Carbon dioxide

Other names:	Anhydride carbonique
	CARBONIC ANHYDRIDE
	CO2
	Carbon oxide (CO2)
	Carbonic acid anhydride
	Carbonic acid, gas
	Carbonica
	Cardice
	Dricold
	Drikold
	Dry ice
	Khladon 744
	Kohlendioxyd
	Kohlensaure
	R 744
	UN 1013
	UN 1845
	UN 2187
Inchi:	InChI=1S/CO2/c2-1-3
InchiKey:	CURLTUGMZLYLDI-UHFFFAOYSA-N
Formula:	CO2
SMILES:	O=C=O
Mol. weight [g/mol]:	44.01
CAS:	124-38-9

Physical Properties

Property code	Value	Unit	Source
af	0.2390		KDB
affp	540.50	kJ/mol	NIST Webbook
basg	515.80	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
ea	-0.60	eV	NIST Webbook
ea	-1.60 ± 0.10	eV	NIST Webbook
gf	-394.60	kJ/mol	KDB
gyrad	0.9920		KDB
hf	-393.80	kJ/mol	KDB
hf	-393.51 ± 0.13	kJ/mol	NIST Webbook

hfus	11.09	kJ/mol	Joback Method
hvap	29.78	kJ/mol	Joback Method
ie	13.77 ± 0.00	eV	NIST Webbook
ie	13.78	eV	NIST Webbook
ie	13.78	eV	NIST Webbook
ie	13.79	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.78	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.77	eV	NIST Webbook
ie	13.89 ± 0.03	eV	NIST Webbook
ie	13.79 ± 0.05	eV	NIST Webbook
ie	13.77	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.00 ± 1.00	eV	NIST Webbook
ie	13.79	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.77 ± 0.00	eV	NIST Webbook
ie	13.90 ± 0.20	eV	NIST Webbook
ie	13.78 ± 0.01	eV	NIST Webbook
ie	13.78	eV	NIST Webbook
ie	13.77 ± 0.00	eV	NIST Webbook
ie	13.80 ± 0.01	eV	NIST Webbook
ie	13.79 ± 0.01	eV	NIST Webbook
ie	13.78 ± 0.01	eV	NIST Webbook
ie	13.77	eV	NIST Webbook
ie	13.75 ± 0.05	eV	NIST Webbook
ie	13.83 ± 0.05	eV	NIST Webbook
ie	13.77 ± 0.03	eV	NIST Webbook
log10ws	0.79		Crippen Method
logp	-0.584		Crippen Method
mcvol	28.090	ml/mol	McGowan Method
pc	7382.50 ± 0.50	kPa	NIST Webbook
pc	7340.00 ± 50.00	kPa	NIST Webbook
pc	7380.00	kPa	Critical Temperatures and Pressures of Several Binary and Ternary Mixtures Concerning the Alkylation of 2-Methylpropane with 1-Butene in the Presence of Methane or Carbon Dioxide

pc	7380.00	kPa	Critical Properties of the Reacting Mixture in the Selective Oxidation of Cyclohexane by Oxygen in the Presence of Carbon Dioxide
pc	7420.00	kPa	Critical Properties of the Reacting Mixture in the Esterification of Acetic Acid with Ethanol
pc	7420.00	kPa	Critical Properties of Binary and Ternary Mixtures of Hexane + Methanol, Hexane + Carbon Dioxide, Methanol + Carbon Dioxide and Hexane + Carbon Dioxide + Methanol
pc	7375.00	kPa	KDB
pc	7360.00	kPa	Phase Behaviors, Density, and Isothermal Compressibility of Styrene + CO2, Ethylbenzene + CO2, and Ethylbezene + Styrene + CO2 Systems
pc	7380.00 ± 15.00	kPa	NIST Webbook
pt	518.50	kPa	KDB
pt	518.50 ± 0.50	kPa	NIST Webbook
rhoc	466.50 ± 2.20	kg/m3	NIST Webbook
rhoc	468.26 ± 1.50	kg/m3	NIST Webbook
rhoc	466.06 ± 0.31	kg/m3	NIST Webbook
rhoc	475.30 ± 8.80	kg/m3	NIST Webbook
rinpol	152.00		NIST Webbook
rinpol	153.00		NIST Webbook
rinpol	154.00		NIST Webbook
rinpol	152.00		NIST Webbook
sgb	213.78 ± 0.01	J/mol×K	NIST Webbook
tb	194.70	K	KDB
tc	304.30	K	Validation of a New Apparatus Using the Dynamic Method for Determining the Critical Properties of Binary Gas/Gas Mixtures
tc	304.23	K	NIST Webbook
tc	304.35 ± 0.40	K	NIST Webbook
tc	304.10 ± 0.10	K	NIST Webbook
tc	304.18 ± 0.04	K	NIST Webbook
tc	304.30	K	Development of a Predictive Equation of State for CO2 + Ethyl Ester Mixtures Based on Critical Points Measurements

tc	304.14	K	KDB
tc	304.20 ± 0.02	K	NIST Webbook
tf	216.58	K	KDB
tt	216.58 ± 0.03	K	NIST Webbook
tt	216.58	K	KDB
tt	216.60	K	Solid-liquid equilibria measurements of the carbondioxide + 2,3,3,3-tetrafluoroprop-1-ene and carbondioxide + trans-1,3,3,3-tetrafluoropropene mixtures
tt	216.58 ± 0.01	K	NIST Webbook
tt	216.52	K	Solid Liquid Equilibria for the CO2 + R23 and N2O + R23 Systems
vc	0.094	m3/kmol	KDB
vc	0.092 ± 0.001	m3/kmol	NIST Webbook
zc	0.2741450		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	41.25	J/mol×K	309.97	Joback Method
cpg	32.51	J/mol×K	203.15	Joback Method
cpg	34.58	J/mol×K	224.51	Joback Method
cpg	36.48	J/mol×K	245.88	Joback Method
cpg	38.22	J/mol×K	267.24	Joback Method
cpg	39.81	J/mol×K	288.60	Joback Method
cpg	42.55	J/mol×K	331.33	Joback Method
dvisc	0.0000452	Pa×s	1100.00	Viscosity of H2-CO2 Mixtures at (500, 800, and 1100) K
dvisc	0.0000236	Pa×s	500.00	Viscosity of H2-CO2 Mixtures at (500, 800, and 1100) K
dvisc	0.0000356	Pa×s	800.00	Viscosity of H2-CO2 Mixtures at (500, 800, and 1100) K
hsubt	25.20	kJ/mol	175.00	NIST Webbook
hsubt	26.10	kJ/mol	207.00	NIST Webbook
hsubt	27.20 ± 0.40	kJ/mol	86.00	NIST Webbook
hsubt	25.90	kJ/mol	188.50	NIST Webbook

hsubt	26.30	kJ/mol	167.00	NIST Webbook
hvapt	16.50	kJ/mol	285.00	NIST Webbook
hvapt	15.33	kJ/mol	216.60	KDB
hvapt	28.84	kJ/mol	82.30	Measurements of enthalpy of sublimation of Ne, N2, O2, Ar, CO2, Kr, Xe, and H2O using a double paddle oscillator
hvapt	16.70	kJ/mol	288.50	NIST Webbook
hvapt	16.40	kJ/mol	244.50	NIST Webbook
pvap	6436.90	kPa	298.17	Vapor-liquid equilibrium data for the carbon dioxide and nitrogen (CO2+N2) system at the temperatures 223, 270, 298 and 303 K and pressures up to 18 MPa
pvap	1964.80	kPa	253.15	Vapor liquid equilibria for the carbon dioxide + propane system over a temperature range from 253.15 to 323.15K
pvap	2641.80	kPa	263.15	Vapor liquid equilibria for the carbon dioxide + propane system over a temperature range from 253.15 to 323.15K
pvap	3478.50	kPa	273.15	Vapor liquid equilibria for the carbon dioxide + propane system over a temperature range from 253.15 to 323.15K
pvap	4497.80	kPa	283.15	Vapor liquid equilibria for the carbon dioxide + propane system over a temperature range from 253.15 to 323.15K

pvap	5723.70	kPa	293.15	Vapor liquid equilibria for the carbon dioxide + propane system over a temperature range from 253.15 to 323.15K
pvap	7206.20	kPa	303.15	Vapor liquid equilibria for the carbon dioxide + propane system over a temperature range from 253.15 to 323.15K
pvap	682.90	kPa	223.14	Vapor-liquid equilibrium data for the carbon dioxide and nitrogen (CO2+N2) system at the temperatures 223, 270, 298 and 303 K and pressures up to 18 MPa
pvap	6323.00	kPa	298.10	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems
pvap	7210.50	kPa	303.16	Vapor-liquid equilibrium data for the carbon dioxide and nitrogen (CO2+N2) system at the temperatures 223, 270, 298 and 303 K and pressures up to 18 MPa

pvap	1009.00	kPa	233.19	Phase equilibrium data for binary mixtures of carbon dioxide with {1,1,2,3,3,3-hexafluoro-1-propene or 2,2,3-trifluoro-3-(trifluoromethyl)oxirane} at temperatures between (233 and 273) K
pvap	1432.00	kPa	243.22	Phase equilibrium data for binary mixtures of carbon dioxide with {1,1,2,3,3,3-hexafluoro-1-propene or 2,2,3-trifluoro-3-(trifluoromethyl)oxirane} at temperatures between (233 and 273) K
pvap	1970.00	kPa	253.21	Phase equilibrium data for binary mixtures of carbon dioxide with {1,1,2,3,3,3-hexafluoro-1-propene or 2,2,3-trifluoro-3-(trifluoromethyl)oxirane} at temperatures between (233 and 273) K
pvap	2645.00	kPa	263.21	Phase equilibrium data for binary mixtures of carbon dioxide with {1,1,2,3,3,3-hexafluoro-1-propene or 2,2,3-trifluoro-3-(trifluoromethyl)oxirane} at temperatures between (233 and 273) K
pvap	3473.00	kPa	273.19	Phase equilibrium data for binary mixtures of carbon dioxide with {1,1,2,3,3,3-hexafluoro-1-propene or 2,2,3-trifluoro-3-(trifluoromethyl)oxirane} at temperatures between (233 and 273) K

pvap	3487.00	kPa	273.15	Phase equilibrium and critical point data for ethylene and chlorodifluoromethane binary mixtures using a new static-analytic apparatus
pvap	410.40	kPa	213.22	Thermodynamics of the carbon dioxide plus argon (CO2 + Ar) system: An improved reference mixture model and measurements of vapor-liquid, vapor-solid, liquid-solid and vapor-liquid-solid phase equilibrium data at the temperatures 213 to 299 K and pressures up to 16 MPa
pvap	681.80	kPa	223.15	Thermodynamics of the carbon dioxide plus argon (CO2 + Ar) system: An improved reference mixture model and measurements of vapor-liquid, vapor-solid, liquid-solid and vapor-liquid-solid phase equilibrium data at the temperatures 213 to 299 K and pressures up to 16 MPa

pvap	1426.30	kPa	243.13	Thermodynamics of the carbon dioxide plus argon (CO2 + Ar) system: An improved reference mixture model and measurements of vapor-liquid, vapor-solid, liquid-solid and vapor-liquid-solid phase equilibrium data at the temperatures 213 to 299 K and pressures up to 16 MPa	
pvap	2646.70	kPa	263.13	Thermodynamics of the carbon dioxide plus argon (CO2 + Ar) system: An improved reference mixture model and measurements of vapor-liquid, vapor-solid, liquid-solid and vapor-liquid-solid phase equilibrium data at the temperatures 213 to 299 K and pressures up to 16 MPa	
pvap	3491.30	kPa	273.22	Thermodynamics of the carbon dioxide plus argon (CO2 + Ar) system: An improved reference mixture model and measurements of vapor-liquid, vapor-solid, liquid-solid and vapor-liquid-solid phase equilibrium data at the temperatures 213 to 299 K and pressures up to 16 MPa	

pvap	4502.30	kPa	283.15	Thermodynamics of the carbon dioxide plus argon (CO2 + Ar) system: An improved reference mixture model and measurements of vapor-liquid, vapor-solid, liquid-solid and vapor-liquid-solid phase equilibrium data at the temperatures 213 to 299 K and pressures up to 16 MPa	
pvap	6595.00	kPa	299.22	Thermodynamics of the carbon dioxide plus argon (CO2 + Ar) system: An improved reference mixture model and measurements of vapor-liquid, vapor-solid, liquid-solid and vapor-liquid-solid phase equilibrium data at the temperatures 213 to 299 K and pressures up to 16 MPa	
pvap	2294.00	kPa	258.44	(Vapor + liquid) equilibrium data for (carbon dioxide + 1,1-difluoroethane) system at temperatures from (258 to 343) K and pressures up to about 8 MPa	
pvap	3977.00	kPa	278.25	(Vapor + liquid) equilibrium data for (carbon dioxide + 1,1-difluoroethane) system at temperatures from (258 to 343) K and pressures up to about 8 MPa	

pvap	6502.60	kPa	298.84	(Vapor + liquid) equilibrium data for (carbon dioxide + 1,1-difluoroethane) system at temperatures from (258 to 343) K and pressures up to about 8 MPa
pvap	6020.00	kPa	295.45	A synthetic-dynamic method for water solubility measurements in high pressure CO2 using ATR FTIR spectroscopy
pvap	6240.00	kPa	297.05	A synthetic-dynamic method for water solubility measurements in high pressure CO2 using ATR FTIR spectroscopy
pvap	6520.00	kPa	299.05	A synthetic-dynamic method for water solubility measurements in high pressure CO2 using ATR FTIR spectroscopy
pvap	7090.00	kPa	302.65	A synthetic-dynamic method for water solubility measurements in high pressure CO2 using ATR FTIR spectroscopy
pvap	7180.00	kPa	303.25	A synthetic-dynamic method for water solubility measurements in high pressure CO2 using ATR FTIR spectroscopy
pvap	3476.00	kPa	272.78	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO2 or CHF3)

pvap	3958.00	kPa	277.83	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO2 or CHF3)
pvap	4487.00	kPa	282.87	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO2 or CHF3)
pvap	5069.00	kPa	287.92	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO2 or CHF3)
pvap	5705.00	kPa	292.95	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO2 or CHF3)
pvap	6404.00	kPa	297.99	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO2 or CHF3)
pvap	7176.00	kPa	303.03	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO2 or CHF3)
pvap	1426.50	kPa	243.15	Experimental research on (vapor + liquid) equilibria for the {trifluoroiodomethane (CF3I) + carbon dioxide (CO2)} system from 243.150 to 273.150 K
pvap	1968.40	kPa	253.15	Experimental research on (vapor + liquid) equilibria for the {trifluoroiodomethane (CF3I) + carbon dioxide (CO2)} system from 243.150 to 273.150 K

pvap	2647.50	kPa	263.15	Experimental research on (vapor + liquid) equilibria for the {trifluoroiodomethane (CF3I) + carbon dioxide (CO2)} system from 243.150 to 273.150 K
pvap	3483.80	kPa	273.15	Experimental research on (vapor + liquid) equilibria for the {trifluoroiodomethane (CF3I) + carbon dioxide (CO2)} system from 243.150 to 273.150 K
pvap	552.50	kPa	218.15	Measurement and modelling of the vapor-liquid equilibrium of (CO2 + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa
pvap	1004.40	kPa	233.15	Measurement and modelling of the vapor-liquid equilibrium of (CO2 + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa
pvap	1428.00	kPa	243.15	Measurement and modelling of the vapor-liquid equilibrium of (CO2 + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa
pvap	2293.70	kPa	258.15	Measurement and modelling of the vapor-liquid equilibrium of (CO2 + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa

pvap	3484.60	kPa	273.15	Measurement and modelling of the vapor-liquid equilibrium of (CO2 + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa
pvap	5089.60	kPa	288.19	Measurement and modelling of the vapor-liquid equilibrium of (CO2 + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa
pvap	7171.20	kPa	302.94	Measurement and modelling of the vapor-liquid equilibrium of (CO2 + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa
pvap	3485.70	kPa	273.16	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	3975.00	kPa	278.20	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	4502.00	kPa	283.15	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	5087.00	kPa	288.15	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination

pvap	5726.40	kPa	293.14	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	6430.10	kPa	298.15	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	7212.80	kPa	303.19	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	7290.90	kPa	303.64	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	7326.10	kPa	303.85	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	7358.80	kPa	304.04	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	3485.90	kPa	273.17	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination

pvap	3977.00	kPa	278.20	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	4500.50	kPa	283.15	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	5090.50	kPa	288.15	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	5726.50	kPa	293.14	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	6436.10	kPa	298.15	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	7214.40	kPa	303.15	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	7297.40	kPa	303.65	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination

pvap	7329.00	kPa	303.85	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	7360.50	kPa	304.04	A novel technique based in a cylindrical microwave resonator for high pressure phase equilibrium determination
pvap	3962.00	kPa	278.15	Experimental Solubility Data for Binary Mixtures of Ethane and 2,2,4-Trimethylpentane at Pressures up to 6 MPa Using a New Variable-Volume Sapphire Cell
pvap	5627.00	kPa	293.00	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems
pvap	4961.00	kPa	287.11	Phase Equilibrium and Liquid Viscosity of CO2 + n-Dodecane Mixtures between 283 and 353 K
pvap	5555.00	kPa	291.84	Phase Equilibrium and Liquid Viscosity of CO2 + n-Dodecane Mixtures between 283 and 353 K
pvap	6214.00	kPa	296.64	Phase Equilibrium and Liquid Viscosity of CO2 + n-Dodecane Mixtures between 283 and 353 K

pvap	6928.00	kPa	301.38	Phase Equilibrium and Liquid Viscosity of CO2 + n-Dodecane Mixtures between 283 and 353 K
pvap	1000.72	kPa	233.07	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	1000.81	kPa	233.07	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	1420.40	kPa	243.01	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	1420.51	kPa	243.01	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	1974.16	kPa	253.22	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	1974.47	kPa	253.22	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	2661.57	kPa	263.31	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	2661.88	kPa	263.32	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus

pvap	3522.07	kPa	273.55	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	3522.39	kPa	273.56	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	4543.19	kPa	283.51	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	4543.58	kPa	283.52	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	5720.90	kPa	293.08	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	5721.42	kPa	293.09	Measurement of Vapor Pressures and Saturated Liquid Densities of Pure Fluids with a New Apparatus
pvap	3960.00	kPa	278.15	Isothermal Vapor-Liquid Equilibria for the Binary System of Carbon Dioxide (CO2) + 1,1,1,2,3,3,3-Heptafluoropropane (R-227ea)
pvap	5080.00	kPa	288.15	Isothermal Vapor-Liquid Equilibria for the Binary System of Carbon Dioxide (CO2) + 1,1,1,2,3,3,3-Heptafluoropropane (R-227ea)

pvap	6425.00	kPa	298.15	Isothermal Vapor-Liquid Equilibria for the Binary System of Carbon Dioxide (CO2) + 1,1,1,2,3,3,3-Heptafluoropropane (R-227ea)
pvap	1672.60	kPa	248.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	3485.10	kPa	273.15	Vapor Liquid Equilibrium for Several Compounds Relevant to the Biofuels Industry Modeled with the Wilson Equation
pvap	4406.00	kPa	283.00	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems
pvap	3387.00	kPa	273.00	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems
pvap	4392.00	kPa	282.15	Phase Equilibrium and Liquid Viscosity of CO2 + n-Dodecane Mixtures between 283 and 353 K

rhog	1.56	kg/m3	344.15	High-pressure densities and interfacial tensions of binary systems containing carbon dioxide + n-alkanes: (n-Dodecane, n-tridecane, n-tetradecane)
srf	0.00	N/m	273.20	KDB

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	2.05818e+01
Coeff. B	-3.08771e+03
Coeff. C	-1.26700e+00
Temperature range (K), min.	153.41
Temperature range (K), max.	264.19

Datasets

Kinematic viscosity, m2/s

Temperature, K - Gas	Pressure, kPa - Gas	Kinematic viscosity, m2/s - Gas
220.00	195.46	0.0000024
220.00	226.71	0.0000020
220.00	254.44	0.0000018
220.00	288.21	0.0000016
220.00	324.47	0.0000014
220.00	362.71	0.0000012
220.00	393.15	0.0000011
220.00	425.51	0.0000010
220.00	449.74	0.0000010
220.00	479.78	0.0000009

235.00	224.78	0.0000023
235.00	359.42	0.0000014
235.00	452.88	0.0000011
235.00	545.18	0.0000009
235.00	638.46	0.0000008
235.00	723.88	0.0000007
235.00	803.31	0.0000006
250.00	274.20	0.0000022
250.00	372.33	0.0000016
250.00	491.25	0.0000012
250.00	595.84	0.0000010
250.00	702.28	0.0000008
250.00	818.89	0.0000007
250.00	953.03	0.0000006
250.00	1060.25	0.0000005
250.00	1177.57	0.0000004
250.00	1291.60	0.0000004
250.00	1438.24	0.0000004
270.00	196.61	0.0000035
270.00	354.95	0.0000020
270.00	526.01	0.0000013
270.00	705.02	0.0000009
270.00	898.25	0.0000007
270.00	1076.54	0.0000006
270.00	1287.09	0.0000005
270.00	1446.70	0.0000004
270.00	1630.02	0.0000004
270.00	1846.01	0.0000003
270.00	2079.64	0.0000003
270.00	2316.11	0.0000002
270.00	2509.61	0.0000002
285.00	371.48	0.0000021
285.00	575.25	0.0000013
285.00	787.74	0.0000009
285.00	1012.98	0.0000007
285.00	1228.51	0.0000006
285.00	1500.40	0.0000005
285.00	1707.23	0.0000004
285.00	1947.24	0.0000004
285.00	2221.25	0.0000003
285.00	2559.66	0.0000003
285.00	2841.89	0.0000002
285.00	3057.76	0.0000002
300.00	313.43	0.0000027

300.00	531.89	0.0000016
300.00	748.54	0.0000011
300.00	993.26	0.0000008
300.00	1237.01	0.0000007
300.00	1526.14	0.0000005
300.00	1747.76	0.0000005
300.00	1991.46	0.0000004
300.00	2272.21	0.0000003
300.00	2577.86	0.0000003
300.00	2893.94	0.0000003
300.00	3145.79	0.0000002
304.77	317.81	0.0000028
304.77	527.05	0.0000016
304.77	745.25	0.0000012
304.77	979.77	0.0000009
304.77	1201.73	0.0000007
304.77	1478.86	0.0000006
304.77	1699.38	0.0000005
304.77	1949.98	0.0000004
304.77	2235.18	0.0000004
304.77	2552.72	0.0000003
304.77	2881.02	0.0000003
304.77	3135.88	0.0000002
310.00	342.08	0.0000027
310.00	552.05	0.0000016
310.00	773.76	0.0000011
310.00	1018.04	0.0000009
310.00	1259.27	0.0000007
310.00	1549.04	0.0000006
310.00	1786.58	0.0000005
310.00	2055.58	0.0000004
310.00	2362.96	0.0000003
310.00	2708.78	0.0000003
310.00	3077.99	0.0000003
330.00	201.27	0.0000052
330.00	402.42	0.0000026
330.00	626.86	0.0000016
330.00	846.53	0.0000012
330.00	1059.35	0.0000009
330.00	1332.98	0.0000007
330.00	1559.26	0.0000006
330.00	1813.09	0.0000005
330.00	2103.20	0.0000005
330.00	2423.40	0.0000004

330.00	2778.74	0.0000003
330.00	3067.62	0.0000003
350.00	234.16	0.0000050
350.00	440.84	0.0000026
350.00	660.10	0.0000017
350.00	905.02	0.0000013
350.00	1143.54	0.0000010
350.00	1347.77	0.0000008
350.00	1584.41	0.0000007
350.00	1872.95	0.0000006
350.00	2228.51	0.0000005
350.00	2447.32	0.0000004
350.00	2827.17	0.0000004
350.00	3133.84	0.0000003
370.00	335.49	0.0000038
370.00	537.70	0.0000024
370.00	749.31	0.0000017
370.00	964.83	0.0000013
370.00	1228.54	0.0000010
370.00	1449.30	0.0000009
370.00	1714.08	0.0000007
370.00	2019.04	0.0000006
370.00	2382.70	0.0000005
370.00	2771.65	0.0000004
370.00	3095.89	0.0000004

Reference *https://www.doi.org/10.1016/j.jct.2007.07.002*

Mass density, kg/m3

Temperature, K - Gas	Pressure, kPa - Gas	Mass density, kg/m3 - Gas
273.15	1001.00	21.2
273.15	2001.00	45.7
273.15	3001.00	77.3
273.15	3300.00	89.9
283.15	1000.00	20.4
283.15	2001.00	43.1
283.15	3001.00	70.9
283.15	4000.00	108.4
283.15	4400.00	130.1
293.15	1011.00	19.8

293.15	2001.00	41.0
293.15	3001.00	66.2
293.15	4000.00	97.3
293.15	5000.00	140.4
293.15	5600.00	182.2

Reference *https://www.doi.org/10.1021/je300590v*

Mass density, kg/m3

Pressure, kPa - Fluid (supercritical or subcritical phases)	Temperature, K - Fluid (supercritical or subcritical phases)	Mass density, kg/m3 - Fluid (supercritical or subcritical phases)
6100.00	291.30	817.0
7100.00	291.50	834.0
8100.00	291.70	849.0
9200.00	291.90	861.0
10200.00	292.00	872.0
15200.00	292.10	916.0
20200.00	292.10	948.0
25300.00	292.10	975.0
30100.00	292.10	997.0

Reference *https://www.doi.org/10.1016/j.fluid.2010.07.009*

Temperature, K	Pressure, kPa	Mass density, kg/m3
323.20	10968.00	497.981
323.25	12967.00	633.58
323.24	14966.00	698.2
323.25	16965.00	739.597
323.24	18962.00	770.445
323.26	20966.00	795.018
323.25	22962.00	815.681
323.24	24961.00	833.514
323.25	26959.00	849.181
323.25	28037.00	856.967

Reference *https://www.doi.org/10.1016/j.jct.2015.07.014*

Temperature, K	Pressure, kPa	Mass density, kg/m3

308.00	10000.00	714.84
308.00	12000.00	768.42
308.00	15000.00	816.06
308.00	18000.00	848.87
308.00	21000.00	874.4
318.00	10000.00	502.57
318.00	12000.00	659.73
318.00	15000.00	743.17
318.00	18000.00	790.18
318.00	21000.00	823.71
328.00	10000.00	326.4
328.00	12000.00	506.85
328.00	15000.00	654.94
328.00	18000.00	724.13
328.00	21000.00	768.74

Reference *https://www.doi.org/10.1016/j.tca.2011.01.039*

Temperature, K	Pressure, kPa	Mass density, kg/m3
304.29	10390.00	768.95
398.60	20324.00	391.9
469.77	20740.00	272.48
304.29	21349.00	895.09
304.29	31385.00	950.66
469.78	36325.00	466.7
398.62	36685.00	645.59
398.62	36789.00	646.63
304.29	42233.00	992.73
398.61	52521.00	764.26
469.73	54964.00	621.41
304.29	56603.00	1034.73
304.29	69065.00	1063.89
469.74	69479.00	702.01
398.61	70281.00	846.15
304.30	86449.00	1097.67
398.61	86718.00	900.46
469.75	86961.00	773.96
469.74	103717.00	827.38
398.61	103727.00	944.72
469.74	103847.00	827.75
304.30	104549.00	1127.06
469.76	116457.00	861.27
398.61	118142.00	975.99

304.30	119826.00	1148.82
398.62	119829.00	979.32
304.30	136467.00	1169.87
469.76	137604.00	908.75
398.62	137833.00	1012.46

Reference *https://www.doi.org/10.1021/acs.jced.6b00138*

Pressure, kPa	Temperature, K	Mass density, kg/m3
10000.00	303.15	770.5
20000.00	303.15	890.1
30000.00	303.15	949.2
40000.00	303.15	989.1
50000.00	303.15	1020.0
60000.00	303.15	1045.8
70000.00	303.15	1068.0
10000.00	313.15	628.9
20000.00	313.15	839.3
30000.00	313.15	909.2
40000.00	313.15	955.5
50000.00	313.15	990.5
60000.00	313.15	1019.0
70000.00	313.15	1043.5

Reference *https://www.doi.org/10.1021/acs.jced.9b00311*

Temperature, K	Pressure, kPa	Mass density, kg/m3
310.00	1998.00	37.614
310.00	5002.00	116.171
310.00	10014.00	686.16
310.00	19987.00	856.152
310.00	29966.00	921.817
310.00	49929.00	999.875
310.00	75042.00	1062.566
310.00	100055.00	1108.29
310.00	125012.00	1144.813
310.00	139289.00	1162.991
310.00	149970.00	1175.569
310.00	159844.00	1186.558
350.00	2011.00	32.349
350.00	5001.00	89.638
350.00	9986.00	228.244

350.00	19981.00	613.586
350.00	30013.00	758.897
350.00	50017.00	884.809
350.00	74904.00	969.636
350.00	99977.00	1027.564
350.00	124895.00	1071.804
400.00	999.00	13.455
400.00	1998.00	27.43
400.00	4998.00	72.779
400.00	10021.00	161.96
400.00	14986.00	267.104
400.00	20028.00	381.082
400.00	25054.00	482.518
400.00	29994.00	561.435
400.00	35005.00	623.368
400.00	39985.00	672.037
400.00	49967.00	745.445
400.00	59920.00	799.163
400.00	69997.00	842.031
400.00	79880.00	876.766
400.00	89950.00	906.957
400.00	99838.00	932.857
400.00	109931.00	956.349
400.00	120079.00	977.599
400.00	126010.00	989.102
400.00	139527.00	1013.251
450.00	4998.00	62.269
450.00	9998.00	131.635
450.00	19983.00	284.802
450.00	29992.00	430.142
450.00	49933.00	626.132
450.00	75024.00	762.158
450.00	99833.00	847.163
450.00	122193.00	903.768

Reference *https://www.doi.org/10.1021/je1001158*

Temperature, K	Pressure, kPa	Mass density, kg/m3
343.13	761.77	12.0399
343.13	761.77	12.0258
343.13	405.34	6.3329
343.13	405.34	6.3325
343.13	214.49	3.3311

343.13	2584.25	43.5107
343.13	4543.03	82.704
343.13	214.49	3.3345
343.13	2584.25	43.3646
343.13	4543.03	82.3364
343.13	5888.24	114.0166
343.13	5888.24	113.4483
343.13	556.21	8.7319
343.13	1040.75	16.6004
343.13	1416.95	22.8886
343.13	1919.84	31.5581
343.13	7469.20	157.1781
343.13	556.21	8.7265
343.13	1040.75	16.5719
343.13	1416.95	22.8367
343.13	1919.84	31.4693
343.13	7469.20	156.3104
343.13	295.01	4.5929
343.13	3447.34	59.9881
343.13	295.01	4.5951
343.13	3447.34	59.7539

Reference *https://www.doi.org/10.1021/je100148h*

Temperature, K	Pressure, kPa	Mass density, kg/m3
313.15	340.00	8.2
313.15	690.00	15.1
313.15	1030.00	21.4
313.15	1380.00	26.7
313.15	1720.00	34.2
313.15	2070.00	38.6
313.15	2410.00	48.4
313.15	2760.00	56.7
313.15	3100.00	64.1
313.15	3450.00	72.9
313.15	3800.00	80.9
313.15	4140.00	87.5
313.15	4480.00	99.4
313.15	4830.00	109.8
313.15	5170.00	122.0
313.15	5510.00	134.0
313.15	5860.00	145.4
313.15	6200.00	158.0

313.15	6550.00	175.1
313.15	6890.00	194.5
313.15	7240.00	218.9
313.15	7580.00	239.9
313.15	7930.00	272.8
313.15	8270.00	315.6
313.15	8620.00	383.1
313.15	8960.00	478.5
313.15	9310.00	554.1
313.15	9650.00	599.1
313.15	10000.00	630.0
313.15	10340.00	649.1
313.15	10690.00	667.8
313.15	11030.00	682.9
313.15	11380.00	696.2
313.15	11720.00	708.0
313.15	12070.00	718.3
313.15	12410.00	727.4
313.15	12750.00	737.3
313.15	13100.00	744.1
313.15	13440.00	751.0
313.15	13790.00	757.9
313.15	14130.00	765.3
313.15	14480.00	770.0
313.15	14820.00	775.9
313.15	15160.00	781.5
313.15	15510.00	786.4
313.15	15860.00	791.7
313.15	16200.00	796.1
313.15	16550.00	801.2
313.15	16900.00	805.8
313.15	17240.00	809.8
333.15	340.00	7.7
333.15	690.00	13.4
333.15	1030.00	19.9
333.15	1380.00	25.1
333.15	1720.00	31.9
333.15	2070.00	38.4
333.15	2410.00	44.1
333.15	2760.00	51.2
333.15	3100.00	59.1
333.15	3450.00	65.1
333.15	3800.00	73.1
333.15	4140.00	79.7

333.15	4480.00	87.9
333.15	4830.00	96.5
333.15	5170.00	105.1
333.15	5510.00	114.2
333.15	5860.00	123.8
333.15	6200.00	133.4
333.15	6550.00	144.2
333.15	6890.00	154.3
333.15	7240.00	166.4
333.15	7580.00	178.8
333.15	7930.00	190.1
333.15	8270.00	205.2
333.15	8620.00	219.5
333.15	8960.00	235.1
333.15	9310.00	252.4
333.15	9650.00	271.0
333.15	10000.00	291.4
333.15	10340.00	313.6
333.15	10690.00	337.0
333.15	11030.00	361.9
333.15	11380.00	388.0
333.15	11720.00	411.1
333.15	12070.00	437.9
333.15	12410.00	463.8
333.15	12750.00	489.2
333.15	13100.00	510.1
333.15	13440.00	530.7
333.15	13790.00	549.9
333.15	14130.00	567.7
333.15	14480.00	582.0
333.15	14820.00	596.0
333.15	15160.00	609.4
333.15	15510.00	621.0
333.15	15860.00	627.4
333.15	16200.00	642.1
333.15	16550.00	651.8
333.15	16900.00	661.7
333.15	17240.00	669.7
353.15	340.00	7.4
353.15	690.00	13.5
353.15	1030.00	18.8
353.15	1380.00	24.6
353.15	1720.00	31.4
353.15	2070.00	36.1

353.15	2410.00	41.9
353.15	2760.00	48.0
353.15	3100.00	54.1
353.15	3450.00	61.4
353.15	3800.00	67.2
353.15	4140.00	73.8
353.15	4480.00	80.5
353.15	4830.00	88.0
353.15	5170.00	94.9
353.15	5510.00	102.4
353.15	5860.00	110.2
353.15	6200.00	118.0
353.15	6550.00	126.2
353.15	6890.00	134.4
353.15	7240.00	143.4
353.15	7580.00	152.1
353.15	7930.00	161.4
353.15	8270.00	171.1
353.15	8620.00	180.8
353.15	8960.00	191.1
353.15	9310.00	201.8
353.15	9650.00	211.9
353.15	10000.00	223.5
353.15	10340.00	235.0
353.15	10690.00	247.4
353.15	11030.00	259.8
353.15	11380.00	272.4
353.15	11720.00	283.9
353.15	12070.00	298.3
353.15	12410.00	312.1
353.15	12750.00	328.4
353.15	13100.00	342.0
353.15	13440.00	356.7
353.15	13790.00	372.8
353.15	14130.00	388.6
353.15	14480.00	403.0
353.15	14820.00	417.8
353.15	15160.00	433.0
353.15	15510.00	447.5
353.15	15860.00	461.0
353.15	16200.00	475.0
353.15	16550.00	488.1
353.15	16900.00	501.0
353.15	17240.00	513.0

373.15	340.00	6.5
373.15	690.00	10.9
373.15	1030.00	17.1
373.15	1380.00	23.2
373.15	1720.00	28.6
373.15	2070.00	32.7
373.15	2410.00	39.2
373.15	2760.00	44.8
373.15	3100.00	50.3
373.15	3450.00	56.1
373.15	3800.00	63.2
373.15	4140.00	67.9
373.15	4480.00	73.1
373.15	4830.00	80.0
373.15	5170.00	86.2
373.15	5510.00	93.0
373.15	5860.00	99.2
373.15	6200.00	106.0
373.15	6550.00	112.9
373.15	6890.00	120.0
373.15	7240.00	127.0
373.15	7580.00	135.4
373.15	7930.00	143.1
373.15	8270.00	151.1
373.15	8620.00	158.1
373.15	8960.00	166.1
373.15	9310.00	174.4
373.15	9650.00	182.7
373.15	10000.00	191.9
373.15	10340.00	199.4
373.15	10690.00	208.4
373.15	11030.00	217.3
373.15	11380.00	223.2
373.15	11720.00	233.1
373.15	12070.00	242.8
373.15	12410.00	252.7
373.15	12750.00	262.8
373.15	13100.00	272.5
373.15	13440.00	283.1
373.15	13790.00	293.1
373.15	14130.00	304.7
373.15	14480.00	314.9
373.15	14820.00	325.0
373.15	15160.00	336.1

373.15	15510.00	347.6
373.15	15860.00	358.1
373.15	16200.00	368.7
373.15	16550.00	379.8
373.15	16900.00	390.2
373.15	17240.00	400.4
393.15	340.00	5.7
393.15	690.00	9.5
393.15	1030.00	16.3
393.15	1380.00	22.1
393.15	1720.00	26.9
393.15	2070.00	32.0
393.15	2410.00	37.0
393.15	2760.00	47.5
393.15	3100.00	47.4
393.15	3450.00	52.9
393.15	3800.00	58.2
393.15	4140.00	63.6
393.15	4480.00	69.2
393.15	4830.00	74.7
393.15	5170.00	80.4
393.15	5510.00	86.2
393.15	5860.00	92.4
393.15	6200.00	98.1
393.15	6550.00	104.7
393.15	6890.00	110.5
393.15	7240.00	113.6
393.15	7580.00	123.1
393.15	7930.00	129.9
393.15	8270.00	136.2
393.15	8620.00	142.9
393.15	8960.00	149.4
393.15	9310.00	156.2
393.15	9650.00	163.2
393.15	10000.00	170.4
393.15	10340.00	176.4
393.15	10690.00	183.2
393.15	11030.00	191.1
393.15	11380.00	198.2
393.15	11720.00	203.9
393.15	12070.00	210.8
393.15	12410.00	218.0
393.15	12750.00	226.3
393.15	13100.00	234.0

393.15	13440.00	242.1
393.15	13790.00	250.9
393.15	14130.00	258.0
393.15	14480.00	266.4
393.15	14820.00	275.0
393.15	15160.00	283.9
393.15	15510.00	291.1
393.15	15860.00	300.7
393.15	16200.00	308.4
393.15	16550.00	316.8
393.15	16900.00	325.1
393.15	17240.00	333.1

Reference *https://www.doi.org/10.1021/je301283e*

Temperature, K	Pressure, kPa	Mass density, kg/m3
308.15	10000.00	717.2
308.15	15000.00	816.1
308.15	20000.00	866.1
308.15	30000.00	929.0
308.15	40000.00	971.7
313.15	10000.00	636.6
313.15	15000.00	781.3
313.15	20000.00	840.2
313.15	30000.00	909.7
313.15	40000.00	955.5
323.15	10000.00	397.3
323.15	15000.00	701.8
323.15	20000.00	784.9
323.15	30000.00	870.3
323.15	40000.00	922.8
333.15	10000.00	296.1
333.15	15000.00	607.0
333.15	20000.00	724.4
333.15	30000.00	829.6
333.15	40000.00	889.8

Reference *https://www.doi.org/10.1021/je700373r*

Pressure, kPa	Temperature, K	Mass density, kg/m3
10000.00	313.00	570.0
15000.00	313.00	780.0

20000.00	308.00	870.0
20000.00	313.00	850.0
20000.00	318.00	820.0
20000.00	323.00	790.0
20000.00	328.00	760.0
20000.00	333.00	730.0
20000.00	313.00	830.0
25000.00	313.00	890.0
36000.00	313.00	900.0
Reference		*https://www.doi.org/10.1021/je801009z*

Speed of sound, m/s

Temperature, K - Gas	Pressure, kPa - Gas	Speed of sound, m/s - Gas
260.00	884.92	242.761
260.00	822.03	243.577
260.00	760.19	244.37
260.00	701.21	245.119
260.00	626.77	246.054
260.00	562.69	246.845
260.00	501.31	247.598
260.00	434.17	248.411
260.00	379.95	249.058
260.00	317.37	249.804
270.00	977.38	247.218
270.00	906.73	248.028
270.00	819.89	249.014
270.00	732.10	249.996
270.00	644.89	250.959
270.00	556.68	251.923
270.00	460.73	252.96
270.00	362.27	254.006
270.00	305.05	254.606
280.00	981.82	252.563
280.00	884.20	253.546
280.00	798.98	254.394
280.00	692.20	255.443
280.00	621.46	256.133
280.00	537.04	256.947
280.00	453.25	257.75

280.00	362.38	258.608
280.00	280.31	259.377
290.00	819.49	259.125
290.00	733.65	259.876
290.00	655.16	260.559
290.00	571.60	261.28
290.00	490.56	261.978
290.00	421.86	262.559
290.00	355.64	263.124
290.00	282.86	263.732
290.00	228.71	264.19
300.00	1017.33	262.36
300.00	927.15	263.073
300.00	847.25	263.703
300.00	755.49	264.422
300.00	663.90	265.134
300.00	583.49	265.756
300.00	500.85	266.392
300.00	415.37	267.046
300.00	340.26	267.619
300.00	280.85	268.065
304.09	968.58	264.694
304.09	868.88	265.446
304.09	772.25	266.17
304.09	544.65	267.858
304.09	434.91	268.664
312.75	959.38	268.804
312.75	858.54	269.494
312.75	729.55	270.371
312.75	636.23	271.003
312.75	534.77	271.688
312.75	441.68	272.312
312.75	394.20	272.63
322.75	929.78	273.533
322.75	832.63	274.131
322.75	735.59	274.723
322.75	624.83	275.397
322.75	522.36	276.021
322.75	412.26	276.687
322.75	314.03	277.276
332.75	958.15	277.777
332.75	857.33	278.334
332.75	755.50	278.895
332.75	664.72	279.393

332.75	544.84	280.054
332.75	520.66	280.185
332.75	415.50	280.761
332.75	316.28	281.299

Reference *https://www.doi.org/10.1021/je500424b*

Thermal conductivity, W/m/K

Temperature, K - Gas	Pressure, kPa - Gas	Thermal conductivity, W/m/K - Gas
298.89	6100.00	0.0331
299.02	5760.00	0.0290
299.19	5400.00	0.0263
299.31	5035.00	0.0244
299.50	4555.00	0.0227
299.60	3980.00	0.0211
299.73	3285.00	0.0197
299.85	2555.00	0.0186
300.06	1702.00	0.0178
300.37	714.00	0.0171
302.67	6635.00	0.0370
302.77	6400.00	0.0331
302.80	6025.00	0.0290
302.86	5675.00	0.0269
302.92	5290.00	0.0247
302.97	4870.00	0.0234
303.08	4340.00	0.0218
303.22	3765.00	0.0205
303.51	3160.00	0.0196
303.81	2415.00	0.0187
303.99	1612.00	0.0180
304.21	724.00	0.0174
324.87	7960.00	0.0321
324.90	7750.00	0.0312
324.92	7440.00	0.0295
324.95	5960.00	0.0250
325.01	6900.00	0.0277
325.04	6760.00	0.0272
325.10	5575.00	0.0243
325.12	6360.00	0.0261
325.28	5060.00	0.0232

325.42	4605.00	0.0225
325.48	4040.00	0.0218
325.64	3500.00	0.0213
325.81	2880.00	0.0205
325.93	2218.00	0.0200
326.03	1514.00	0.0196
326.17	684.00	0.0192
326.26	497.00	0.0191
350.83	9985.00	0.0332
350.89	8840.00	0.0303
350.96	7540.00	0.0277
351.12	6040.00	0.0255
351.44	4275.00	0.0235
351.82	2214.00	0.0220
351.87	1820.00	0.0218
351.91	1420.00	0.0215
352.10	994.00	0.0214
352.23	572.00	0.0214
375.68	14930.00	0.0418
375.71	13880.00	0.0389
375.75	12560.00	0.0362
375.80	11100.00	0.0332
375.85	9640.00	0.0308
375.91	8060.00	0.0289
376.01	6260.00	0.0267
376.11	4240.00	0.0250
376.28	2004.00	0.0238
376.51	1015.00	0.0235
400.85	15010.00	0.0384
400.93	13550.00	0.0362
400.98	11950.00	0.0339
401.03	10340.00	0.0319
401.15	8495.00	0.0300
401.30	6660.00	0.0285
401.42	4600.00	0.0271
401.60	2382.00	0.0260
401.66	1690.00	0.0258
401.74	975.00	0.0257
427.12	12000.00	0.0343
427.23	9898.00	0.0325
427.38	8240.00	0.0313
427.51	6160.00	0.0297
427.67	3970.00	0.0288
427.70	3020.00	0.0283

427.95	2050.00	0.0281
428.05	1040.00	0.0280

Reference *https://www.doi.org/10.1007/s10765-005-5566-6*

Viscosity, Pa*s

Temperature, K - Gas	Pressure, kPa - Gas	Viscosity, Pa*s - Gas
298.15	604.50	0.0000149
298.15	498.50	0.0000149
298.15	402.90	0.0000149
298.15	303.30	0.0000149
298.15	204.60	0.0000149
298.15	100.80	0.0000149
323.16	598.70	0.0000161
323.16	500.40	0.0000161
323.16	400.70	0.0000161
323.16	304.90	0.0000161
323.16	200.90	0.0000161
323.16	151.60	0.0000161
323.16	100.80	0.0000161
373.16	802.60	0.0000185
373.16	604.90	0.0000185
373.16	399.90	0.0000184
373.16	296.80	0.0000184
373.16	201.10	0.0000184
373.16	151.40	0.0000184
373.16	100.40	0.0000184
423.14	998.90	0.0000208
423.14	800.80	0.0000207
423.14	600.40	0.0000207
423.14	397.60	0.0000207
423.14	302.00	0.0000207
423.14	204.10	0.0000206
423.14	153.30	0.0000207
423.14	100.20	0.0000206
473.15	1200.90	0.0000229
473.15	997.80	0.0000229
473.15	803.00	0.0000228
473.15	601.10	0.0000228
473.15	403.50	0.0000228

473.15	202.50	0.0000228
473.15	153.00	0.0000228
473.16	100.10	0.0000228
253.15	401.40	0.0000127
253.15	300.50	0.0000127
253.15	200.50	0.0000127
253.15	153.00	0.0000127
253.15	100.20	0.0000127
273.17	502.80	0.0000137
273.17	399.40	0.0000137
273.17	301.70	0.0000137
273.17	203.40	0.0000137
273.17	151.80	0.0000137
273.17	100.40	0.0000137
298.15	502.80	0.0000149
298.15	400.00	0.0000149
298.15	303.20	0.0000149
298.15	201.60	0.0000149
298.15	150.40	0.0000149
298.15	100.80	0.0000149
298.15	499.70	0.0000149

Reference *https://www.doi.org/10.1016/j.jct.2015.04.015*

Temperature, K	Pressure, kPa	Viscosity, Pa*s
308.20	1200.00	0.0000153
308.20	2070.00	0.0000154
308.20	11330.00	0.0000638
308.20	22090.00	0.0000882
308.20	34970.00	0.0001068
308.20	68930.00	0.0001441
308.20	101200.00	0.0001733
308.20	150520.00	0.0002220
323.20	1270.00	0.0000161
323.20	2050.00	0.0000163
323.20	5040.00	0.0000174
323.20	11440.00	0.0000398
323.20	20670.00	0.0000711
323.20	50820.00	0.0001120
323.20	105530.00	0.0001606
323.20	150430.00	0.0001953

Reference *https://www.doi.org/10.1016/j.jct.2017.11.005*

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Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
cpg:	Ideal gas heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
ea:	Electron affinity
gf:	Standard Gibbs free energy of formation
gyrad:	Radius of Gyration
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
kvisc:	Kinematic viscosity
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pt:	Triple Point Pressure
pvap:	Vapor pressure
rhoc:	Critical density

rhog: Gas Density
rhol: Liquid Density
rinpol: Non-polar retention indices
sgb: Molar entropy at standard conditions (1 bar)
speedsl: Speed of sound in fluid
srf: Surface Tension
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tcondg: Gas thermal conductivity
tf: Normal melting (fusion) point
tt: Triple Point Temperature
vc: Critical Volume
zc: Critical Compressibility
zra: Rackett Parameter