.1001	0.72
420.	16.78516	0.04946	3.2209E-05	1.1041	0.72
440.	16.31517	0.05042	3.2784E-05	1.1082	0.72
460.	15.87079	0.05136	3.3350E-05	1.1125	0.72
480.	15.44997	0.05229	3.3907E-05	1.1169	0.72
500.	15.05089	0.05321	3.4457E-05	1.1213	0.73
520.	14.67191	0.05412	3.4999E-05	1.1258	0.73
540.	14.31155	0.05501	3.5533E-05	1.1304	0.73
560.	13.96847	0.05590	3.6060E-05	1.1349	0.73
580.	13.64147	0.05677	3.6581E-05	1.1395	0.73
600.	13.32942	0.05763	3.7094E-05	1.1441	0.74
620.	13.03135	0.05848	3.7602E-05	1.1487	0.74
640.	12.74632	0.05932	3.8103E-05	1.1533	0.74
660.	12.47350	0.06016	3.8598E-05	1.1578	0.74
680.	12.21212	0.06098	3.9088E-05	1.1622	0.74
700.	11.96148	0.06179	3.9571E-05	1.1666	0.75
720.	11.72092	0.06260	4.0050E-05	1.1709	0.75
740.	11.48985	0.06339	4.0523E-05	1.1751	0.75
760.	11.26773	0.06418	4.0991E-05	1.1792	0.75
780.	11.05404	0.06496	4.1454E-05	1.1831	0.75
800.	10.84830	0.06573	4.1913E-05	1.1870	0.76
820.	10.65009	0.06650	4.2367E-05	1.1906	0.76
840.	10.45900	0.06726	4.2816E-05	1.1941	0.76
860.	10.27465	0.06801	4.3261E-05	1.1974	0.76
880.	10.09669	0.06875	4.3701E-05	1.2005	0.76
900.	9.92480	0.06949	4.4138E-05	1.2034	0.76
920.	9.75866	0.07022	4.4570E-05	1.2061	0.77
940.	9.59800	0.07094	4.4999E-05	1.2085	0.77
960.	9.44255	0.07165	4.5424E-05	1.2107	0.77
980.	9.29206	0.07237	4.5845E-05	1.2127	0.77
1000.	9.14630	0.07307	4.6262E-05	1.2143	0.77

* N2 * P= 40. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	37.59058	0.03067	2.0635E-05	1.0831	0.73
100.	35.57451	0.03197	2.1452E-05	1.0795	0.72
120.	33.76350	0.03324	2.2247E-05	1.0769	0.72
140.	32.12781	0.03448	2.3021E-05	1.0753	0.72
160.	30.64308	0.03569	2.3776E-05	1.0746	0.72
180.	29.28937	0.03688	2.4512E-05	1.0745	0.71
200.	28.05002	0.03805	2.5232E-05	1.0750	0.71
220.	26.91110	0.03920	2.5935E-05	1.0761	0.71
240.	25.86087	0.04032	2.6624E-05	1.0776	0.71
260.	24.88931	0.04143	2.7298E-05	1.0795	0.71
280.	23.98782	0.04251	2.7958E-05	1.0818	0.71
300.	23.14896	0.04358	2.8606E-05	1.0844	0.71
320.	22.36597	0.04463	2.9242E-05	1.0873	0.71
340.	21.63733	0.04566	2.9866E-05	1.0905	0.71
360.	20.95586	0.04667	3.0480E-05	1.0939	0.71
380.	20.31569	0.04767	3.1082E-05	1.0975	0.72
400.	19.71335	0.04866	3.1675E-05	1.1012	0.72
420.	19.14565	0.04963	3.2259E-05	1.1052	0.72
440.	18.60970	0.05058	3.2833E-05	1.1093	0.72
460.	18.10292	0.05153	3.3398E-05	1.1135	0.72
480.	17.62302	0.05246	3.3955E-05	1.1178	0.72
500.	17.16789	0.05337	3.4504E-05	1.1222	0.73
520.	16.73570	0.05428	3.5046E-05	1.1266	0.73
540.	16.32474	0.05517	3.5580E-05	1.1311	0.73
560.	15.93348	0.05605	3.6107E-05	1.1357	0.73
580.	15.56056	0.05692	3.6627E-05	1.1402	0.73
600.	15.20469	0.05779	3.7140E-05	1.1448	0.74
620.	14.86474	0.05864	3.7647E-05	1.1494	0.74
640.	14.53968	0.05948	3.8148E-05	1.1539	0.74
660.	14.22853	0.06031	3.8642E-05	1.1584	0.74
680.	13.93043	0.06113	3.9131E-05	1.1628	0.74
700.	13.64458	0.06194	3.9615E-05	1.1671	0.75
720.	13.37023	0.06275	4.0093E-05	1.1714	0.75
740.	13.10670	0.06354	4.0566E-05	1.1756	0.75
760.	12.85336	0.06433	4.1034E-05	1.1796	0.75
780.	12.60965	0.06511	4.1497E-05	1.1836	0.75
800.	12.37501	0.06588	4.1955E-05	1.1874	0.76
820.	12.14895	0.06664	4.2408E-05	1.1910	0.76
840.	11.93100	0.06740	4.2857E-05	1.1945	0.76
860.	11.72075	0.06815	4.3302E-05	1.1978	0.76
880.	11.51779	0.06889	4.3742E-05	1.2009	0.76
900.	11.32174	0.06962	4.4178E-05	1.2038	0.76
920.	11.13226	0.07035	4.4610E-05	1.2064	0.76
940.	10.94902	0.07108	4.5039E-05	1.2089	0.77
960.	10.77172	0.07179	4.5463E-05	1.2110	0.77
980.	10.60008	0.07250	4.5884E-05	1.2130	0.77
1000.	10.43383	0.07320	4.6301E-05	1.2146	0.77

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	42.20865	0.03087	2.0696E-05	1.0884	0.73
100.	39.94470	0.03216	2.1513E-05	1.0841	0.73
120.	37.91104	0.03343	2.2307E-05	1.0810	0.72
140.	36.07422	0.03467	2.3088E-05	1.0790	0.72
160.	34.40694	0.03588	2.3834E-05	1.0778	0.72
180.	32.88676	0.03707	2.4570E-05	1.0774	0.71
200.	31.49501	0.03824	2.5288E-05	1.0777	0.71
220.	30.21602	0.03938	2.5991E-05	1.0785	0.71
240.	29.03662	0.04050	2.6679E-05	1.0798	0.71
260.	27.94553	0.04161	2.7352E-05	1.0815	0.71
280.	26.93312	0.04269	2.8012E-05	1.0836	0.71
300.	25.99101	0.04375	2.8659E-05	1.0861	0.71
320.	25.11153	0.04480	2.9295E-05	1.0889	0.71
340.	24.29358	0.04583	2.9918E-05	1.0919	0.71
360.	23.52875	0.04684	3.0531E-05	1.0952	0.71
380.	22.81018	0.04784	3.1133E-05	1.0987	0.71
400.	22.13406	0.04882	3.1725E-05	1.1024	0.72
420.	21.49680	0.04979	3.2308E-05	1.1063	0.72
440.	20.89517	0.05075	3.2882E-05	1.1103	0.72
460.	20.32629	0.05169	3.3447E-05	1.1144	0.72
480.	19.78755	0.05262	3.4003E-05	1.1187	0.72
500.	19.27664	0.05353	3.4552E-05	1.1230	0.72
520.	18.79146	0.05444	3.5093E-05	1.1274	0.73
540.	18.33011	0.05533	3.5626E-05	1.1319	0.73
560.	17.89087	0.05621	3.6153E-05	1.1364	0.73
580.	17.47221	0.05708	3.6672E-05	1.1409	0.73
600.	17.07271	0.05794	3.7185E-05	1.1455	0.74
620.	16.69106	0.05879	3.7692E-05	1.1500	0.74
640.	16.32613	0.05963	3.8192E-05	1.1545	0.74
660.	15.97684	0.06046	3.8687E-05	1.1589	0.74
680.	15.64218	0.06128	3.9175E-05	1.1633	0.74
700.	15.32126	0.06209	3.9658E-05	1.1677	0.75
720.	15.01325	0.06289	4.0136E-05	1.1719	0.75
740.	14.71740	0.06369	4.0609E-05	1.1761	0.75
760.	14.43299	0.06447	4.1076E-05	1.1801	0.75
780.	14.15937	0.06525	4.1539E-05	1.1840	0.75
800.	13.89595	0.06602	4.1997E-05	1.1878	0.76
820.	13.64215	0.06678	4.2450E-05	1.1914	0.76
840.	13.39747	0.06754	4.2898E-05	1.1949	0.76
860.	13.16142	0.06829	4.3343E-05	1.1981	0.76
880.	12.93355	0.06903	4.3783E-05	1.2012	0.76
900.	12.71345	0.06976	4.4219E-05	1.2041	0.76
920.	12.50072	0.07049	4.4650E-05	1.2068	0.76
940.	12.29500	0.07121	4.5078E-05	1.2092	0.77
960.	12.09594	0.07193	4.5503E-05	1.2113	0.77
980.	11.90324	0.07264	4.5923E-05	1.2133	0.77
1000.	11.71659	0.07334	4.6340E-05	1.2149	0.77

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	46.80875	0.03107	2.0758E-05	1.0937	0.73
100.	44.29787	0.03236	2.1573E-05	1.0888	0.73
120.	42.04237	0.03362	2.2366E-05	1.0851	0.72
140.	40.00516	0.03486	2.3139E-05	1.0827	0.72
160.	38.15599	0.03607	2.3892E-05	1.0811	0.72
180.	36.46997	0.03726	2.4627E-05	1.0804	0.71
200.	34.92635	0.03842	2.5345E-05	1.0803	0.71
220.	33.50781	0.03956	2.6047E-05	1.0809	0.71
240.	32.19972	0.04068	2.6734E-05	1.0820	0.71
260.	30.98953	0.04178	2.7407E-05	1.0835	0.71
280.	29.86659	0.04287	2.8066E-05	1.0855	0.71
300.	28.82158	0.04393	2.8712E-05	1.0878	0.71
320.	27.84593	0.04497	2.9347E-05	1.0905	0.71
340.	26.93906	0.04600	2.9970E-05	1.0934	0.71
360.	26.09125	0.04701	3.0582E-05	1.0966	0.71
380.	25.29466	0.04801	3.1184E-05	1.1000	0.71
400.	24.54509	0.04899	3.1775E-05	1.1036	0.72
420.	23.83861	0.04996	3.2358E-05	1.1074	0.72
440.	23.17159	0.05091	3.2931E-05	1.1113	0.72
460.	22.54086	0.05185	3.3495E-05	1.1154	0.72
480.	21.94356	0.05278	3.4051E-05	1.1196	0.72
500.	21.37711	0.05369	3.4600E-05	1.1239	0.72
520.	20.83916	0.05460	3.5140E-05	1.1283	0.73
540.	20.32765	0.05549	3.5673E-05	1.1327	0.73
560.	19.84065	0.05637	3.6199E-05	1.1371	0.73
580.	19.37645	0.05723	3.6718E-05	1.1416	0.73
600.	18.93349	0.05809	3.7231E-05	1.1461	0.73
620.	18.51033	0.05894	3.7737E-05	1.1506	0.74
640.	18.10570	0.05978	3.8237E-05	1.1551	0.74
660.	17.71840	0.06061	3.8731E-05	1.1595	0.74
680.	17.34734	0.06143	3.9219E-05	1.1639	0.74
700.	16.99150	0.06224	3.9702E-05	1.1682	0.75
720.	16.64998	0.06304	4.0179E-05	1.1724	0.75
740.	16.32193	0.06383	4.0652E-05	1.1765	0.75
760.	16.00658	0.06462	4.1119E-05	1.1806	0.75
780.	15.70320	0.06540	4.1581E-05	1.1845	0.75
800.	15.41111	0.06617	4.2038E-05	1.1882	0.75
820.	15.12970	0.06693	4.2491E-05	1.1918	0.76
840.	14.85839	0.06768	4.2940E-05	1.1953	0.76
860.	14.59666	0.06843	4.3383E-05	1.1985	0.76
880.	14.34399	0.06917	4.3823E-05	1.2016	0.76
900.	14.09993	0.06990	4.4259E-05	1.2044	0.76
920.	13.86405	0.07063	4.4690E-05	1.2071	0.76
940.	13.63594	0.07135	4.5118E-05	1.2095	0.76
960.	13.41522	0.07206	4.5542E-05	1.2117	0.77
980.	13.20154	0.07277	4.5962E-05	1.2136	0.77
1000.	12.99457	0.07347	4.6379E-05	1.2152	0.77

```
**********************
* STOFFWERTE FLER CO *
**********************
```

* CO * P= 1. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	1.23427	C.C2186	1.6378E-05	1.0403	0.78
20.	1.14978	C.C2339	1.7333E-05	1.0409	C.77
40.	1.07615	0.02490	1.8258E-05	1.0418	C.76
60.	1.01140	C.02637	1.9155E-05	1.0430	0.76
80.	0.95402	0.02782	2.0026E-05	1.0446	0.75
100.	0.90281	C.02925	2.0874E-05	1.0465	0.75
120.	0.85683	C.03064	2.1699E-05	1.0488	0.74
140.	0.81531	0.03202	2.2502E-05	1.0513	C.74
160.	0.77763	0.03337	2.3286E-05	1.0542	C.74
180.	0.74328	0.03469	2.4052E-05	1.0573	C.73
200.	0.71185	C.03600	2.4800E-05	1.0606	C.73
220.	0.68296	0.03729	2.5531E-05	1.0642	C.73
240.	0.65623	C.03855	2.6248E-05	1.0680	0.73
260.	0.63170	C.03980	2.6949E-05	1.0721	C.73
280.	0.60886	0.04103	2.7636E-05	1.0763	0.72
300.	0.58761	C.04225	2.8311E-05	1.0807	0.72
320.	0.56779	0.04345	2.8972E-05	1.0853	0.72
340.	0.54927	C.04463	2.9622E-05	1.0900	0.72
360.	0.53191	C.04580	3.0260E-05	1.0949	C.72
380.	0.51563	C.04695	3.0888E-05	1.0998	C.72
400.	0.50031	C.04809	3.1505E-05	1.1049	C.72
420.	0.48587	C.04922	3.2112E-05	1.1101	0.72
440.	0.47224	C.05033	3.2710E-05	1.1154	0.72
460.	0.45936	0.05143	3.3299E-05	1.1207	0.73
480.	0.44716	0.05252	3.3878E-05	1.1261	0.73
500.	0.43560	0.05360	3.4450E-05	1.1315	C.73
520.	0.42461	C.05467	3.5013E-05	1.1369	0.73
540.	C.41417	C.05573	3.5569E-05	1.1423	C.73
560.	0.40423	0.05677	3.6117E-05	1.1477	0.73
580.	C.39475	C.05781	3.6658E-05	1.1531	0.73
600.	0.38571	0.05884	3.7193E-05	1.1584	0.73
620.	0.37708	C.05986	3.7720E-05	1.1637	0.73
640.	0.36882	C.06087	3.8241E-05	1.1689	0.73
660.	C.36092	C.06187	3.8756E-05	1.1740	0.74
680.	0.35334	C.06287	3.9264E-05	1.1790	0.74
700.	0.34608	C.06385	3.9767E-05	1.1839	0.74
720.	0.33911	C.06483	4.0264E-05	1.1887	0.74
740.	0.33242	0.06580	4.0756E-05	1.1933	C.74
760.	0.32599	C.06677	4.1243E-05	1.1978	0.74
780.	0.31980	C.06772	4.1724E-05	1.2021	C.74
800.	0.31384	C.06867	4.2200E-05	1.2061	0.74
820.	0.30810	C.06962	4.2671E-05	1.2100	0.74
840.	0.30256	C.07056	4.3138E-05	1.2137	0.74
860.	C.29722	C.07149	4.3600E-05	1.2171	0.74
880.	0.29207	C.07241	4.4058E-05	1.2203	0.74
900.	0.28709	C.07333	4.4511E-05	1.2232	0.74
920.	0.28228	C.07425	4.4960E-05	1.2258	C.74
940.	0.27763	C.07516	4.5405E-05	1.2281	C.74
960.	C.27312	C.07606	4.5846E-05	1.2301	0.74
980.	0.26877	0.07696	4.6283E-05	1.2318	C.74
1000.	0.26454	C.07785	4.6716E-05	1.2332	C.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	6.19102	0.02194	1.6475E-05	1.0497	0.79
20.	5.76163	C.C2347	1.7423E-05	1.0489	0.78
40.	5.38870	C.C2497	1.8343E-05	1.0487	0.77
60.	5.06164	C.C2644	1.9235E-05	1.0491	0.76
80.	4.77238	C.C2788	2.0101E-05	1.0499	0.76
100.	4.51466	C.C2930	2.0944E-05	1.0512	0.75
120.	4.28356	C.03069	2.1765E-05	1.0530	0.75
140.	4.07512	0.03206	2.2565E-05	1.0551	0.74
160.	3.88614	C.C3341	2.3346E-05	1.0576	0.74
180.	3.71400	C.C3473	2.4109E-05	1.0603	0.74
200.	3.55653	C.C3604	2.4854E-05	1.0634	0.73
220.	3.41193	0.03732	2.5583E-05	1.0668	0.73
240.	3.27867	0.03859	2.6297E-05	1.0704	0.73
260.	3.15546	C.C3982	2.6996E-05	1.0742	0.73
280.	3.04121	C.04106	2.7682E-05	1.0783	0.73
300.	2.93497	C.C4228	2.8354E-05	1.0826	0.73
320.	2.83592	0.04347	2.9014E-05	1.0870	0.73
340.	2.74335	C.C4465	2.9663E-05	1.0916	0.73
360.	2.65665	0.04582	3.0299E-05	1.0964	0.72
380.	2.57527	0.04697	3.0926E-05	1.1013	0.73
400.	2.49874	C.04811	3.1541E-05	1.1063	0.73
420.	2.42663	0.04924	3.2147E-05	1.1114	0.73
440.	2.35858	C.05035	3.2744E-05	1.1166	0.73
460.	2.29424	C.05145	3.3331E-05	1.1218	0.73
480.	2.23333	0.05254	3.3910E-05	1.1271	0.73
500.	2.17557	C.05362	3.4481E-05	1.1325	0.73
520.	2.12073	0.05469	3.5043E-05	1.1378	0.73
540.	2.06859	C.05574	3.5598E-05	1.1432	0.73
560.	2.01895	C.05679	3.6146E-05	1.1486	0.73
580.	1.97164	C.05783	3.6686E-05	1.1539	0.73
600.	1.92650	C.05885	3.7219E-05	1.1592	0.73
620.	1.88339	C.05987	3.7746E-05	1.1644	0.73
640.	1.84216	C.06088	3.8266E-05	1.1696	0.74
660.	1.80270	0.06189	3.8780E-05	1.1747	0.74
680.	1.76490	C.06288	3.9288E-05	1.1797	0.74
700.	1.72865	0.06387	3.9791E-05	1.1846	0.74
720.	1.69386	0.06484	4.0287E-05	1.1893	0.74
740.	1.66045	C.06581	4.0779E-05	1.1939	0.74
760.	1.62833	0.06678	4.1264E-05	1.1983	0.74
780.	1.59742	C.06774	4.1745E-05	1.2026	0.74
800.	1.56767	0.06869	4.2221E-05	1.2067	0.74
820.	1.53901	C.06963	4.2692E-05	1.2105	0.74
840.	1.51138	C.07057	4.3158E-05	1.2142	0.74
860.	1.48473	C.07150	4.3620E-05	1.2176	0.74
880.	1.45899	C.07242	4.4077E-05	1.2207	0.74
900.	1.43414	C.07334	4.4530E-05	1.2236	0.74
920.	1.41012	C.07426	4.4978E-05	1.2262	0.74
940.	1.38689	0.07517	4.5423E-05	1.2285	0.74
960.	1.36441	C.07607	4.5864E-05	1.2305	0.74
980.	1.34265	C.07697	4.6300E-05	1.2322	0.74
1000.	1.32158	C.07786	4.6733E-05	1.2335	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	12.42972	0.02211	1.6587E-05	1.0605	0.80
20.	11.55371	0.02362	1.7527E-05	1.0580	0.78
40.	10.79609	0.02511	1.8440E-05	1.0566	0.78
60.	10.13383	0.02657	1.9325E-05	1.0560	0.77
80.	9.54962	0.02800	2.0187E-05	1.0560	0.76
100.	9.03018	0.02941	2.1025E-05	1.0566	0.76
120.	8.56515	0.03080	2.1841E-05	1.0578	0.75
140.	8.14626	0.03216	2.2638E-05	1.0594	0.75
160.	7.76689	0.03350	2.3415E-05	1.0614	0.74
180.	7.42164	0.03482	2.4174E-05	1.0639	0.74
200.	7.10606	0.03612	2.4916E-05	1.0666	0.74
220.	6.81644	0.03740	2.5643E-05	1.0697	0.73
240.	6.54968	0.03866	2.6354E-05	1.0731	0.73
260.	6.30315	0.03990	2.7051E-05	1.0767	0.73
280.	6.07462	0.04113	2.7734E-05	1.0806	0.73
300.	5.86218	0.04234	2.8404E-05	1.0847	0.73
320.	5.66417	0.04353	2.9063E-05	1.0890	0.73
340.	5.47916	0.04471	2.9709E-05	1.0935	0.73
360.	5.30591	0.04587	3.0344E-05	1.0981	0.73
380.	5.14333	0.04702	3.0969E-05	1.1029	0.73
400.	4.99046	0.04816	3.1583E-05	1.1078	0.73
420.	4.84643	0.04928	3.2188E-05	1.1128	0.73
440.	4.71052	0.05039	3.2783E-05	1.1179	0.73
460.	4.58205	0.05149	3.3369E-05	1.1231	0.73
480.	4.46042	0.05258	3.3947E-05	1.1283	0.73
500.	4.34509	0.05366	3.4516E-05	1.1336	0.73
520.	4.23559	0.05472	3.5078E-05	1.1389	0.73
540.	4.13149	0.05578	3.5632E-05	1.1442	0.73
560.	4.03240	0.05682	3.6178E-05	1.1496	0.73
580.	3.93796	0.05786	3.6717E-05	1.1548	0.73
600.	3.84785	0.05889	3.7250E-05	1.1601	0.73
620.	3.76178	0.05990	3.7776E-05	1.1653	0.73
640.	3.67948	0.06091	3.8295E-05	1.1704	0.74
660.	3.60071	0.06191	3.8809E-05	1.1755	0.74
680.	3.52525	0.06291	3.9316E-05	1.1804	0.74
700.	3.45289	0.06389	3.9818E-05	1.1853	0.74
720.	3.38345	0.06487	4.0314E-05	1.1900	0.74
740.	3.31675	0.06584	4.0804E-05	1.1946	0.74
760.	3.25263	0.06680	4.1289E-05	1.1990	0.74
780.	3.19095	0.06776	4.1770E-05	1.2032	0.74
800.	3.13157	0.06871	4.2245E-05	1.2072	0.74
820.	3.07435	0.06965	4.2715E-05	1.2111	0.74
840.	3.01920	0.07059	4.3181E-05	1.2147	0.74
860.	2.96599	0.07152	4.3642E-05	1.2181	0.74
880.	2.91462	0.07244	4.4099E-05	1.2212	0.74
900.	2.86501	0.07336	4.4551E-05	1.2241	0.74
920.	2.81705	0.07428	4.4999E-05	1.2267	0.74
940.	2.77068	0.07518	4.5443E-05	1.2290	0.74
960.	2.72581	0.07609	4.5884E-05	1.2310	0.74
980.	2.68237	0.07699	4.6320E-05	1.2326	0.74
1000.	2.64030	0.07788	4.6752E-05	1.2339	0.74

P= 15. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	18.71339	C.02233	1.6695E-05	1.0706	C.80
20.	17.37387	C.02382	1.7628E-05	1.0669	C.79
40.	16.22020	C.02529	1.8533E-05	1.0642	0.78
60.	15.21497	C.02673	1.9413E-05	1.0626	C.77
80.	14.33041	C.02816	2.0269E-05	1.0619	C.76
100.	13.54549	C.02955	2.1103E-05	1.0618	C.76
120.	12.84388	0.03093	2.1915E-05	1.0624	C.75
140.	12.21271	C.03228	2.2707E-05	1.0636	0.75
160.	11.64168	C.03361	2.3481E-05	1.0652	C.74
180.	11.12246	C.03493	2.4237E-05	1.0673	C.74
200.	10.64821	C.03622	2.4976E-05	1.0697	C.74
220.	10.21322	C.03749	2.5700E-05	1.0725	C.74
240.	9.81277	C.03875	2.6409E-05	1.0757	C.73
260.	9.44284	0.03999	2.7103E-05	1.0791	C.73
280.	9.10005	C.04121	2.7784E-05	1.0828	0.73
300.	8.78148	0.04241	2.8453E-05	1.0868	C.73
320.	8.48464	C.04360	2.9109E-05	1.0909	0.73
340.	8.20734	C.04478	2.9754E-05	1.0953	C.73
360.	7.94772	0.04594	3.0387E-05	1.0998	C.73
380.	7.70412	C.04709	3.1010E-05	1.1045	0.73
400.	7.47509	0.04822	3.1623E-05	1.1093	C.73
420.	7.25936	C.04934	3.2226E-05	1.1142	0.73
440.	7.05578	C.05045	3.2820E-05	1.1192	C.73
460.	6.86338	C.05155	3.3405E-05	1.1243	C.73
480.	6.68122	C.05263	3.3982E-05	1.1295	C.73
500.	6.50853	C.05370	3.4550E-05	1.1347	0.73
520.	6.34457	C.05477	3.5111E-05	1.1400	0.73
540.	6.18870	0.05582	3.5664E-05	1.1452	C.73
560.	6.04033	C.05687	3.6209E-05	1.1505	0.73
580.	5.89893	C.05790	3.6748E-05	1.1557	C.73
600.	5.76402	C.05893	3.7279E-05	1.1610	0.73
620.	5.63516	C.05994	3.7804E-05	1.1661	C.74
640.	5.51195	0.06095	3.8323E-05	1.1712	C.74
660.	5.39402	C.06195	3.8836E-05	1.1762	0.74
680.	5.28106	C.06294	3.9343E-05	1.1812	C.74
700.	5.17273	C.06393	3.9843E-05	1.1860	0.74
720.	5.06877	C.06490	4.0339E-05	1.1907	C.74
740.	4.96891	C.06587	4.0829E-05	1.1952	C.74
760.	4.87292	C.06683	4.1313E-05	1.1996	C.74
780.	4.78058	0.06779	4.1793E-05	1.2038	C.74
800.	4.69167	C.06874	4.2268E-05	1.2078	C.74
820.	4.60602	0.06968	4.2738E-05	1.2116	C.74
840.	4.52345	C.07062	4.3203E-05	1.2152	0.74
860.	4.44378	C.07155	4.3663E-05	1.2186	C.74
880.	4.36689	0.07247	4.4120E-05	1.2217	0.74
900.	4.29260	C.07339	4.4572E-05	1.2246	C.74
920.	4.22081	0.07430	4.5020E-05	1.2271	0.74
940.	4.15138	C.07521	4.5463E-05	1.2294	0.74
960.	4.08421	C.07611	4.5903E-05	1.2314	C.74
980.	4.01917	C.07701	4.6339E-05	1.2330	C.74
1000.	3.95618	C.07790	4.6771E-05	1.2343	C.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	25.03908	0.02259	1.6800E-05	1.0809	0.80
20.	23.21965	0.02405	1.7726E-05	1.0756	0.79
40.	21.65901	0.02550	1.8625E-05	1.0717	0.78
60.	20.30339	0.02693	1.9499E-05	1.0691	0.77
80.	19.11340	0.02833	2.0350E-05	1.0676	0.77
100.	18.05948	0.02972	2.1179E-05	1.0669	0.76
120.	17.11885	0.03108	2.1987E-05	1.0669	0.75
140.	16.27373	0.03242	2.2776E-05	1.0676	0.75
160.	15.50991	0.03375	2.3546E-05	1.0689	0.75
180.	14.81599	0.03505	2.4299E-05	1.0706	0.74
200.	14.18256	0.03634	2.5035E-05	1.0728	0.74
220.	13.60192	0.03760	2.5756E-05	1.0753	0.74
240.	13.06764	0.03885	2.6462E-05	1.0782	0.73
260.	12.57429	0.04008	2.7155E-05	1.0815	0.73
280.	12.11729	0.04130	2.7834E-05	1.0850	0.73
300.	11.69270	0.04250	2.8500E-05	1.0888	0.73
320.	11.29716	0.04369	2.9155E-05	1.0928	0.73
340.	10.92776	0.04486	2.9797E-05	1.0970	0.73
360.	10.58195	0.04601	3.0429E-05	1.1014	0.73
380.	10.25754	0.04716	3.1051E-05	1.1060	0.73
400.	9.95257	0.04829	3.1662E-05	1.1107	0.73
420.	9.66533	0.04941	3.2264E-05	1.1156	0.73
440.	9.39432	0.05051	3.2857E-05	1.1205	0.73
460.	9.13819	0.05161	3.3441E-05	1.1255	0.73
480.	8.89572	0.05269	3.4016E-05	1.1306	0.73
500.	8.66586	0.05376	3.4584E-05	1.1358	0.73
520.	8.44765	0.05482	3.5143E-05	1.1410	0.73
540.	8.24019	0.05587	3.5695E-05	1.1462	0.73
560.	8.04274	0.05692	3.6240E-05	1.1514	0.73
580.	7.85455	0.05795	3.6777E-05	1.1566	0.73
600.	7.67501	0.05897	3.7308E-05	1.1618	0.74
620.	7.50353	0.05999	3.7833E-05	1.1669	0.74
640.	7.33957	0.06099	3.8351E-05	1.1720	0.74
660.	7.18264	0.06199	3.8863E-05	1.1770	0.74
680.	7.03231	0.06298	3.9369E-05	1.1819	0.74
700.	6.88816	0.06396	3.9869E-05	1.1866	0.74
720.	6.74981	0.06494	4.0364E-05	1.1913	0.74
740.	6.61693	0.06591	4.0853E-05	1.1958	0.74
760.	6.48920	0.06687	4.1337E-05	1.2002	0.74
780.	6.36631	0.06782	4.1816E-05	1.2044	0.74
800.	6.24800	0.06877	4.2290E-05	1.2084	0.74
820.	6.13402	0.06971	4.2760E-05	1.2122	0.74
840.	6.02413	0.07065	4.3224E-05	1.2157	0.74
860.	5.91812	0.07158	4.3685E-05	1.2191	0.74
880.	5.81578	0.07250	4.4140E-05	1.2222	0.74
900.	5.71693	0.07342	4.4592E-05	1.2250	0.74
920.	5.62139	0.07433	4.5039E-05	1.2276	0.74
940.	5.52900	0.07524	4.5483E-05	1.2298	0.74
960.	5.43959	0.07614	4.5922E-05	1.2318	0.74
980.	5.35305	0.07703	4.6358E-05	1.2334	0.74
1000.	5.26921	0.07793	4.6789E-05	1.2347	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	31.40372	C.C2287	1.6904E-05	1.0909	C.81
20.	29.08849	C.C2431	1.7822E-05	1.0841	0.79
40.	27.11043	C.C2573	1.8715E-05	1.0791	C.78
60.	25.39743	C.C2714	1.9584E-05	1.0756	C.78
80.	23.89728	C.C2853	2.0430E-05	1.0732	C.77
100.	22.57109	C.C2990	2.1254E-05	1.0719	C.76
120.	21.38924	C.C3125	2.2058E-05	1.0714	C.76
140.	20.32866	0.03258	2.2843E-05	1.0716	C.75
160.	19.37103	C.C3389	2.3610E-05	1.0725	0.75
180.	18.50171	C.C3519	2.4359E-05	1.0739	C.74
200.	17.70674	C.C3647	2.5093E-05	1.0757	0.74
220.	16.98224	C.C3772	2.5811E-05	1.0781	C.74
240.	16.31406	0.03897	2.6515E-05	1.0807	C.74
260.	15.69732	C.C4019	2.7205E-05	1.0838	C.73
280.	15.12618	C.C414C	2.7882E-05	1.0871	C.73
300.	14.59571	C.C426C	2.8547E-05	1.0908	0.73
320.	14.10165	C.C4378	2.9199E-05	1.0946	C.73
340.	13.64033	C.C4495	2.9841E-05	1.0987	C.73
360.	13.20854	C.C461C	3.0471E-05	1.1030	C.73
380.	12.80353	0.04724	3.1091E-05	1.1075	C.73
400.	12.42283	C.C4836	3.1701E-05	1.1121	C.73
420.	12.06433	0.04948	3.2302E-05	1.1169	C.73
440.	11.72609	C.C5058	3.2893E-05	1.1218	0.73
460.	11.40645	C.C5167	3.3476E-05	1.1267	C.73
480.	11.10389	0.05275	3.4050E-05	1.1318	C.73
500.	10.81707	C.C5382	3.4617E-05	1.1369	C.73
520.	10.54479	0.05488	3.5175E-05	1.1420	C.73
540.	10.28595	C.C5593	3.5726E-05	1.1472	0.73
560.	10.03959	C.C5697	3.6270E-05	1.1523	C.73
580.	9.80481	C.C5800	3.6807E-05	1.1575	C.73
600.	9.58082	C.C5902	3.7337E-05	1.1626	C.74
620.	9.36687	C.C6004	3.7860E-05	1.1677	0.74
640.	9.16232	C.C6104	3.8378E-05	1.1728	C.74
660.	8.96655	0.06204	3.8889E-05	1.1777	C.74
680.	8.77900	C.C6303	3.9394E-05	1.1826	0.74
700.	8.59916	0.06401	3.9894E-05	1.1873	C.74
720.	8.42658	C.C6498	4.0388E-05	1.1919	0.74
740.	8.26081	C.C6595	4.0877E-05	1.1964	C.74
760.	8.10145	0.06691	4.1360E-05	1.2008	0.74
780.	7.94814	C.C6786	4.1839E-05	1.2049	0.74
800.	7.80055	0.06881	4.2312E-05	1.2089	C.74
820.	7.65835	C.C6975	4.2781E-05	1.2127	0.74
840.	7.52125	C.C7068	4.3246E-05	1.2162	C.74
860.	7.38901	C.C7161	4.3705E-05	1.2196	C.74
880.	7.26133	C.C7253	4.4161E-05	1.2227	C.74
900.	7.13800	C.C7345	4.4612E-05	1.2255	C.74
920.	7.01880	C.C7436	4.5059E-05	1.2280	C.74
940.	6.90353	0.07527	4.5502E-05	1.2303	C.74
960.	6.79198	C.C7617	4.5941E-05	1.2322	0.74
980.	6.68400	C.C7706	4.6376E-05	1.2338	C.74
1000.	6.57940	C.C7795	4.6807E-05	1.2351	0.74

T GRAD-C	RHC KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	37.80388	C.C2317	1.7CC6E-C5	1.1CC7	C.81
2C.	34.97763	0.C2459	1.7918E-05	1.C925	C.80
4C.	32.57233	C.C2599	1.88C4E-05	1.0863	C.79
6C.	30.49539	0.02738	1.9667E-05	1.0819	C.78
8C.	28.68C65	C.C2875	2.C5C8E-C5	1.0788	0.77
1CC.	27.C7924	0.03010	2.1328E-05	1.C768	C.76
12C.	25.65417	C.C3144	2.2128E-05	1.0758	0.76
14C.	24.37675	C.C3275	2.29C9E-C5	1.0756	C.75
16C.	23.22444	0.03406	2.3673E-05	1.076C	C.75
18C.	22.17921	C.C3534	2.4419E-C5	1.0771	0.74
2CC.	21.22636	0.03661	2.5150E-05	1.0787	C.74
22C.	20.35388	C.03786	2.5866E-05	1.0808	0.74
24C.	19.55176	0.C39C9	2.6567E-05	1.0832	C.74
26C.	18.81168	C.C4031	2.7255E-05	1.C861	C.73
28C.	18.12653	0.04152	2.793CE-C5	1.C892	C.73
3CC.	17.49034	C.C4270	2.8593E-05	1.C927	C.73
32C.	16.89795	C.C4388	2.9243E-C5	1.C965	0.73
34C.	16.34492	0.04504	2.9883E-C5	1.1004	C.73
36C.	15.82739	0.04619	3.0512E-05	1.1046	0.73
38C.	15.34201	C.C4732	3.113CE-C5	1.1C9C	C.73
4CC.	14.88583	C.C4845	3.1739E-C5	1.1135	0.73
42C.	14.45628	C.C4956	3.2339E-C5	1.1182	C.73
44C.	14.05105	0.05066	3.2929E-05	1.1230	0.73
46C.	13.66812	C.C5175	3.351CE-C5	1.1279	0.73
48C.	13.30569	0.05282	3.4084E-C5	1.1329	C.73
5CC.	12.96212	C.C5389	3.4649E-C5	1.1379	0.73
52C.	12.63598	C.C5495	3.52C7E-05	1.1430	0.73
54C.	12.32596	C.C5599	3.5757E-05	1.1481	0.73
56C.	12.03088	C.C57C3	3.6299E-C5	1.1532	C.73
58C.	11.74969	0.05806	3.6835E-C5	1.1584	0.73
6CC.	11.48143	C.C59C8	3.7365E-C5	1.1635	C.74
62C.	11.22519	0.06009	3.7888E-05	1.1685	0.74
64C.	10.98021	C.C6109	3.84C4E-C5	1.1735	0.74
66C.	10.74575	0.C62C9	3.8915E-C5	1.1784	C.74
68C.	10.52113	0.06307	3.9419E-05	1.1833	0.74
7CC.	10.30577	C.C64C5	3.9918E-C5	1.188C	C.74
72C.	10.09907	0.06503	4.0412E-05	1.1926	0.74
74C.	9.90053	C.C6599	4.C9CCE-C5	1.1970	0.74
76C.	9.7C968	C.C6695	4.1383E-05	1.2013	C.74
78C.	9.52609	C.C6790	4.1861E-05	1.2055	0.74
8CC.	9.34931	C.C6885	4.2334E-05	1.2094	C.74
82C.	9.17902	C.C6979	4.2803E-05	1.2132	C.74
84C.	9.01483	C.C7C72	4.3266E-05	1.2167	C.74
86C.	8.85643	0.07165	4.3726E-C5	1.2201	C.74
88C.	8.70351	C.C7257	4.4181E-05	1.2231	0.74
9CC.	8.55581	0.07348	4.4631E-05	1.2259	0.74
92C.	8.41304	C.C7439	4.5C78E-05	1.2284	0.74
94C.	8.27498	C.C7530	4.5521E-C5	1.2307	0.74
96C.	8.14138	0.07620	4.5959E-05	1.2326	0.74
98C.	8.01204	C.C77C9	4.6394E-C5	1.2342	0.74
1CCC.	7.88675	C.07799	4.6825E-05	1.2355	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	44.23605	C.02350	1.7108E-05	1.1105	C.81
20.	40.88435	0.02489	1.8012E-05	1.1008	C.80
40.	38.04250	C.02626	1.8892E-05	1.0935	0.79
60.	35.59557	C.02763	1.9750E-05	1.0882	C.78
80.	33.46220	0.02898	2.0586E-05	1.0843	0.77
100.	31.58287	C.03031	2.1401E-05	1.0817	C.76
120.	29.91275	0.03163	2.2197E-05	1.0802	0.76
140.	28.41734	C.03294	2.2975E-05	1.0795	0.75
160.	27.06961	C.03423	2.3735E-05	1.0796	C.75
180.	25.84802	C.03550	2.4479E-05	1.0803	C.74
200.	24.73506	C.03676	2.5207E-05	1.0816	C.74
220.	23.71649	C.03800	2.5920E-05	1.0834	C.74
240.	22.78047	C.03923	2.6619E-05	1.0857	C.74
260.	21.91716	C.04044	2.7305E-05	1.0882	C.73
280.	21.11818	C.04164	2.7977E-05	1.0913	0.73
300.	20.37646	0.04282	2.8638E-05	1.0947	C.73
320.	19.68596	C.04399	2.9287E-05	1.0983	0.73
340.	19.04144	C.04514	2.9925E-05	1.1021	C.73
360.	18.43840	0.04629	3.0552E-05	1.1062	0.73
380.	17.87291	C.04742	3.1170E-05	1.1105	0.73
400.	17.34149	0.04854	3.1777E-05	1.1149	0.73
420.	16.84113	C.04964	3.2375E-05	1.1195	0.73
440.	16.36914	C.05074	3.2964E-05	1.1242	C.73
460.	15.92317	C.05182	3.3545E-05	1.1291	0.73
480.	15.50107	C.05290	3.4117E-05	1.1340	C.73
500.	15.10098	C.05396	3.4681E-05	1.1390	0.73
520.	14.72118	C.05502	3.5238E-05	1.1440	0.73
540.	14.36018	0.05606	3.5787E-05	1.1491	C.73
560.	14.01659	C.05710	3.6329E-05	1.1541	0.73
580.	13.68917	C.05812	3.6864E-05	1.1592	C.74
600.	13.37680	C.05914	3.7393E-05	1.1643	0.74
620.	13.07846	C.06015	3.7915E-05	1.1693	C.74
640.	12.79323	0.06115	3.8430E-05	1.1742	0.74
660.	12.52023	C.06214	3.8940E-05	1.1791	0.74
680.	12.25871	C.06313	3.9444E-05	1.1839	C.74
700.	12.00794	C.06410	3.9943E-05	1.1886	0.74
720.	11.76728	C.06508	4.0436E-05	1.1932	C.74
740.	11.53611	C.06604	4.0923E-05	1.1976	C.74
760.	11.31390	C.06700	4.1406E-05	1.2019	C.74
780.	11.10013	0.06795	4.1883E-05	1.2060	C.74
800.	10.89431	C.06889	4.2356E-05	1.2100	C.74
820.	10.69601	0.06983	4.2824E-05	1.2137	C.74
840.	10.50483	C.07076	4.3287E-05	1.2172	0.74
860.	10.32039	C.07169	4.3746E-05	1.2205	C.74
880.	10.14233	0.07261	4.4201E-05	1.2236	0.74
900.	9.97035	C.07352	4.4651E-05	1.2264	0.74
920.	9.80411	C.07443	4.5097E-05	1.2289	0.74
940.	9.64334	C.07534	4.5539E-05	1.2311	0.74
960.	9.48778	C.07623	4.5977E-05	1.2330	C.74
980.	9.33716	C.07713	4.6412E-05	1.2346	0.74
1000.	9.19126	C.07802	4.6843E-05	1.2359	C.74

* CO * P= 40. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	50.69652	0.02385	1.7208E-05	1.1201	0.81
20.	46.80576	0.02520	1.8105E-05	1.1091	0.80
40.	43.51875	0.02655	1.8980E-05	1.1007	0.79
60.	40.69621	0.02789	1.9832E-05	1.0944	0.78
80.	38.24059	0.02922	2.0663E-05	1.0898	0.77
100.	36.08089	0.03054	2.1474E-05	1.0866	0.76
120.	34.16417	0.03184	2.2266E-05	1.0845	0.76
140.	32.44975	0.03313	2.3040E-05	1.0834	0.75
160.	30.90599	0.03441	2.3797E-05	1.0831	0.75
180.	29.50766	0.03567	2.4537E-05	1.0835	0.75
200.	28.23448	0.03692	2.5263E-05	1.0845	0.74
220.	27.06981	0.03815	2.5973E-05	1.0861	0.74
240.	26.00000	0.03937	2.6670E-05	1.0881	0.74
260.	25.01358	0.04057	2.7353E-05	1.0906	0.74
280.	24.10095	0.04176	2.8024E-05	1.0934	0.73
300.	23.25394	0.04294	2.8683E-05	1.0966	0.73
320.	22.46556	0.04410	2.9331E-05	1.1000	0.73
340.	21.72981	0.04525	2.9967E-05	1.1038	0.73
360.	21.04153	0.04639	3.0593E-05	1.1077	0.73
380.	20.39616	0.04752	3.1208E-05	1.1119	0.73
400.	19.78975	0.04863	3.1814E-05	1.1163	0.73
420.	19.21884	0.04973	3.2411E-05	1.1208	0.73
440.	18.68033	0.05083	3.2999E-05	1.1254	0.73
460.	18.17154	0.05191	3.3579E-05	1.1302	0.73
480.	17.69003	0.05298	3.4150E-05	1.1351	0.73
500.	17.23363	0.05404	3.4713E-05	1.1400	0.73
520.	16.80040	0.05509	3.5269E-05	1.1450	0.73
540.	16.38863	0.05613	3.5817E-05	1.1500	0.73
560.	15.99672	0.05716	3.6358E-05	1.1550	0.73
580.	15.62327	0.05819	3.6892E-05	1.1601	0.74
600.	15.26698	0.05920	3.7420E-05	1.1651	0.74
620.	14.92671	0.06021	3.7941E-05	1.1701	0.74
640.	14.60137	0.06121	3.8457E-05	1.1750	0.74
660.	14.29000	0.06220	3.8966E-05	1.1798	0.74
680.	13.99171	0.06318	3.9469E-05	1.1846	0.74
700.	13.70571	0.06416	3.9967E-05	1.1893	0.74
720.	13.43121	0.06513	4.0459E-05	1.1938	0.74
740.	13.16755	0.06609	4.0946E-05	1.1982	0.74
760.	12.91410	0.06704	4.1428E-05	1.2025	0.74
780.	12.67027	0.06799	4.1905E-05	1.2066	0.74
800.	12.43552	0.06894	4.2377E-05	1.2105	0.74
820.	12.20935	0.06987	4.2845E-05	1.2142	0.74
840.	11.99129	0.07080	4.3308E-05	1.2177	0.74
860.	11.78091	0.07173	4.3766E-05	1.2210	0.75
880.	11.57782	0.07265	4.4220E-05	1.2240	0.75
900.	11.38163	0.07356	4.4670E-05	1.2268	0.74
920.	11.19201	0.07447	4.5116E-05	1.2293	0.74
940.	11.00863	0.07537	4.5558E-05	1.2315	0.74
960.	10.83117	0.07627	4.5996E-05	1.2334	0.74
980.	10.65937	0.07716	4.6430E-05	1.2350	0.74
1000.	10.49294	0.07805	4.6860E-05	1.2362	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	57.18132	0.02422	1.7308E-05	1.1297	C.81
20.	52.73894	C.C2554	1.8198E-05	1.1172	0.80
40.	48.99886	C.C2665	1.9066E-05	1.1077	C.79
6C.	45.79567	C.C2817	1.9913E-05	1.1006	C.78
8C.	43.01445	C.C2948	2.0739E-05	1.0952	C.77
1CC.	40.5723C	C.C3078	2.1546E-05	1.0914	0.76
120.	38.40758	C.C32C6	2.2334E-05	1.0888	C.76
140.	36.47334	0.03334	2.3104E-05	1.0872	C.75
160.	34.73305	C.C3460	2.3858E-05	1.0865	0.75
180.	33.15778	C.C3585	2.4596E-05	1.0866	C.75
2CC.	31.72427	C.C37C9	2.5318E-05	1.0874	0.74
220.	30.41357	C.C3831	2.6026E-05	1.0887	C.74
24C.	29.21007	0.03952	2.6721E-05	1.0905	0.74
26C.	28.10074	C.C4071	2.7402E-05	1.0928	0.74
28C.	27.07468	C.C419C	2.8071E-05	1.0955	C.73
3CC.	26.12260	C.C43C7	2.8728E-05	1.0985	0.73
32C.	25.23663	C.C4422	2.9374E-05	1.1018	C.73
34C.	24.40996	C.C4537	3.0008E-05	1.1054	C.73
36C.	23.63667	C.C465C	3.0633E-05	1.1093	C.73
38C.	22.91170	0.04762	3.1247E-05	1.1134	C.73
4CC.	22.23058	C.C4873	3.1852E-05	1.1176	C.73
42C.	21.58936	0.04983	3.2447E-05	1.1221	C.73
44C.	20.98462	C.C5092	3.3034E-05	1.1267	0.73
46C.	20.41325	C.C5199	3.3612E-05	1.1314	C.73
48C.	19.87254	0.05306	3.4182E-05	1.1361	C.73
5CC.	19.36005	C.C5412	3.4745E-05	1.1410	C.73
52C.	18.87361	0.05517	3.5299E-05	1.1460	0.73
54C.	18.41127	C.C5621	3.5847E-05	1.1509	0.73
56C.	17.97125	C.C5723	3.6387E-05	1.1559	C.73
58C.	17.55194	C.C5826	3.6920E-05	1.1609	0.74
6CC.	17.15193	C.C5927	3.7447E-05	1.1659	C.74
62C.	16.76988	C.C6027	3.7968E-05	1.1708	0.74
64C.	16.40462	C.C6127	3.8482E-05	1.1757	C.74
66C.	16.05505	0.06226	3.8991E-05	1.1805	C.74
68C.	15.72016	C.C6324	3.9494E-05	1.1853	0.74
7CC.	15.39905	0.06421	3.9991E-05	1.1899	C.74
72C.	15.09087	C.C6518	4.0483E-05	1.1944	0.74
74C.	14.79485	C.C6614	4.0969E-05	1.1988	C.74
76C.	14.51030	0.06710	4.1451E-05	1.2031	C.74
78C.	14.23653	C.C68C4	4.1927E-05	1.2071	0.74
8CC.	13.97296	0.06898	4.2399E-05	1.2110	0.74
82C.	13.71903	C.C6992	4.2866E-05	1.2147	0.74
84C.	13.47419	C.C7085	4.3328E-05	1.2182	C.75
86C.	13.23798	C.C7177	4.3786E-05	1.2215	C.75
88C.	13.00995	C.C7269	4.4240E-05	1.2245	0.75
9CC.	12.78968	C.C7360	4.4689E-05	1.2272	0.75
92C.	12.57675	C.C7451	4.5135E-05	1.2297	C.74
94C.	12.37084	0.07541	4.5576E-05	1.2319	C.74
96C.	12.17159	C.C7631	4.6014E-05	1.2338	0.74
98C.	11.97867	C.C772C	4.6447E-05	1.2354	C.74
1CCC.	11.79179	C.C78C9	4.6877E-05	1.2366	0.74

T GRAD-C	RHC KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	63.68646	C.C246C	1.74C7E-05	1.1392	C.81
20.	58.68C86	0.02588	1.8290E-05	1.1254	C.80
4C.	54.48055	C.C2717	1.9152E-C5	1.1148	C.79
6C.	50.89217	0.02846	1.9994E-05	1.1C67	C.78
8C.	47.78246	C.C2975	2.0815E-C5	1.1006	0.77
100.	45.C5600	0.03103	2.1617E-C5	1.C961	C.76
12C.	42.64214	C.C3229	2.24C1E-C5	1.0930	0.76
140.	40.4874C	C.C3355	2.3168E-C5	1.C91C	C.75
16C.	38.55025	0.03480	2.3919E-05	1.C90C	C.75
18C.	36.79787	C.C36C4	2.4653E-C5	1.0898	0.75
20C.	35.20407	0.03726	2.5373E-05	1.0902	0.74
22C.	33.74745	C.C3848	2.6079E-C5	1.0913	0.74
240.	32.41046	0.C3967	2.6771E-C5	1.C929	C.74
26C.	31.17845	C.C4C86	2.7450E-C5	1.C950	C.74
28C.	30.C3922	C.C42C4	2.8117E-C5	1.C975	C.73
3CC.	28.98238	C.C4320	2.8772E-05	1.1CC4	0.73
32C.	27.99907	C.C4435	2.9416E-C5	1.1C36	C.73
34C.	27.08173	0.04549	3.0049E-C5	1.1071	C.73
36C.	26.22375	C.C4661	3.0672E-C5	1.1108	0.73
38C.	25.41946	C.C4772	3.1285E-C5	1.1148	C.73
4CC.	24.66389	C.C4883	3.1888E-C5	1.1190	0.73
42C.	23.95265	0.C4993	3.2483E-C5	1.1234	C.73
44C.	23.28191	0.05101	3.3068E-05	1.1279	0.73
46C.	22.64822	C.C52C9	3.3646E-C5	1.1325	0.73
48C.	22.04857	C.05315	3.4215E-C5	1.1372	C.73
5CC.	21.48024	C.C542C	3.4776E-C5	1.1420	0.73
52C.	20.94081	0.C5525	3.533CE-05	1.1469	C.73
54C.	20.42810	C.C5628	3.5876E-05	1.1518	C.73
56C.	19.94017	C.C5731	3.6416E-C5	1.1568	0.74
58C.	19.47520	0.05833	3.6948E-05	1.1617	C.74
6CC.	19.03165	C.C5934	3.7475E-C5	1.1667	C.74
62C.	18.60803	0.06034	3.7994E-C5	1.1716	C.74
64C.	18.20299	C.C6133	3.85C8E-C5	1.1764	0.74
66C.	17.81537	C.06232	3.9C16E-C5	1.1812	C.74
68C.	17.44402	0.06330	3.9518E-05	1.1859	0.74
7CC.	17.08795	C.C6427	4.0C15E-C5	1.19C6	C.74
72C.	16.74623	0.06524	4.0506E-05	1.1950	0.74
74C.	16.41798	C.C662C	4.C992E-C5	1.1994	0.74
76C.	16.10245	C.06715	4.1473E-C5	1.2036	C.74
78C.	15.79890	C.C6810	4.1949E-05	1.2077	0.74
8CC.	15.5C663	C.C69C4	4.242CE-C5	1.2116	C.74
82C.	15.22503	C.C6997	4.2886E-05	1.2152	0.74
84C.	14.95354	C.C7C9C	4.3348E-05	1.2187	0.75
86C.	14.69161	0.07182	4.38C6E-C5	1.2219	C.75
88C.	14.43874	C.C7274	4.4259E-C5	1.2249	0.75
9CC.	14.19446	0.07365	4.47C8E-C5	1.2277	C.75
92C.	13.95835	C.C7455	4.5153E-C5	1.2301	0.75
94C.	13.72999	C.C7545	4.5594E-C5	1.2323	C.74
96C.	13.50902	0.07635	4.6031E-05	1.2342	0.74
98C.	13.29507	C.C7724	4.6465E-05	1.2357	0.74
1CCC.	13.08782	0.07813	4.6894E-05	1.237C	0.74

****

* STOFFWERTE FUER CO2 *

****

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	1.50441	C.02095	1.7247E-05	C.9019	0.74
100.	1.42251	C.02258	1.8109E-05	0.9191	0.74
120.	1.34928	C.02420	1.8954E-05	0.9356	0.73
140.	1.28336	0.02582	1.9781E-05	0.9517	C.73
160.	1.22366	C.02744	2.0592E-05	0.9672	0.73
180.	1.16934	C.02904	2.1388E-05	0.9822	C.72
200.	1.11968	C.03063	2.2168E-05	0.9967	0.72
220.	1.07410	0.03221	2.2935E-05	1.0106	C.72
240.	1.03211	0.03378	2.3687E-05	1.0241	0.72
260.	0.99330	C.03533	2.4426E-05	1.0371	0.72
280.	0.95731	0.03687	2.5152E-05	1.0497	C.72
300.	C.92384	C.03839	2.5866E-05	1.0618	0.72
320.	0.89265	0.03991	2.6569E-05	1.0735	C.71
340.	0.86349	C.04140	2.7260E-05	1.0847	0.71
360.	0.83619	C.04288	2.7940E-05	1.0955	0.71
380.	0.81052	0.04435	2.8610E-05	1.1059	C.71
400.	C.78626	C.04580	2.9270E-05	1.1160	C.71
420.	C.76358	0.04724	2.9920E-05	1.1256	0.71
440.	C.74218	C.04866	3.0560E-05	1.1349	0.71
460.	0.72194	C.05007	3.1192E-05	1.1438	C.71
480.	C.70278	0.05146	3.1815E-05	1.1524	0.71
500.	0.68460	C.05284	3.2430E-05	1.1607	C.71
520.	C.66734	0.05420	3.3036E-05	1.1687	0.71
540.	C.65093	C.05555	3.3635E-05	1.1763	0.71
560.	0.63531	C.05689	3.4226E-05	1.1836	C.71
580.	C.62042	C.05822	3.4809E-05	1.1907	0.71
600.	0.60621	C.05953	3.5386E-05	1.1975	C.71
620.	C.59264	C.06083	3.5956E-05	1.2040	0.71
640.	0.57966	C.06211	3.6519E-05	1.2103	0.71
660.	C.56724	0.06338	3.7075E-05	1.2164	C.71
680.	C.55534	C.06464	3.7625E-05	1.2222	0.71
700.	C.54393	0.06589	3.8169E-05	1.2279	C.71
720.	C.53297	C.06713	3.8708E-05	1.2333	0.71
740.	0.52245	C.06817	3.9240E-05	1.2385	C.71
760.	C.51234	0.06914	3.9767E-05	1.2436	0.72
780.	0.50261	C.07009	4.0288E-05	1.2485	0.72
800.	C.49324	0.07104	4.0804E-05	1.2533	0.72
820.	C.48422	C.07198	4.1315E-05	1.2579	0.72
840.	0.47552	0.07292	4.1821E-05	1.2624	0.72
860.	0.46713	C.07385	4.2322E-05	1.2668	0.73
880.	0.45903	C.07477	4.2819E-05	1.2711	C.73
900.	C.45120	C.07568	4.3310E-05	1.2753	0.73
920.	0.44364	C.07658	4.3797E-05	1.2794	C.73
940.	C.43633	0.07748	4.4280E-05	1.2835	0.73
960.	0.42925	C.07837	4.4758E-05	1.2875	0.74
980.	0.42240	C.07926	4.5232E-05	1.2915	C.74
1000.	C.41576	C.08014	4.5702E-05	1.2954	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	7.63328	C.C21C9	1.7397E-05	0.9197	0.76
100.	7.19249	0.02271	1.8243E-05	0.9341	C.75
120.	6.80483	C.C2433	1.9073E-05	0.9485	0.74
140.	6.46016	0.C2594	1.9889E-05	C.9628	C.74
160.	6.15099	0.02755	2.0690E-05	0.9768	0.73
180.	5.87164	C.C2915	2.1476E-05	0.9906	0.73
200.	5.61765	0.03073	2.2249E-05	1.C04C	0.73
220.	5.38552	C.C3231	2.3CC8E-05	1.0171	0.72
240.	5.17237	C.C3387	2.3754E-05	1.C299	C.72
260.	4.97588	C.C3542	2.4488E-05	1.0423	0.72
280.	4.79406	C.C3695	2.52C9E-05	1.0543	0.72
300.	4.62530	C.C3848	2.5919E-05	1.0659	0.72
320.	4.46819	C.C3998	2.6618E-05	1.0772	0.72
340.	4.32153	0.04148	2.7305E-05	1.0881	0.72
360.	4.18429	C.C4295	2.7982E-05	1.0986	0.72
380.	4.04952	C.04442	2.8649E-05	1.1087	C.72
400.	3.92956	C.C4587	2.9306E-05	1.1185	0.71
420.	3.81646	0.04730	2.9954E-05	1.1279	0.71
440.	3.70967	0.04872	3.0593E-05	1.137C	C.71
460.	3.60866	C.C5012	3.1222E-05	1.1458	0.71
480.	3.51299	0.05152	3.1844E-05	1.1542	C.71
500.	3.42225	0.C5289	3.2456E-05	1.1624	0.71
520.	3.33607	C.05426	3.3061E-05	1.1702	C.71
540.	3.25411	C.C556C	3.3659E-05	1.1777	0.71
560.	3.17607	C.C5694	3.4248E-05	1.1849	0.71
580.	3.10168	0.05826	3.4831E-05	1.1919	C.71
600.	3.03069	C.C5957	3.54C6E-05	1.1986	0.71
620.	2.96288	0.06087	3.5975E-05	1.2051	0.71
640.	2.89803	C.C6215	3.6537E-05	1.2113	0.71
660.	2.83595	0.06343	3.7093E-05	1.2173	C.71
680.	2.77647	0.06469	3.7642E-05	1.2231	0.71
700.	2.71944	0.06593	3.8185E-05	1.2287	C.71
720.	2.66470	0.06717	3.8723E-05	1.2340	0.71
740.	2.61211	C.C6821	3.9255E-05	1.2392	0.71
760.	2.56156	0.06917	3.9781E-05	1.2443	C.72
780.	2.51293	C.C7013	4.0302E-05	1.2492	0.72
800.	2.46611	0.C7108	4.0817E-05	1.2539	C.72
820.	2.42101	C.C7202	4.1327E-05	1.2585	0.72
840.	2.37752	C.C7295	4.1833E-05	1.2630	C.72
860.	2.33557	0.07388	4.2333E-05	1.2673	C.73
880.	2.29507	C.C7480	4.2829E-05	1.2716	0.73
900.	2.25595	0.07571	4.3320E-05	1.2758	C.73
920.	2.21814	C.C7661	4.3807E-05	1.2799	0.73
940.	2.18158	C.C7751	4.4289E-05	1.2839	C.73
960.	2.14620	0.07840	4.4767E-05	1.2879	0.74
980.	2.11195	C.C7928	4.5241E-05	1.2918	0.74
1000.	2.C7878	0.08016	4.5711E-05	1.2958	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	15.54455	0.02133	1.7585E-05	0.9436	0.78
100.	14.58473	0.02294	1.8410E-05	0.9544	0.77
120.	13.75569	0.02455	1.9223E-05	0.9658	0.76
140.	13.02875	0.02615	2.0024E-05	0.9777	0.75
160.	12.38363	0.02774	2.0811E-05	0.9897	0.74
180.	11.80554	0.02933	2.1587E-05	1.0019	0.74
200.	11.28336	0.03091	2.2349E-05	1.0139	0.73
220.	10.80852	0.03248	2.3100E-05	1.0259	0.73
240.	10.37428	0.03403	2.3838E-05	1.0376	0.73
260.	9.97522	0.03557	2.4565E-05	1.0492	0.72
280.	9.60695	0.03710	2.5281E-05	1.0605	0.72
300.	9.26580	0.03862	2.5985E-05	1.0715	0.72
320.	8.94875	0.04012	2.6679E-05	1.0822	0.72
340.	8.65320	0.04161	2.7362E-05	1.0926	0.72
360.	8.37696	0.04308	2.8035E-05	1.1027	0.72
380.	8.09385	0.04454	2.8699E-05	1.1125	0.72
400.	7.85479	0.04598	2.9352E-05	1.1219	0.72
420.	7.62929	0.04741	2.9997E-05	1.1311	0.72
440.	7.41627	0.04883	3.0633E-05	1.1399	0.72
460.	7.21473	0.05023	3.1260E-05	1.1484	0.71
480.	7.02378	0.05162	3.1879E-05	1.1567	0.71
500.	6.84262	0.05299	3.2490E-05	1.1646	0.71
520.	6.67052	0.05435	3.3093E-05	1.1722	0.71
540.	6.50682	0.05569	3.3689E-05	1.1796	0.71
560.	6.35094	0.05703	3.4277E-05	1.1867	0.71
580.	6.20232	0.05835	3.4858E-05	1.1936	0.71
600.	6.06048	0.05965	3.5432E-05	1.2002	0.71
620.	5.92496	0.06095	3.5999E-05	1.2065	0.71
640.	5.79535	0.06223	3.6560E-05	1.2126	0.71
660.	5.67128	0.06350	3.7115E-05	1.2186	0.71
680.	5.55240	0.06476	3.7663E-05	1.2243	0.71
700.	5.43840	0.06600	3.8205E-05	1.2298	0.71
720.	5.32897	0.06724	3.8742E-05	1.2351	0.71
740.	5.22385	0.06827	3.9273E-05	1.2402	0.71
760.	5.12280	0.06924	3.9798E-05	1.2452	0.72
780.	5.02557	0.07019	4.0318E-05	1.2500	0.72
800.	4.93196	0.07114	4.0833E-05	1.2547	0.72
820.	4.84178	0.07208	4.1343E-05	1.2592	0.72
840.	4.75482	0.07301	4.1847E-05	1.2637	0.72
860.	4.67094	0.07393	4.2347E-05	1.2680	0.73
880.	4.58996	0.07485	4.2843E-05	1.2722	0.73
900.	4.51174	0.07576	4.3333E-05	1.2764	0.73
920.	4.43613	0.07666	4.3819E-05	1.2804	0.73
940.	4.36302	0.07756	4.4301E-05	1.2844	0.73
960.	4.29228	0.07845	4.4779E-05	1.2884	0.74
980.	4.22379	0.07933	4.5252E-05	1.2923	0.74
1000.	4.15746	0.08021	4.5721E-05	1.2962	0.74

* CO2 * P= 15. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	23.73383	0.02161	1.7773E-05	0.9662	0.80
100.	22.17673	0.02320	1.8578E-05	0.9752	0.78
120.	20.85258	0.02480	1.9373E-05	0.9837	0.77
140.	19.70576	0.02639	2.0158E-05	0.9930	0.76
160.	18.69792	0.02797	2.0933E-05	1.0031	0.75
180.	17.80171	0.02955	2.1697E-05	1.0135	0.74
200.	16.99713	0.03112	2.2450E-05	1.0242	0.74
220.	16.26900	0.03267	2.3192E-05	1.0349	0.73
240.	15.60572	0.03422	2.3923E-05	1.0456	0.73
260.	14.99806	0.03575	2.4643E-05	1.0563	0.73
280.	14.43867	0.03727	2.5352E-05	1.0668	0.73
300.	13.92154	0.03878	2.6051E-05	1.0772	0.72
320.	13.44170	0.04028	2.6740E-05	1.0873	0.72
340.	12.99503	0.04176	2.7419E-05	1.0973	0.72
360.	12.57799	0.04322	2.8088E-05	1.1069	0.72
380.	12.18300	0.04468	2.8748E-05	1.1163	0.72
400.	11.77569	0.04611	2.9399E-05	1.1254	0.72
420.	11.43850	0.04754	3.0040E-05	1.1343	0.72
440.	11.11982	0.04895	3.0674E-05	1.1428	0.72
460.	10.81821	0.05035	3.1298E-05	1.1511	0.72
480.	10.53236	0.05173	3.1915E-05	1.1591	0.72
500.	10.26110	0.05310	3.2524E-05	1.1669	0.71
520.	10.00335	0.05446	3.3125E-05	1.1744	0.71
540.	9.75814	0.05580	3.3719E-05	1.1816	0.71
560.	9.52460	0.05713	3.4305E-05	1.1885	0.71
580.	9.30191	0.05845	3.4885E-05	1.1953	0.71
600.	9.08935	0.05975	3.5457E-05	1.2017	0.71
620.	8.88625	0.06104	3.6024E-05	1.2080	0.71
640.	8.69199	0.06232	3.6583E-05	1.2140	0.71
660.	8.50601	0.06359	3.7137E-05	1.2198	0.71
680.	8.32780	0.06484	3.7684E-05	1.2255	0.71
700.	8.15688	0.06608	3.8225E-05	1.2309	0.71
720.	7.99282	0.06731	3.8761E-05	1.2361	0.71
740.	7.83522	0.06853	3.9291E-05	1.2412	0.71
760.	7.68370	0.06931	3.9815E-05	1.2461	0.72
780.	7.53791	0.07026	4.0335E-05	1.2509	0.72
800.	7.39755	0.07121	4.0849E-05	1.2555	0.72
820.	7.26231	0.07214	4.1358E-05	1.2600	0.72
840.	7.13192	0.07307	4.1862E-05	1.2644	0.72
860.	7.00612	0.07399	4.2361E-05	1.2687	0.73
880.	6.88468	0.07491	4.2856E-05	1.2729	0.73
900.	6.76737	0.07582	4.3346E-05	1.2770	0.73
920.	6.65399	0.07672	4.3832E-05	1.2810	0.73
940.	6.54434	0.07761	4.4313E-05	1.2850	0.73
960.	6.43825	0.07850	4.4790E-05	1.2889	0.74
980.	6.33554	0.07938	4.5263E-05	1.2928	0.74
1000.	6.23605	0.08026	4.5732E-05	1.2967	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	32.20114	C.02192	1.7961E-05	C.9933	0.81
100.	29.96851	C.02349	1.8745E-05	0.9965	0.80
120.	28.09554	C.02507	1.9523E-05	1.0018	0.78
140.	26.49124	0.02665	2.0293E-05	1.0087	0.77
160.	25.09290	C.02822	2.1055E-05	1.0166	0.76
180.	23.86021	0.02979	2.1808E-05	1.0253	C.75
200.	22.75899	C.03134	2.2551E-05	1.0346	0.74
220.	21.76703	0.03289	2.3284E-05	1.0441	C.74
240.	20.86670	0.03442	2.4007E-05	1.0538	C.73
260.	20.04437	C.03595	2.4720E-05	1.0636	0.73
280.	19.28920	0.03746	2.5424E-05	1.0733	C.73
300.	18.59245	C.03896	2.6117E-05	1.0830	0.73
320.	17.94704	0.04045	2.6801E-05	1.0926	C.72
340.	17.34700	C.04192	2.7476E-05	1.1020	0.72
360.	16.78740	C.04338	2.8141E-05	1.1112	C.72
380.	16.16696	0.04483	2.8797E-05	1.1202	C.72
400.	15.69228	C.04626	2.9445E-05	1.1290	C.72
420.	15.24408	0.04768	3.0084E-05	1.1375	C.72
440.	14.82031	C.04909	3.0714E-05	1.1458	0.72
460.	14.41910	0.05048	3.1337E-05	1.1539	C.72
480.	14.03874	0.05186	3.1951E-05	1.1617	0.72
500.	13.67770	0.05322	3.2558E-05	1.1692	C.72
520.	13.33457	0.05457	3.3157E-05	1.1765	0.71
540.	13.00808	C.05591	3.3749E-05	1.1836	0.71
560.	12.69707	C.05724	3.4334E-05	1.1904	0.71
580.	12.40047	C.05855	3.4912E-05	1.1970	0.71
600.	12.11732	0.05985	3.5483E-05	1.2033	C.71
620.	11.84675	C.06114	3.6048E-05	1.2095	0.71
640.	11.58793	C.06242	3.6606E-05	1.2154	0.71
660.	11.34013	0.06368	3.7158E-05	1.2211	C.71
680.	11.10266	C.06493	3.7705E-05	1.2267	0.71
700.	10.87490	0.06617	3.8245E-05	1.2320	C.71
720.	10.65626	C.06740	3.8780E-05	1.2372	0.71
740.	10.44622	0.06863	3.9309E-05	1.2422	C.71
760.	10.24427	0.06939	3.9833E-05	1.2471	0.72
780.	10.04997	C.07034	4.0351E-05	1.2518	0.72
800.	9.86268	0.07128	4.0865E-05	1.2564	0.72
820.	9.68261	C.07222	4.1373E-05	1.2608	0.72
840.	9.50881	0.07314	4.1877E-05	1.2652	0.72
860.	9.34112	C.07406	4.2375E-05	1.2694	0.73
880.	9.17924	C.07498	4.2869E-05	1.2735	0.73
900.	9.02286	0.07588	4.3359E-05	1.2776	0.73
920.	8.87171	C.07678	4.3844E-05	1.2816	C.73
940.	8.72554	0.07768	4.4325E-05	1.2856	C.73
960.	8.58411	C.07856	4.4802E-05	1.2895	0.74
980.	8.44718	C.07944	4.5274E-05	1.2933	C.74
1000.	8.31454	C.08032	4.5743E-05	1.2972	0.74

* CO2 * P= 25. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	40.94649	0.02225	1.8150E-05	1.0187	0.83
100.	37.96008	0.02381	1.8913E-05	1.0180	0.81
120.	35.48454	0.02537	1.9673E-05	1.0202	0.79
140.	33.38516	0.02693	2.0428E-05	1.0245	0.78
160.	31.57149	0.02849	2.1177E-05	1.0304	0.77
180.	29.98099	0.03004	2.1918E-05	1.0374	0.76
200.	28.56891	0.03158	2.2651E-05	1.0451	0.75
220.	27.30252	0.03312	2.3376E-05	1.0534	0.74
240.	26.15721	0.03464	2.4091E-05	1.0620	0.74
260.	25.11418	0.03616	2.4798E-05	1.0709	0.73
280.	24.15858	0.03766	2.5495E-05	1.0799	0.73
300.	23.27863	0.03915	2.6183E-05	1.0889	0.73
320.	22.46475	0.04063	2.6862E-05	1.0979	0.73
340.	21.70912	0.04210	2.7533E-05	1.1068	0.72
360.	21.00517	0.04355	2.8194E-05	1.1156	0.72
380.	20.19576	0.04499	2.8847E-05	1.1242	0.72
400.	19.60452	0.04642	2.9491E-05	1.1326	0.72
420.	19.04602	0.04783	3.0127E-05	1.1409	0.72
440.	18.51773	0.04923	3.0755E-05	1.1489	0.72
460.	18.01738	0.05062	3.1375E-05	1.1567	0.72
480.	17.54291	0.05199	3.1987E-05	1.1642	0.72
500.	17.09241	0.05335	3.2591E-05	1.1716	0.72
520.	16.66415	0.05470	3.3189E-05	1.1787	0.72
540.	16.25661	0.05603	3.3779E-05	1.1856	0.71
560.	15.86833	0.05736	3.4362E-05	1.1923	0.71
580.	15.49798	0.05867	3.4939E-05	1.1987	0.71
600.	15.14439	0.05996	3.5509E-05	1.2050	0.71
620.	14.80646	0.06125	3.6072E-05	1.2110	0.71
640.	14.48318	0.06252	3.6629E-05	1.2168	0.71
660.	14.17364	0.06378	3.7180E-05	1.2225	0.71
680.	13.87699	0.06503	3.7726E-05	1.2279	0.71
700.	13.59244	0.06627	3.8265E-05	1.2332	0.71
720.	13.31928	0.06749	3.8799E-05	1.2383	0.71
740.	13.05685	0.06852	3.9327E-05	1.2432	0.71
760.	12.80452	0.06948	3.9850E-05	1.2480	0.72
780.	12.56172	0.07042	4.0368E-05	1.2527	0.72
800.	12.32794	0.07136	4.0881E-05	1.2572	0.72
820.	12.10268	0.07229	4.1388E-05	1.2616	0.72
840.	11.88548	0.07322	4.1891E-05	1.2659	0.72
860.	11.67593	0.07414	4.2389E-05	1.2701	0.73
880.	11.47362	0.07505	4.2883E-05	1.2742	0.73
900.	11.27819	0.07595	4.3372E-05	1.2783	0.73
920.	11.08930	0.07685	4.3857E-05	1.2822	0.73
940.	10.90662	0.07774	4.4337E-05	1.2862	0.73
960.	10.72985	0.07863	4.4813E-05	1.2900	0.74
980.	10.55871	0.07951	4.5285E-05	1.2939	0.74
1000.	10.39295	0.08038	4.5753E-05	1.2977	0.74

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	49.96983	0.02259	1.8338E-05	1.0444	0.85
100.	46.15140	0.02413	1.9080E-05	1.0398	0.82
120.	43.01959	0.02568	1.9823E-05	1.0388	0.80
140.	40.38751	0.02722	2.0563E-05	1.0406	0.79
160.	38.13078	0.02877	2.1299E-05	1.0443	0.77
180.	36.16403	0.03031	2.2029E-05	1.0495	0.76
200.	34.42690	0.03184	2.2752E-05	1.0558	0.75
220.	32.87552	0.03336	2.3468E-05	1.0628	0.75
240.	31.47729	0.03488	2.4175E-05	1.0704	0.74
260.	30.20746	0.03638	2.4875E-05	1.0784	0.74
280.	29.04678	0.03787	2.5566E-05	1.0866	0.73
300.	27.98000	0.03936	2.6249E-05	1.0949	0.73
320.	26.99486	0.04083	2.6924E-05	1.1033	0.73
340.	26.08139	0.04228	2.7589E-05	1.1117	0.73
360.	25.23132	0.04373	2.8247E-05	1.1200	0.72
380.	24.21935	0.04516	2.8896E-05	1.1282	0.72
400.	23.51247	0.04658	2.9537E-05	1.1363	0.72
420.	22.84435	0.04799	3.0170E-05	1.1442	0.72
440.	22.21210	0.04939	3.0795E-05	1.1519	0.72
460.	21.61306	0.05077	3.1413E-05	1.1595	0.72
480.	21.04488	0.05213	3.2023E-05	1.1668	0.72
500.	20.50525	0.05349	3.2625E-05	1.1740	0.72
520.	19.99214	0.05483	3.3221E-05	1.1809	0.72
540.	19.50375	0.05616	3.3809E-05	1.1877	0.71
560.	19.03838	0.05748	3.4391E-05	1.1942	0.71
580.	18.59444	0.05879	3.4966E-05	1.2005	0.71
600.	18.17053	0.06008	3.5534E-05	1.2066	0.71
620.	17.76535	0.06136	3.6096E-05	1.2125	0.71
640.	17.37773	0.06263	3.6652E-05	1.2183	0.71
660.	17.00653	0.06389	3.7202E-05	1.2238	0.71
680.	16.65076	0.06513	3.7746E-05	1.2292	0.71
700.	16.30949	0.06637	3.8285E-05	1.2344	0.71
720.	15.98189	0.06759	3.8818E-05	1.2394	0.71
740.	15.66710	0.06882	3.9345E-05	1.2443	0.71
760.	15.36443	0.06957	3.9867E-05	1.2490	0.72
780.	15.07318	0.07051	4.0384E-05	1.2536	0.72
800.	14.79274	0.07145	4.0896E-05	1.2581	0.72
820.	14.52251	0.07238	4.1403E-05	1.2624	0.72
840.	14.26195	0.07330	4.1906E-05	1.2667	0.72
860.	14.01054	0.07422	4.2403E-05	1.2708	0.73
880.	13.76783	0.07512	4.2896E-05	1.2749	0.73
900.	13.53337	0.07603	4.3385E-05	1.2789	0.73
920.	13.30674	0.07692	4.3869E-05	1.2829	0.73
940.	13.08756	0.07781	4.4349E-05	1.2867	0.73
960.	12.87548	0.07870	4.4825E-05	1.2906	0.74
980.	12.67015	0.07957	4.5296E-05	1.2944	0.74
1000.	12.47125	0.08044	4.5764E-05	1.2982	0.74

* CO2 * P= 35. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	59.27115	0.02295	1.8526E-05	1.0703	0.86
100.	54.54250	0.02448	1.9248E-05	1.0617	0.83
120.	50.70065	0.02600	1.9973E-05	1.0576	0.81
140.	47.49829	0.02753	2.0698E-05	1.0567	0.79
160.	44.77174	0.02906	2.1420E-05	1.0583	0.78
180.	42.40942	0.03058	2.2139E-05	1.0617	0.77
200.	40.33295	0.03210	2.2852E-05	1.0665	0.76
220.	38.48599	0.03361	2.3559E-05	1.0723	0.75
240.	36.82690	0.03512	2.4260E-05	1.0788	0.75
260.	35.32422	0.03661	2.4953E-05	1.0859	0.74
280.	33.95381	0.03809	2.5638E-05	1.0933	0.74
300.	32.69656	0.03957	2.6315E-05	1.1009	0.73
320.	31.53734	0.04103	2.6985E-05	1.1087	0.73
340.	30.46382	0.04248	2.7646E-05	1.1166	0.73
360.	29.46585	0.04392	2.8300E-05	1.1245	0.72
380.	28.53776	0.04534	2.8945E-05	1.1323	0.72
400.	27.41606	0.04676	2.9583E-05	1.1400	0.72
420.	26.63902	0.04816	3.0213E-05	1.1476	0.72
440.	25.90341	0.04955	3.0836E-05	1.1550	0.72
460.	25.20621	0.05092	3.1451E-05	1.1623	0.72
480.	24.54465	0.05228	3.2058E-05	1.1695	0.72
500.	23.91618	0.05363	3.2659E-05	1.1764	0.72
520.	23.31853	0.05497	3.3252E-05	1.1832	0.72
540.	22.74951	0.05630	3.3839E-05	1.1897	0.72
560.	22.20721	0.05761	3.4419E-05	1.1961	0.71
580.	21.68987	0.05891	3.4993E-05	1.2023	0.71
600.	21.19577	0.06020	3.5560E-05	1.2083	0.71
620.	20.72346	0.06148	3.6121E-05	1.2141	0.71
640.	20.27159	0.06274	3.6675E-05	1.2197	0.71
660.	19.83882	0.06400	3.7224E-05	1.2252	0.71
680.	19.42403	0.06524	3.7767E-05	1.2304	0.71
700.	19.02609	0.06647	3.8305E-05	1.2355	0.71
720.	18.64404	0.06769	3.8837E-05	1.2405	0.71
740.	18.27696	0.06871	3.9363E-05	1.2453	0.71
760.	17.92400	0.06966	3.9885E-05	1.2500	0.72
780.	17.58434	0.07060	4.0401E-05	1.2545	0.72
800.	17.25725	0.07154	4.0912E-05	1.2589	0.72
820.	16.94209	0.07246	4.1419E-05	1.2633	0.72
840.	16.63818	0.07338	4.1920E-05	1.2675	0.72
860.	16.34496	0.07430	4.2417E-05	1.2716	0.73
880.	16.06186	0.07520	4.2910E-05	1.2756	0.73
900.	15.78839	0.07610	4.3398E-05	1.2796	0.73
920.	15.52404	0.07700	4.3881E-05	1.2835	0.73
940.	15.26838	0.07788	4.4361E-05	1.2873	0.73
960.	15.02099	0.07877	4.4836E-05	1.2911	0.73
980.	14.78147	0.07964	4.5307E-05	1.2949	0.74
1000.	14.54946	0.08051	4.5775E-05	1.2987	0.74

P= 40. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
C.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	68.85049	C.02333	1.8714E-05	1.0964	0.88
100.	63.13332	C.02483	1.9415E-05	1.0839	0.85
120.	58.52779	0.02634	2.0123E-05	1.0765	0.82
140.	54.71751	0.02785	2.0833E-05	1.0730	C.80
160.	51.49435	C.02936	2.1542E-05	1.0724	0.79
180.	48.71703	0.03087	2.2250E-05	1.0741	0.77
200.	46.28708	C.03238	2.2953E-05	1.0773	0.76
220.	44.13396	0.03388	2.3651E-05	1.0818	0.76
240.	42.20602	0.03537	2.4344E-05	1.0873	0.75
260.	40.46448	C.03685	2.5030E-05	1.0934	0.74
280.	38.87965	0.03832	2.5709E-05	1.1000	0.74
300.	37.42836	C.03979	2.6381E-05	1.1070	0.73
320.	36.09225	0.04124	2.7046E-05	1.1142	C.73
340.	34.85641	C.04268	2.7703E-05	1.1215	0.73
360.	33.70876	C.04411	2.8353E-05	1.1289	C.73
380.	32.25101	0.04553	2.8995E-05	1.1363	C.72
400.	31.31534	C.04694	2.9629E-05	1.1437	C.72
420.	30.43008	0.04833	3.0256E-05	1.1510	C.72
440.	29.59166	C.04971	3.0876E-05	1.1582	0.72
460.	28.79672	0.05108	3.1489E-05	1.1652	C.72
480.	28.04221	0.05244	3.2094E-05	1.1721	0.72
500.	27.32526	0.05378	3.2693E-05	1.1788	C.72
520.	26.64328	0.05512	3.3284E-05	1.1854	0.72
540.	25.99388	C.05644	3.3869E-05	1.1918	0.72
560.	25.37488	C.05774	3.4448E-05	1.1980	0.71
580.	24.78424	C.05904	3.5020E-05	1.2041	0.71
600.	24.22012	C.06033	3.5585E-05	1.2099	C.71
620.	23.68082	C.06160	3.6145E-05	1.2156	0.71
640.	23.16476	C.06286	3.6698E-05	1.2212	C.71
660.	22.67050	0.06411	3.7246E-05	1.2265	C.71
680.	22.19673	C.06535	3.7788E-05	1.2317	0.71
700.	21.74222	0.06658	3.8325E-05	1.2367	C.71
720.	21.30582	C.06780	3.8856E-05	1.2416	0.71
740.	20.88647	0.06882	3.9382E-05	1.2464	0.71
760.	20.48323	0.06976	3.9902E-05	1.2510	0.72
780.	20.09520	C.07070	4.0418E-05	1.2555	0.72
800.	19.72153	0.07163	4.0928E-05	1.2598	0.72
820.	19.36145	0.07255	4.1434E-05	1.2641	0.72
840.	19.01422	0.07347	4.1935E-05	1.2682	C.72
860.	18.67920	C.07438	4.2431E-05	1.2723	0.73
880.	18.35573	C.07529	4.2923E-05	1.2763	C.73
900.	18.04324	C.07618	4.3411E-05	1.2802	0.73
920.	17.74120	C.07708	4.3894E-05	1.2841	0.73
940.	17.44907	0.07796	4.4373E-05	1.2879	C.73
960.	17.16637	C.07884	4.4848E-05	1.2917	0.73
980.	16.89268	C.07971	4.5318E-05	1.2955	C.74
1000.	16.62756	C.08058	4.5785E-05	1.2992	0.74

* CC2 * P= 45. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	78.70793	0.02372	1.8903E-05	1.1227	0.89
100.	71.92393	0.02520	1.9583E-05	1.1061	0.86
120.	66.50095	0.02669	2.0273E-05	1.0955	0.83
140.	62.04518	0.02818	2.0967E-05	1.0894	0.81
160.	58.29863	0.02968	2.1664E-05	1.0867	0.79
180.	55.08694	0.03117	2.2366E-05	1.0865	0.78
200.	52.28926	0.03266	2.3054E-05	1.0882	0.77
220.	49.81944	0.03415	2.3743E-05	1.0915	0.76
240.	47.61472	0.03563	2.4426E-05	1.0958	0.75
260.	45.62825	0.03710	2.5108E-05	1.1010	0.75
280.	43.82434	0.03856	2.5781E-05	1.1068	0.74
300.	42.17540	0.04001	2.6447E-05	1.1131	0.74
320.	40.65952	0.04146	2.7107E-05	1.1197	0.73
340.	39.25914	0.04289	2.7760E-05	1.1265	0.73
360.	37.96002	0.04431	2.8406E-05	1.1335	0.73
380.	36.75905	0.04572	2.9044E-05	1.1404	0.72
400.	35.21030	0.04712	2.9675E-05	1.1474	0.72
420.	34.21753	0.04851	3.0300E-05	1.1544	0.72
440.	33.27686	0.04988	3.0917E-05	1.1613	0.72
460.	32.38467	0.05125	3.1527E-05	1.1681	0.72
480.	31.53755	0.05260	3.2130E-05	1.1748	0.72
500.	30.73244	0.05394	3.2726E-05	1.1813	0.72
520.	29.96642	0.05526	3.3316E-05	1.1877	0.72
540.	29.23685	0.05658	3.3899E-05	1.1939	0.72
560.	28.54131	0.05788	3.4476E-05	1.2000	0.71
580.	27.87756	0.05918	3.5046E-05	1.2059	0.71
600.	27.24355	0.06046	3.5611E-05	1.2116	0.71
620.	26.63734	0.06173	3.6169E-05	1.2172	0.71
640.	26.05722	0.06298	3.6721E-05	1.2226	0.71
660.	25.50157	0.06423	3.7268E-05	1.2279	0.71
680.	24.96892	0.06547	3.7809E-05	1.2330	0.71
700.	24.45787	0.06669	3.8345E-05	1.2379	0.71
720.	23.96715	0.06790	3.8875E-05	1.2427	0.71
740.	23.49562	0.06892	3.9400E-05	1.2474	0.71
760.	23.04216	0.06986	3.9919E-05	1.2520	0.72
780.	22.60579	0.07080	4.0434E-05	1.2564	0.72
800.	22.18553	0.07172	4.0944E-05	1.2607	0.72
820.	21.78056	0.07265	4.1449E-05	1.2649	0.72
840.	21.39005	0.07356	4.1949E-05	1.2690	0.72
860.	21.01324	0.07447	4.2445E-05	1.2731	0.73
880.	20.64943	0.07537	4.2937E-05	1.2770	0.73
900.	20.29796	0.07627	4.3424E-05	1.2809	0.73
920.	19.95821	0.07716	4.3906E-05	1.2847	0.73
940.	19.62962	0.07804	4.4385E-05	1.2885	0.73
960.	19.31166	0.07892	4.4859E-05	1.2923	0.73
980.	19.00381	0.07979	4.5330E-05	1.2960	0.74
1000.	18.70560	0.08065	4.5796E-05	1.2997	0.74

* CO2 * P= 50. BAR

T GRAD-C	RHO KG/M**3	LAMBDA W/(M*GRD)	ETA KG/(M*S)	CP KJ/(KG*GRD)	PR -
0.	-	-	-	-	-
20.	-	-	-	-	-
40.	-	-	-	-	-
60.	-	-	-	-	-
80.	88.84328	0.02412	1.9091E-05	1.1491	0.91
100.	80.91434	0.02558	1.9750E-05	1.1285	0.87
120.	74.62013	0.02705	2.0423E-05	1.1147	0.84
140.	69.48129	0.02852	2.1102E-05	1.1059	0.82
160.	65.18449	0.03000	2.1786E-05	1.1010	0.80
180.	61.51913	0.03148	2.2470E-05	1.0990	0.78
200.	58.33951	0.03295	2.3154E-05	1.0992	0.77
220.	55.54239	0.03443	2.3835E-05	1.1011	0.76
240.	53.05290	0.03589	2.4513E-05	1.1044	0.75
260.	50.81546	0.03735	2.5185E-05	1.1087	0.75
280.	48.78786	0.03880	2.5852E-05	1.1137	0.74
300.	46.93759	0.04025	2.6513E-05	1.1193	0.74
320.	45.23915	0.04168	2.7168E-05	1.1252	0.73
340.	43.67198	0.04310	2.7817E-05	1.1315	0.73
360.	42.21965	0.04452	2.8459E-05	1.1380	0.73
380.	40.86190	0.04592	2.9093E-05	1.1446	0.73
400.	39.10091	0.04731	2.9722E-05	1.1512	0.72
420.	38.00133	0.04869	3.0343E-05	1.1579	0.72
440.	36.95898	0.05006	3.0957E-05	1.1645	0.72
460.	35.97000	0.05142	3.1565E-05	1.1710	0.72
480.	35.03070	0.05276	3.2166E-05	1.1774	0.72
500.	34.13773	0.05410	3.2760E-05	1.1838	0.72
520.	33.28793	0.05542	3.3348E-05	1.1900	0.72
540.	32.47842	0.05673	3.3929E-05	1.1960	0.72
560.	31.70656	0.05803	3.4504E-05	1.2019	0.71
580.	30.96985	0.05931	3.5073E-05	1.2077	0.71
600.	30.26605	0.06059	3.5636E-05	1.2133	0.71
620.	29.59308	0.06186	3.6193E-05	1.2188	0.71
640.	28.94901	0.06311	3.6745E-05	1.2241	0.71
660.	28.33203	0.06435	3.7290E-05	1.2293	0.71
680.	27.74055	0.06558	3.7830E-05	1.2343	0.71
700.	27.17303	0.06680	3.8365E-05	1.2391	0.71
720.	26.62807	0.06801	3.8894E-05	1.2439	0.71
740.	26.10437	0.06903	3.9418E-05	1.2485	0.71
760.	25.60075	0.06997	3.9937E-05	1.2530	0.72
780.	25.11606	0.07090	4.0451E-05	1.2573	0.72
800.	24.64928	0.07182	4.0960E-05	1.2616	0.72
820.	24.19946	0.07274	4.1464E-05	1.2657	0.72
840.	23.76566	0.07365	4.1964E-05	1.2698	0.72
860.	23.34709	0.07456	4.2459E-05	1.2738	0.73
880.	22.94296	0.07546	4.2950E-05	1.2777	0.73
900.	22.55252	0.07635	4.3436E-05	1.2816	0.73
920.	22.17509	0.07724	4.3919E-05	1.2854	0.73
940.	21.81007	0.07812	4.4397E-05	1.2891	0.73
960.	21.45682	0.07899	4.4871E-05	1.2928	0.73
980.	21.11482	0.07986	4.5341E-05	1.2966	0.74
1000.	20.78352	0.08073	4.5807E-05	1.3002	0.74