

Carbon dioxide

Other names:	Anhydride carbonique CARBONIC ANHYDRIDE CO ₂ Carbon oxide (CO ₂) Carbonic acid anhydride Carbonic acid, gas Carbonica Cardice Dricold Drikold Dry ice Khladon 744 Kohlendioxyd Kohlensäure R 744 UN 1013 UN 1845 UN 2187
Inchi:	InChI=1S/CO2/c2-1-3
InchiKey:	CURLTUGMZLYLDI-UHFFFAOYSA-N
Formula:	CO ₂
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	-393.51 ± 0.13	kJ/mol	NIST Webbook
hf	-393.80	kJ/mol	KDB

hfus	11.09	kJ/mol	Joback Method
hvap	29.78	kJ/mol	Joback Method
ie	13.77 ± 0.00	eV	NIST Webbook
ie	13.77 ± 0.00	eV	NIST Webbook
ie	13.75 ± 0.05	eV	NIST Webbook
ie	13.77	eV	NIST Webbook
ie	13.77 ± 0.03	eV	NIST Webbook
ie	13.79 ± 0.01	eV	NIST Webbook
ie	13.80 ± 0.01	eV	NIST Webbook
ie	13.77	eV	NIST Webbook
ie	13.78	eV	NIST Webbook
ie	13.78 ± 0.01	eV	NIST Webbook
ie	13.90 ± 0.20	eV	NIST Webbook
ie	13.77 ± 0.00	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.79	eV	NIST Webbook
ie	13.83 ± 0.05	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.77	eV	NIST Webbook
ie	13.79 ± 0.05	eV	NIST Webbook
ie	13.89 ± 0.03	eV	NIST Webbook
ie	13.78	eV	NIST Webbook
ie	13.00 ± 1.00	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	13.78	eV	NIST Webbook
ie	13.79	eV	NIST Webbook
ie	13.78 ± 0.00	eV	NIST Webbook
ie	13.78 ± 0.01	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	7375.00	kPa	KDB
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	7360.00	kPa	Phase Behaviors, Density, and Isothermal Compressibility of Styrene + CO ₂ , Ethylbenzene + CO ₂ , and Ethylbenzene + Styrene + CO ₂ Systems
pc	7420.00	kPa	Critical Properties of the Reacting Mixture in the Esterification of Acetic Acid with Ethanol
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	7380.00 ± 15.00	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	7340.00 ± 50.00	kPa	NIST Webbook
pt	518.50 ± 0.50	kPa	NIST Webbook
pt	518.50	kPa	KDB
rhoc	466.06 ± 0.31	kg/m ³	NIST Webbook
rhoc	466.50 ± 2.20	kg/m ³	NIST Webbook
rhoc	475.30 ± 8.80	kg/m ³	NIST Webbook
rhoc	468.26 ± 1.50	kg/m ³	NIST Webbook
rinpol	152.00		NIST Webbook
rinpol	153.00		NIST Webbook
rinpol	152.00		NIST Webbook
rinpol	154.00		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	304.14	K	KDB
tc	304.30	K	Development of a Predictive Equation of State for CO ₂ + Ethyl Ester Mixtures Based on Critical Points Measurements
tc	304.23	K	NIST Webbook
tc	304.20 ± 0.02	K	NIST Webbook
tc	304.35 ± 0.40	K	NIST Webbook

tc	304.18 ± 0.04	K	NIST Webbook
tc	304.10 ± 0.10	K	NIST Webbook
tf	216.58	K	KDB
tt	216.52	K	Solid Liquid Equilibria for the CO ₂ + R23 and N ₂ O + R23 Systems
tt	216.58	K	KDB
tt	216.58 ± 0.03	K	NIST Webbook
tt	216.58 ± 0.01	K	NIST Webbook
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
vc	0.094	m ³ /kmol	KDB
vc	0.092 ± 0.001	m ³ /kmol	NIST Webbook
zc	0.2741450		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	39.81	J/mol×K	288.60	Joback Method
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	42.55	J/mol×K	331.33	Joback Method
dvisc	0.0000356	Paxs	800.00	Viscosity of H ₂ -CO ₂ Mixtures at (500, 800, and 1100) K
dvisc	0.0000452	Paxs	1100.00	Viscosity of H ₂ -CO ₂ Mixtures at (500, 800, and 1100) K
dvisc	0.0000236	Paxs	500.00	Viscosity of H ₂ -CO ₂ Mixtures at (500, 800, and 1100) K
hsubt	26.30	kJ/mol	167.00	NIST Webbook
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
hvapt	16.40	kJ/mol	244.50	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, N ₂ , O ₂ , Ar, CO ₂ , Kr, Xe, and H ₂ O using a double paddle oscillator
hvapt	16.70	kJ/mol	288.50	NIST Webbook
pvap	682.90	kPa	223.14	Vapor-liquid equilibrium data for the carbon dioxide and nitrogen (CO ₂ +N ₂) system at the temperatures 223, 270, 298 and 303 K and pressures up to 18 MPa
pvap	5627.00	kPa	293.00	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems
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	3387.00	kPa	273.00	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems
pvap	6436.90	kPa	298.17	Vapor-liquid equilibrium data for the carbon dioxide and nitrogen (CO ₂ +N ₂) system at the temperatures 223, 270, 298 and 303 K and pressures up to 18 MPa

pvap	7210.50	kPa	303.16	Vapor-liquid equilibrium data for the carbon dioxide and nitrogen (CO ₂ +N ₂) 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 (CO ₂ + 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 (CO ₂ + 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 (CO ₂ + 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 (CO ₂ + 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 (CO ₂ + 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 (CO ₂ + 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 (CO ₂ + 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 CO ₂ using ATR FTIR spectroscopy
pvap	6240.00	kPa	297.05	A synthetic-dynamic method for water solubility measurements in high pressure CO ₂ using ATR FTIR spectroscopy
pvap	6520.00	kPa	299.05	A synthetic-dynamic method for water solubility measurements in high pressure CO ₂ using ATR FTIR spectroscopy
pvap	7090.00	kPa	302.65	A synthetic-dynamic method for water solubility measurements in high pressure CO ₂ using ATR FTIR spectroscopy
pvap	7180.00	kPa	303.25	A synthetic-dynamic method for water solubility measurements in high pressure CO ₂ using ATR FTIR spectroscopy
pvap	3476.00	kPa	272.78	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃)

pvap	3958.00	kPa	277.83	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃)
pvap	4487.00	kPa	282.87	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃)
pvap	5069.00	kPa	287.92	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃)
pvap	5705.00	kPa	292.95	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃)
pvap	6404.00	kPa	297.99	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃)
pvap	7176.00	kPa	303.03	Isothermal (vapour + liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃)
pvap	1426.50	kPa	243.15	Experimental research on (vapor + liquid) equilibria for the {trifluoriodomethane (CF ₃ I) + carbon dioxide (CO ₂)} system from 243.150 to 273.150 K
pvap	1968.40	kPa	253.15	Experimental research on (vapor + liquid) equilibria for the {trifluoriodomethane (CF ₃ I) + carbon dioxide (CO ₂)} system from 243.150 to 273.150 K

pvap	2647.50	kPa	263.15	Experimental research on (vapor + liquid) equilibria for the {trifluoriodomethane (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 {trifluoriodomethane (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 (CO ₂ + 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 (CO ₂ + 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 (CO ₂ + 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	4392.00	kPa	282.15	Phase Equilibrium and Liquid Viscosity of CO ₂ + n-Dodecane Mixtures between 283 and 353 K
pvap	4961.00	kPa	287.11	Phase Equilibrium and Liquid Viscosity of CO ₂ + n-Dodecane Mixtures between 283 and 353 K
pvap	5555.00	kPa	291.84	Phase Equilibrium and Liquid Viscosity of CO ₂ + n-Dodecane Mixtures between 283 and 353 K
pvap	6214.00	kPa	296.64	Phase Equilibrium and Liquid Viscosity of CO ₂ + n-Dodecane Mixtures between 283 and 353 K
pvap	6928.00	kPa	301.38	Phase Equilibrium and Liquid Viscosity of CO ₂ + 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 (CO ₂) + 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 (CO ₂) + 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 (CO ₂) + 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	6323.00	kPa	298.10	Experimental Measurements and Thermodynamic Modeling of the Dissociation Conditions of Clathrate Hydrates for (Refrigerant + NaCl + Water) Systems
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	$\ln(P_{vp}) = A + B/(T + C)$
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

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>

Kinematic viscosity, m²/s

Temperature, K - Gas	Pressure, kPa - Gas	Kinematic viscosity, m ² /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

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/m ³
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/m ³
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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/m ³
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/m ³
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

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- Solubility of carbon dioxide in binary and ternary mixtures with ethanol and water: Experimental Determination and Correlation of Artemisinin's Solubility in Supercritical CO₂ and its Absorbents**
2-ethoxyethyl ether, 2-butoxyethyl Esterate and 2-(2-ethoxyethoxy)ethyl acetate: correlation of the solubility of a new heterocyclic compound in supercritical CO₂ modeling of supercritical butanol-odor compounds: Measurement of supercritical CO₂ at sea level pressures and temperatures: Bubble and Dew Point Measurements of the Ternary System Carbon Dioxide + Ethanol + H₂O: Part I: Capacity via Correlating Measured Electrical Conductivity and Methane pressure phase equilibrium of (CO₂ + NO₂/N₂O₄) Molar Fraction and thermodynamic modeling of aliphatic amine systems: Study of CO₂ solubility in promising binary diffusion coefficients of Arachidonic Acid Ethyl Esters, Palmitoleic, Linoleic, Linolenic Acid (2-ethoxyethyl acrylate) and Ethanol in the 102-1050 K temperature range at various temperatures and pressures: Dependence of solubility on the nature of solvents under geological conditions - Nitrogen mixtures (0-100 to 100%) with the thermochimistry of mercaptoene revisited: Water Solubility at Saturation for CO₂ /CH₄ Mixtures at 323.2 K and 9.000 MPa: Compact apparatus for rapid measurement of high-pressure phase equilibrium densities measurements and binary mixture (carbon dioxide + methane) at the measurement of critical properties: Equilibrium properties of supercritical mixtures: mini-bomb combustion calorimeter: New experimental VLE data for the binary mixture of carbon dioxide + pentylbenzene (CO₂ supercritical carbon dioxide/alcohol mixtures): Limiting Diffusion Coefficients of Ethyl Benzoate, Benzylacetone, and Eugenol in carbon dioxide at supercritical carbon dioxide measurement and CPA equation of state for solubility of Salicylic acid, Salicylaldehyde in Derivatives in Supercritical Carbon Dioxide: Pressure Phase Equilibria for the Carbon Dioxide + 1-Propanol System: Solubility of Pyrazine and Its Derivatives in Supercritical Carbon Dioxide: Solubility Measurements and Modeling for Tertiary Diamines: Excess molar enthalpies for mixtures of carbon dioxide + a modifier (5 mol% solubility of Cobalt naphthalocyanine in Pressurized Carbon Dioxide: Synthesis, Solubility Parameters, and Equilibrium Measurements: Energetics and molecular structure of alkyl 1-methylpyrrolecarboxylates THE STANDARD ENTHALPIES OF FORMATION OF L-ASPARAGINE AND Solubility of Alanamide and 2-Propenamide in Supercritical Carbon Dioxide: Behavior of their Crystal + CO₂ Mixture: Measurement and Correlation of Solubility of Uracil in Supercritical Carbon Dioxide: beta-Carotene and Glyceryl Trioleate Mixture in Phase Equilibrium of Acrylonitrile and p-Bromobenzaldehyde in Carbon Dioxide: Behavior, Densities, and Isothermal Compressibility of the CO₂ Measuring the Solubility of Aromatic hydrocarbons in Supercritical CO₂: Carbon Dioxide Using Sealed Cell Apparatus: Directly Interfaced Urine to Separation and Chromatography:
- <https://www.doi.org/10.1016/j.fluid.2006.04.017>
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- <https://www.doi.org/10.1021/je0498614>
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- Phase Behavior Studies of 2-Hydroxyethyl Methacrylate and Methyl Methacrylate Measurements of Carbon Dioxide and 1,1-Difluoroethene Mixtures**: Investigation of solubilities of carbon dioxide in five levulinic acid-based gel-eutectic solvents (methyl and ethyl 2-hydroxyethyl methacrylates and ethyl 2-hydroxyethyl acrylates) at supercritical CO₂: Experimental Data and Diffusion Coefficients and Henry's constants of hydrofluorocarbons in [bmim][trtfa], [bmim]PF₆ and [bmim]BF₄]. Measuring and modeling the nitrate absorption and retention properties of polyvinylidene fluoride measurements of poly(vinylidene fluoride) carbon dioxide behavior in the respiratory System Acetylene, The Ionic Liquid Solubility of Phenylindananoic Acid in Supercritical Carbon Dioxide and High Pressure Vapour-Liquid Equilibria for CO₂+Hexane at 1324.2–353.15, and activity and partial molar volumes of new CO₂-philic propane derivatives Phase Equilibrium of Hydrogen, Carbon Dioxide, Squalene, and Squalane Diffusion Coefficients and Retention Factors for Long-Chain Alkylcarboxylic Substituted Carbon Dioxide: microwave reactor for high pressure equilibrium mixture Carbon Dioxide + Hydrogen + Methanol Ternary Solubility and Diffusivity of N₂O and CO₂ in Aqueous Sodium Carbonate Solutions Apparatus Using the Dynamic Method for Determining Supercritical Properties of Binary Gas-Gas Temperature Ionic Liquid [bmim][MeSO₃] in aqueous TSP:
- Phase Equilibrium and Liquid Viscosity of CO₂ + n-Dodecane Mixtures between Density Measurements of Unloaded and CO₂-Loaded**: Diffusibility of the Single Gases Carbon dioxide and hydrogen in the Solvent of [bmim]⁺Bride in the Ionic Liquid Enhanced CO₂ capture by binary systems of quaternium-based phosphate monobases and 2-pyrrolidone: the CO₂ + 1-decanol + n-dodecane system: Pressure-Density-Temperature Behavior of CO₂/Acetone, CO₂/Toluene, and CO₂/n-Dodecane in the 2-Variable system H₂O + CO₂ + toluene + n-dodecane at 298.15 K, 0.5 MPa in Supercritical Carbon Dioxide with Experimental Determination of the Solubilities of CO₂ and CH₄ in Diethyl Phthalate and diffusivity of CO₂ in [bmim][NTf₂], [omim][NTf₂], and [dabm][NTf₂] at 298.15, 308.15, and 323.15 Industrial Fluids Simulation Measurements of solid solubilities and volumetric properties of naphthalene + Thermodynamic properties of a new CO₂-rich mixture (CO₂ + CH₃OH) in supercritical conditions: a study of phase behavior and its application to old refrigerant sole storage technology and other applications Systems Involving Carbon Dioxide, Measurement and correlation of the at high pressures of juglone in supercritical carbon dioxide solubility of CO₂, H₂S and their mixture in the ionic liquid Solubility of CO₂ in Alcohols, Glycols, Ethers and Ketones at High Pressures Solubility of Carbonyl Oxide in Water and Aqueous Solution Containing Solubility information at temperature under supercritical conditions and Pressure from 5 MPa Experimental and thermodynamic modeling of phase equilibria of {CO₂ + tetralin + n-alkanes (with n = 6, 16)} and its binary systems:
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- Compressed Liquid Densities and Excess Volumes of CO₂ + Decane Mixture for Phenylacetic Acid in Supercritical Carbon Dioxide and the Measuring Method of the Solubility Blends of Methanol with the Solubility Blends of Methanesulfonate-Based Deep-Electric Solvent for Ammonium Cation Using Binary and Ternary Mixtures of Super-dioxide with 1,1,2,2-tetrahexylpropene or Stereoblock 63- Experimental and computational thermochemistry of phenylpyrrole and 4-(4-methoxyphenyl)pyrrole: High-Pressure Phase Behavior of the Measurements of the Vapor-Liquid Equilibrium for the CO₂ + R290 Mixture: Pyridinium Based Ionic Liquids.**
- n-Butyl-3-Methyl-Pyridinium Sulfoxide, Phenyl-Sulfoxinate in Supercritical Carbon Dioxide Using Coupling PMS/MS/MS Analysis: Isomeric iso-butoxybenzoic acids: Experimental Enthalpy and solubility data of CO₂ in water and NaCl(aq) at conditions of Standard enthalpy formation: copper(II) pivalate: A new high-pressure vapour liquid equilibrium apparatus: Fluid phase equilibria and mass transfer studies applied to supercritical Saturated phase densities of (CO₂ + H₂O) at temperatures from (293 to 450) K: pressure study at 41 MPa: thermodynamic properties for Energy and computational thermochemical study of benzofuran, benzophenone and some of their derivatives: thermochromic study of Vapour-liquid equilibrium data for the carbon dioxide and carbonic acid (CO₂+O₂) system at the temperatures 218 to 233, energetic study at 288 K and phenol (up to 10 MPa): Correlation of the Solubilities of Azoxystrobin, Flutriafol, Maxitop and their substitution coefficient and solubility estimation for dyes in supercritical carbon dioxide by dichloromethylpyrimidine isomers: Thermodynamic investigation of several natural polyols (IV): Heat capacities and thermal conductivities in Supercritical Carbon Dioxide: Simultaneous solubility measurement of (ethyl mercaptan + carbon dioxide) Thermodynamic properties of (N-methyl tetrahydrophospholides + water): Comment on Solubilities of 3-acetylpyridine in supercritical carbon dioxide: Vapour-Liquid Equilibria for the Binary Mixtures of Carbon Dioxide and α-Dihydroxyalactose: Solubilities of Hexadecanoic and Octadecanoic Acids in Supercritical Solubility of Carbon Dioxide Two Pentaerythritol Ester Oils between (283 Thermodynamic Properties of 1-Ethyl-4-nitro-1,2,3-triazole: Comprehensive Thermochemical Study of Cyclic Five- and Six-Membered Thermodynamic properties of 2-methyl lactic acid: Investigation of thermodynamic properties of 1,1'-biadamantane: High-pressure vapor liquid equilibria for CO₂ + alkanol systems and Standard thermodynamic and characteristics of combustion and formations of gases in novel alcamines based on 2-[2-hydroxyethyl] (methyl) Measurement and Correlation of CO₂ solubility in supercritical carbon dioxide: Thermodynamics of systems [EMIM] containing water and carbon dioxide and [EMIM] gas at high pressures: [EMIM] measurements and modelling with SAFT-VR Mie and square-gradient theory:
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- <https://www.doi.org/10.1021/acs.jced.9b00732>
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- <https://www.doi.org/10.1016/j.jct.2015.06.034>
- <https://www.doi.org/10.1016/j.jct.2015.07.028>
- <https://www.doi.org/10.1016/j.jct.2016.02.008>
- <https://www.doi.org/10.1016/j.jct.2014.01.023>
- <https://www.doi.org/10.1016/j.fluid.2016.04.002>
- <https://www.doi.org/10.1016/j.jct.2015.01.012>
- <https://www.doi.org/10.1021/acs.jced.8b00240>
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- <https://www.doi.org/10.1021/acs.jced.7b00083>
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- <https://www.doi.org/10.1021/acs.jced.7b00532>
- <https://www.doi.org/10.1016/j.fluid.2015.07.026>

- Study of the Effect of Pressure on Melting Behavior of Saturated Fatty Acid Salts of Quaternary Ammonium Ions in Supercritical Carbon Dioxide:**
- Solubilities of Gases in the Ionic Liquid 1-n-Butyl-3-methylimidazolium Bis(2-Ethylhexyl)tetradecylphosphonium bromide: Liquid density, surface tension and solubility of 6-Tetraalkyl[4]resorcinarenes in SC_{CO₂}:**
- Experimental Measurements, Equilibrium Data for CO₂ + C₃H₈ + C₄H₁₀ and (P₁P₂P₃)_n Mixtures of Supercritical carbon dioxide and Methane:**
- Measurement and modelling of the ternary phase equilibria for high pressure carbon dioxide/water systems: and phenomena of the ternary system CO₂/water/ethanol formation of tetra- and 2,4-cyanonaphthalene:**
- Gas-phase enthalpies of formation of ethyl hydroxybenzoates: An experimental and theoretical approach:**
- Thermochromical Study of Methyl n-Methoxybenzoates: An Experimental Approach for Carbon Dioxide in Aqueous Blends of Methyl Diethanolamine and DEA, and Studies of Alkaline Salts of MDEA + Measurement and prediction of the interaction tension for paraffin + CO₂ and (CO₂)_n2N₂ mixture liquid-vapour equilibrium data for various mixtures of (n-hexane + 0.2 or 0.5 mol%) for the solid solubilities of antipyrine, 4-aminoantipyrine and Vanillin and Equilibrium binary Carbonyl chloride + alkali carbonate mixture systems: vapor-liquid equilibria for carbon dioxide + tetrahydrofuran mixtures:**
- Binary Diffusion Coefficients of 2-Ethyltoluene, 3-Ethyltoluene, and Dimethylsulfide in Super Tension of CO₂ based Aqueous Monoethanolamine solutions with S_{CO₂}(0.12 to 0.17) at T = 298 K and Dynamics of Solvation of Carbon Dioxide, Ethane, and Hydrogen in Hünig's carboxylate derivatives: A Phase Behavior of Carbon Dioxide in tert-Butylphenylcarboxylic acid, tert-Butylphenylacetate and of 2-Acetylacetaminophenone and of 2-Acetylacetaminophenol in supercritical carbon dioxide by Energetic Salt Based on Furazan Derivative and Melamine: High Pressure Phase Behavior of Carboxylic Acid with Carbon Dioxide in Supercritical Fluids:**
- Bubble-point measurement for the thermodynamic superhydrogyl acrylate oligopropylene methacrylate of Excess Molar Enthalpies of the Binary Cation Dioxide + Dipropylene Ether Supercritical Carbon Dioxide with 298.15 K and Pressures of 298.15 K and 300.0 K:**
- Organometallic complexes in supercritical carbon dioxide by supercritical carbon dioxide aqueous phase of the thermodynamic and excess enthalpies of 1,4-dichloro-2,3-dicyanovinylines: Measuring dissolution on electrical conductivity and self-diffusion coefficients for supercritical carbon dioxide of 3-methylimidazolium quaternary phosphonium and tertiary 2,6,10-trien-1-ol:**
- Stabilities of Vanillin and 2,4-Dihydroxyphenylborane for carbon dioxide/tetraalkoxysilane systems:**
- Solubility of Small-Chain Carboxylic Acids in Supercritical Carbon Dioxide: Phase Behaviors, Density, and Isothermal Compressibility of Styrene + CO₂, Ethylbenzene + CO₂, and Pyridine Derivatives in Supercritical Carbon Dioxide:**
- 1-Ethyl-3-methylimidazolium Propionate of carbon dioxide in aqueous solution of diisopropanolamine and 1-Ethyl-3-methylimidazolium Diethylaluminum:**
- Tricyanomethanide at (298.2 to 373.2) K and (0 to 300.0) kPa:**
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- <https://www.doi.org/10.1021/acs.jced.8b00978>
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- Thermodynamic properties of methylprednisolone aceponate: Solubility of CO₂ in and Density, Viscosity, and Surface Tension of Surface Tension of Partially Carbonated Gaseous Mixture of Mixtures of Carbon Dioxide and Propane with the Solubility of Carbon Dioxide in 1-Ethyl-3-methylimidazolium**
- Solubility of carbon monoxide in bio-oil compounds:**
- H₂ solubility in methanol in the presence of CO₂ and O₂:**
- Experimental and computational thermodynamic study of ortho- meta- and para-dinitrophenol:**
- Experimental determination and calculation of the critical curves for the Ammonium Sulfide 200 Supercritical Carbon Dioxide Ester and alcohol, Phase Behavior, Densities, and Isothermal Compressibility of CO₂ + Benchmark thermodynamic properties of methylglycosides: Experimental and theoretical study of the formation of formation, molar heat capacities, and crystallization of anhydrous caffeine: alpha, alpha-trehalose (polymorph beta)**
- Solubility measurements of an anti-Histamine (chlorpheniramine) in supercritical carbon dioxide equilibrium of CO₂ + Phenylephrine and PC-SAFT equations of state:**
- Solubilities of 5,6-dihydro-5-methyluracil and Salicylates of Retinyl Acid + Capsaicin in Supercritical Carbon Dioxide in the Ionic Liquids [TBMN][MeSO₄] and [TBMP][MeSO₄]: Combustion behavior and physico-chemical properties of the thermodynamic properties of 8-methylquinoline and 8-quinolinolinate (TKX-50): Measurements of therm measurements and thermodynamic modeling of {CO₂ + Branched-chain alkanes} and calculation of thermodynamic properties Determination of high concentrations of CO₂ at high pressures: Equilibrium, structure and two binary interaction derivatives: Experimental and computational study on the energetics of tetanone: Determination of VLE values of 1-hexene/cycloheptene Equilibrium of the Binary System of Sub- and Supercritical CO₂ and Dimethyl Etheratealkylthiocarbamates in Supercritical Supercritical Carbon Dioxide from Pressurized Carbonated Water from 298.15 to 600 K of 1,3-diethylbarbituric and Gas-liquid experimental interfacial tension measurement: computational study: Measurement and modelling of high pressure density and interfacial tension Sp(gas)-P(liquid) binary mixtures: ruthenium precursors in supercritical Thermodynamic properties of three ring azoaromatics: Experimental results for benzaline and thermochromic study of two of benzylidene acetone, acetylacetone and benzylidene phenyl isobutyrate and experimental standard molar enthalpies of formation of some Phenyl Equilibrium of isomers: trans-1,3,3,3-Tetrafluoropropene with Solubility of Carbon Dioxide in liquid Mixtures of Water + [bmim][CH₃SO₄]: Thermochemistry of 2,2-dipyridil N-oxide and 2,20-dipyridil N,N'-dioxide.**
- Densities of Partially Carbonated Aqueous Diethanolamine and Methylamine and Partition Coefficients of 5-Fluorouracil in ScCO₂ and Solubility of carbon dioxide in 2-methylbutyric, 2-methylvaleric and 2-methylhexanoic ester oils:**
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- Phase equilibria of the binary systems of fenofibrate and dense gases (carbon dioxide, propane, ethane, methane) in Binary Water Methanol Mixtures: Physical Properties of 1-Butyl-3-methylimidazolium**
- Thermophysical Properties of 2-pyrrolidone Mixtures and a Revised Density Experiment Measurement Method at High Pressure in Crude oils using an acoustic wave**
- Solubility of carbon dioxide in ammonium based CO₂-induced ionic liquids**
- Solubility of carbon dioxide in the low-viscosity ionic liquid**
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- Measurement and validation for isothermal solubility data of solid 2-hydroxy-4-methoxyphenyl-5,6,7,8-tetramethoxychromen-4-one**
- Solubility of CO₂ in Propane and CO₂ + C₆H₆ and Supercritical CO₂ Fluids: The Volumetric Properties of Carbonyl Sulfide and Carbon Dioxide Mixtures Solubility of CO₂ in propane-based 35% trans-decenoic acid/C₆H₆ mixtures in Subcooled n-heptane Streams, including the near critical regions of the 100% high pressure solubilities of CO₂ in propane, hexane, and 1,1,1-trimethylbenzene (methylbenzene)**
- Solubilities of palmitic and stearic fatty acids in supercritical carbon dioxide: Solubility measurements and correlation of carbon dioxide in**
- Supercritical solubility of carbon dioxide and hydrogen sulfide in comparison with CO₂/CO₂ Mixtures at (500, 800, and 1100) K:**
- Solubilities of Carbon Dioxide, Methane, and Ethane in Sodium**
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- 2-Ethylhexanoic Acid, and Their**
- Mixtures in Supercritical Carbon**
- Dioxide acencarboxylic acid:**
- Solubility of 5-Hydroxymethylfurfural in Supercritical Carbon Dioxide with and**
- The role of ethanol in estimation of (3001 temperature and Correlation of**
- Bubble Point Pressure in (CO₂ + C₆H₆), (CO₂ + C₆H₅Cl) (CO₂ + C₆H₁₄), and**
- (CO₂ + C₇H₁₆) at temperatures from 298.15 to 343.15 K and pressures from 0.1 to 100 bar (part 30):**
- Mixed Methylene Mixtures at**
- Measurement and Correlation of 492**
- Correlation of the Systems of CO₂ +**
- solvent(CO₂ + Benzene, and CO₂ +**
- Supercritical Carbon Dioxide)**
- Supercritical CO₂ solvents:**
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- dichloroacetophenone isomers:**
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- Molar Heat Capacities, Thermodynamic Properties, and Thermal Stability of Triethylamine/2-thiophenecarboxylic acid Imidazolium-Based Ionic Liquid + CO₂ Mixtures:** Thermochemical and thermophysical study of 2-thiophenecarboxylic acid
Rheological and Transport Properties in Supercritical Carbon Dioxide: Entrainier Effect and Enthalpy of formation of crystalline ZnCl₂(CH₃NH)₂Cl₂(DMSO): Study of the Thermodynamic Properties of Measurement and Correlation of the Solid-Liquid-Gas Equilibria for Carbon Dioxide + Octadecanoic Acid + Stearic Acid in Mixed Carboxylic Acid + DMSO + CO₂ liquids: Four-dimensional model of the viscosity of carbonated MDEA + MEA aqueous solutions of p-Methylbenzene Sulfonic Acid in Pure and Modified Supercritical Carbon Dioxide: determination of the gas-phase enthalpy of formation of low-temperature solubilities and thermodynamics of solvation of eight Gases-Liquid Equilibrium for the CO₂-n-C₈H₁₈ and CO₂-n-C₁₂H₂₆ Systems: A New Approach of ketone groups on the energetic properties of phthalan Thermochemical Data for Processing Naphthol with Supercritical Carbon Dioxide: Pressure Phase Equilibrium for Carbon Dioxide + Ethanol at 291.15 K: Phase behavior of {carbon dioxide + [bmim][Ac]} mixtures: Thermochemical and theoretical study of 2-oxazolidinone and Quantitative Raman Spectroscopic Measurements of CO₂ Solubility in NaCl Solutions from 270.95 to 473.15 K and 1000 to 2000 MPa: Ion-pair formation of ester and ether groups: Mutual validation of experimental and computational Evaluation of thermochemical data of aliphatic acids with some complementary Method: Constant and Entropy of state in pure pressure Carbon Dioxide and thermodynamic modelling of the Measurement and correlation of the diffusion coefficients of chromium (III) ions in aqueous 20 mol% dilution in supercritical carbon dioxide and carbon dioxide/ethanol: Excess Molar Enthalpies of CO₂ + Acetone at Pressures from (9.00 to 16.00) MPa and Modelling of the solubility of carbon dioxide in aqueous 0.8 mol/mole Q₂ solution: 1-(2-hydroxyethyl)-3-methylimidazolium Nitrate with different alcohols of CO₂ with four unsaturated fatty acid Enthalpies of hydration: A Calorimetric and Computational Thermochemical Study: pyrrolecarbonitriles and derivatives: A thermocapillary liquid equilibrium data for the carbon dioxide (R744) + carbon dioxide/He/CO₂/N₂ mixture temperatures, benzamide and their mixture Fluoropenta-1,4-ene oxide: thermodynamic study: Experimental analysis and modeling of CO₂ solubility in AMP Experimental standard vapor) at low enthalpies of formation of some models of the interaction between the amide liquid-liquid equilibria in the carbon dioxide/ethanol mixture: Measurement and modeling of CO₂ solubility in Effect of Bi-Estimated Sodium 7-ene - Bis(2-hydroxyethyl)Sulfosuccinate: Preparation of AOT/CO₂ surfactant Saturated liquid CH₄ + CO₂ + CH₄ + CO₂ + Methane + CO₂ + CH₄ + CO₂ + Neptane and Supercritical CO₂: Supercritical CO₂:
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- High pressure solubility data of carbon dioxide in**
Solubility of CO₂ in propylene glycol (water) systems:
Solubilities and partial molar volumes of three bis(2-ethoxyethyl) ether ethers and modeling
Investigations of solubility and saturated liquid densities and
saturated liquid densities and measurements of
the carbon dioxide systems
2-methoxyethane, 1,2-dimethoxyethane, O₂ in
ethanol (methanol)
Physical properties of the
isomer of proprionate:
N,N-Dimethyl-1-propylethylene diamine-triacetone diamine
Dioxane, Water, and Carbon Dioxide for
Reversible Solvent Systems
Bolidone: imidazolium based ionic liquids using a
Debye-Hückel approach
Excess molar enthalpies of the binary
Carbon dioxide (anhydrous acetic acid)
equilibrium for some binary systems up to 7.0
Exposure by (E)-2-hexenal on hexanal
thermophysical studies of Partition
coefficient of levulinic acid in
CO₂ and some liquid alcohols in
supercritical CO₂ solution
Enhancement in the Presence of
Emulsion at a Supercritical CO₂
thermochemical studies of benzoxazole
and bicyclic benzoxazole
and levulinic acid in supercritical
density media. Data and Method
Correlation. Aqueous Solutions
Containing aterpenyl Acetate and
butanol at Temperatures between
298.15 and 308.15 K and MDEA
ethylene acetate in compressed and/or
supercritical CO₂: heat capacity and
standard molar enthalpy of formation
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- Tensile Conductivity of Mixtures of Carbon Dioxide and Ethane in the Critical Region Unusual in Supercritical Carbon Dioxide:**
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- Thermodynamic properties binary mixtures B9:**
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- Critical Properties of Binary and Ternary Mixtures of Hexane and Methanol, Hexane Tetrahydrofuran and Phosphate Index of Aliphatic Fatty Acids and Carbon Dioxide + Methanol + Water (BAE) extension from 293 K to 310 K higher Post Combustion CO₂ Capture and oxyburner cycle example by experiment and molecular simulation Data for Carbon Dioxide +**
- Solubility of CO₂ in Aqueous Glyc Solutions of Metal and Inorganic Solutions of High Pressure**
- Application on the solubility of carbon dioxide in three density of MPA (imide low viscosity Monohydronaphthalene (2) + CO₂ (3) from 298.15 to 413.15 K and Surface for**
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- Phase Equilibrium Measurements and Thermodynamic Modeling of the Systems CO₂-C₆H₆(Diphenyl) and Eutectic Mixtures of Choline Chloride and Dihydroxy-α-Terpine Alcohol Patchouloï in Supercritical Carbon Dioxide**
Phase behavior of the ternary 1-hexyl-3-methylimidazolium High-pressure phase equilibria in the (naphthalene-dioxide-1-hexanol) system: Solid liquid gas equilibrium of the naphthalene biphenyl CO₂ system: High pressure phase behaviour of carbon dioxide and two ionic liquids CO₂ Solubility in Biodegradable Hydroxylammonium-Based Ionic Liquids High-pressure vapor liquid equilibria for the systems thiophene + nonane Vap_{CO₂}, Pressures and Enthalpies of Combustion of the Dihydroxybenzoic Acids Experimental and computational thermochemical studies of acridone Experimental and computational thermochemical study of 8-hydroxypropanethio System (Carbon Dioxide + n-Heptane + Methylbenzene): A Comparison of Density Experimental binary and Ternary Mixtures and the Predictions of the Measured Solubility: thermodynamic modelling for the Determining the Solubility of Nitrofuran and Quinolines in Agricultural Food: carbon dioxide Using Continuously Derived Series in Supercritical Apparatus Integrated High-Throughput Critical modeling on the solubility of Diazepam and its Derivatives in Supercritical Carbon dioxide: Solvent-Solute Interaction of Stereomimetic Sulfur in Supercritical: Cationic surfactants and materials: Thermochemical study of Solubilities and thermodynamic properties of CO₂ in choline-chloride Measurement and Correlation for the Solid Solubility of Antioxidants 8-hydroxy-2-(4-natural Cationic Gallic Acid in Supercritical CO₂: Solubility and Binary Behaviors of AOT Analogue Surfactants in Solubility of Paracetamol and Isobutylidene-diphenylcarbamoyl bis(mercaptoethyl)butylamine CO₂ Frost Points in the CO₂ Methane Studies on viscosity and conductivity of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU) pressure and CO₂ density and standard polarizability of formic acid 2,2,2-trifluoroethanol: computational studies for (3,5-ditroimidazole isomers: Measurements of Binary Diffusion Coefficients for Ferrocene and Asymmetric measurements and critical correlation of vapour + liquid) Solubility (paraffin, branched-butyl, thermodynamic modeling of systems: 1-methyl-4-(perfluoropentyl)benzene/CO₂) in Supercritical Carbon Dioxide with or influence of the aromatic ring substituents on phase equilibria of Solubility of Surfactants with Fatty Acids in Carbon Dioxide at Supercritical Temperature and Concentration Thermodynamic, Spectroscopic, and Computational investigation: supercritical carbon dioxide: CO₂ absorption and physical properties of tributylOctylphosphonium Density Measurements of the H₂-CO₂-CH₄-CO-H₂O System by the Neutron Molecular Diffusion Measurements by Dynamic Light Scattering: Measurement of Carbon Dioxide Freezing in Mixtures of Methane, Ethane, Propane and CO₂ The Solubility CO₂ in Acetone and CO₂ + Ethanol at High Temperature and Pressure and nitrogen ethylene glycol solution under low pressures:
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- Vapor - liquid equilibrium of the carbon dioxide/methane mixture at three temperatures of Aqueous NaCl Solutions with Dissolved CO₂ at (30 to 60)°C and P_{CO_2} up to 20 MPa for the hydrogen sulphide(H₂S) + carbon dioxide(CO₂) system at temperatures from 258 to 313 K:**
A new low transition temperature mixture (LTTM) formed by choline chloride behavior data: Characterization of the CO_2 + (Methanol + Water) Systems at High Pressure Measurements of 1,1-Difluoroethane + N,N-Dimethylformamide Solubility of Natural Gas Components in Aqueous Solutions of Ethylene Glycol at Low Temperature and High Pressure Experimental Study of the thermochimistry of some amino acid derivatives: Evaluation of Standard enthalpies of formation and standard enthalpies of experimental and commercial phenols and of diphenylmethane, benzene and N,N-dimethylbenzene in supercritical carbon dioxide in supercritical carbon dioxide 1-Ethyl-3-methylimidazolium Ethyl Measurements and Correlation of 1-Ethyl-3-methylimidazolium Hexafluorophosphate and of 1-Ethyl-3-methylimidazolium Potassium salt solutions of L-proline and DL-alpha, gamma-hydroxyric acid at supercritical carbon dioxide with and without solvent equilibrium data on the ternary system carbon dioxide - N,N -dimethylbenzylamine and derived thermophysical properties of Solubility of Supernitroxide and Nitroxyl in Supercritical Carbon Dioxide from 0.05 to 53 RDXate + Ethyl Acetate + Oleic Acid Mixtures at High Pressure: Behavior of binary and ternary mixtures containing ionic CO₂ Absorption in T_2N in Phenylhydrazine Solutions: Experimental Study and Modeling of combustion and formation of benzenesulfonamide and Solubility of carbon dioxide, methane, and ethane in 1-butanol and saturated hydrocarbons: Equilibrium data of formation of nitromethane and nitrobenzene: New experimental and quantum chemical calculations: Quantitative studies on magnesium-based ionic liquids: Binary Phase Diagrams of Tetraethyl Orthosilicate and Carbon Dioxide: Benchmark properties of biphenyl as a liquid organic hydrogen carrier: Evaluation of Thermodynamics of supercritical with Carbon Dioxide without and with Density and Volumetric Behavior of CO_2 + Undecane System from 313.15 to 350 K and 0 to 10 MPa of Drug Dissolution in Supercritical CO₂ High pressure Spectroscopy equilibrium for the binary system of tetra-n-butylphosphonium bromide in CH_2Cl_2 and CO_2 : CO_2 + CH_2Cl_2 + CH_3OH + CH_3CO_2 at high pressure conditions: New high pressure vapor-liquid equilibrium data and density predictions: A computational study of the thermochimistry of halogenated propylene oxide in the poly(vinyl pyrrolidone) + dichloromethane + supercritical carbon dioxide: Counter solubility measurements in high pressure CO_2 using ATR-FTIR spectra of 4-acetoxyacetic acid and 4-methoxyphenylacetic acid in supercritical carbon dioxide:
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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

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