

Diethyl carbonate

Other names:	C2H5OC(O)OC2H5 CARBONIC ACID,DIETHYL ESTER Carbonic acid, diethyl ester DEC DIATOL Diaethylcarbonat Diethyl ester of carbonic acid Diethylester kyseliny uhlicite Diethylkarbonat ETHYL CARBONATE Ethoxyformic anhydride Ethyl carbonate ((EtO)2CO) Eufin NCI-C60899 NSC 8849 UN 2366
Inchi:	InChI=1S/C5H10O3/c1-3-7-5(6)8-4-2/h3-4H2,1-2H3
InchiKey:	OIFBSDVPJOWBCH-UHFFFAOYSA-N
Formula:	C5H10O3
SMILES:	CCOC(=O)OCC
Mol. weight [g/mol]:	118.13
CAS:	105-58-8

Physical Properties

Property code	Value	Unit	Source
chl	-2672.50	kJ/mol	NIST Webbook
chl	-2715.17 ± 0.69	kJ/mol	NIST Webbook
gf	-347.70	kJ/mol	Joback Method
hf	-637.90 ± 0.80	kJ/mol	NIST Webbook
hf	-642.40 ± 2.20	kJ/mol	NIST Webbook
hfl	-681.50 ± 0.80	kJ/mol	NIST Webbook
hfl	-724.17	kJ/mol	NIST Webbook
hfus	12.68	kJ/mol	Joback Method
hvap	81.80	kJ/mol	NIST Webbook
hvap	43.60	kJ/mol	NIST Webbook
hvap	39.10	kJ/mol	NIST Webbook
hvap	43.60 ± 0.15	kJ/mol	NIST Webbook

hvap	43.60	kJ/mol	NIST Webbook
hvap	43.60 ± 0.20	kJ/mol	NIST Webbook
hvap	44.40 ± 0.20	kJ/mol	NIST Webbook
log10ws	-0.84		Crippen Method
logp	1.179		Crippen Method
mcvol	94.620	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpas	%!d(float64=1)		KDB
pc	3589.94	kPa	Joback Method
rinpol	769.00		NIST Webbook
rinpol	769.00		NIST Webbook
rinpol	765.00		NIST Webbook
rinpol	784.00		NIST Webbook
rinpol	768.00		NIST Webbook
rinpol	765.00		NIST Webbook
rinpol	765.00		NIST Webbook
rinpol	768.00		NIST Webbook
rinpol	747.00		NIST Webbook
rinpol	761.00		NIST Webbook
rinpol	747.00		NIST Webbook
rinpol	747.00		NIST Webbook
rinpol	785.00		NIST Webbook
ripol	1104.00		NIST Webbook
ripol	1083.00		NIST Webbook
ripol	1083.00		NIST Webbook
ripol	1100.00		NIST Webbook
ripol	1101.00		NIST Webbook
ripol	1116.00		NIST Webbook
ripol	1099.00		NIST Webbook
ripol	1103.00		NIST Webbook
ripol	1105.00		NIST Webbook
ripol	1105.00		NIST Webbook
ripol	1102.00		NIST Webbook
ripol	1099.00		NIST Webbook
ripol	1100.00		NIST Webbook
tb	399.60	K	Vapor-Liquid Equilibrium and Mixing Properties of Methanol + Diethyl Carbonate and Vinyl Acetate + Diethyl Carbonate Systems
tb	399.65	K	KDB
tb	399.32	K	Isobaric Phase Equilibria of Diethyl Carbonate with Five Alcohols at 101.3 kPa

tb	399.32	K	VLE of the binary systems (dimethyl carbonate with 2-propanol or 2-butanol) and (diethyl carbonate with methylcyclohexane) at 101.3 kPa
tc	578.10	K	Measurement of critical properties for binary and ternary mixtures containing potential gasoline additive diethyl carbonate (DEC)
tf	230.15	K	KDB
tf	196.40	K	Vapor Pressures and Thermophysical Properties of Dimethyl Carbonate, Diethyl Carbonate, and Dipropyl Carbonate
tf	195.86	K	Efficient determination of crystallisation and melting points at low cooling and heating rates with novel computer controlled equipment
vc	0.357	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.33	J/mol×K	591.12	Joback Method
cpg	224.02	J/mol×K	561.35	Joback Method
cpg	216.48	J/mol×K	531.58	Joback Method
cpg	208.73	J/mol×K	501.81	Joback Method
cpg	200.78	J/mol×K	472.05	Joback Method
cpg	192.64	J/mol×K	442.28	Joback Method
cpg	184.32	J/mol×K	412.51	Joback Method
cpl	240.30	J/mol×K	348.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure

cpl	222.30	J/molxK	303.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	223.40	J/molxK	308.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	225.30	J/molxK	313.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	226.60	J/molxK	318.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure

cpl	228.40	J/molxK	323.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	230.80	J/molxK	328.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	232.00	J/molxK	333.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	234.60	J/molxK	338.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure

cpl	237.60	J/molxK	343.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	219.90	J/molxK	293.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	242.50	J/molxK	353.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	245.50	J/molxK	358.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure

cpl	248.90	J/molxK	363.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	251.30	J/molxK	368.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	254.40	J/molxK	373.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
cpl	210.20	J/molxK	288.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure

cpl	211.49	J/molxK	293.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure
cpl	212.46	J/molxK	298.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure
cpl	213.83	J/molxK	303.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure
cpl	214.89	J/molxK	308.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure
cpl	215.80	J/molxK	313.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure

cpl	218.55	J/molxK	318.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure
cpl	220.32	J/molxK	323.15	Densities, Viscosities, Refractive Indices, and Heat Capacities of Poly(ethylene glycol-ran-propylene glycol) + Esters of Carbonic Acid at (293.15 and 313.15) K and at Atmospheric Pressure
cpl	210.90	J/molxK	294.20	NIST Webbook
cpl	210.90	J/molxK	294.70	NIST Webbook
cpl	182.00	J/molxK	298.00	NIST Webbook
cpl	221.20	J/molxK	298.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, Viscosities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure
dvisc	0.0006950	Paxs	303.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0006100	Paxs	313.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K

dvisc	0.0005410	Paxs	323.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0004830	Paxs	333.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0004350	Paxs	343.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0003930	Paxs	353.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0003580	Paxs	363.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0008000	Paxs	293.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method

dvisc	0.0007460	Paxs	298.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method
dvisc	0.0006950	Paxs	303.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method
dvisc	0.0006100	Paxs	313.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method
dvisc	0.0005410	Paxs	323.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method

dvisc	0.0004830	Paxs	333.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method
dvisc	0.0004350	Paxs	343.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method
dvisc	0.0003930	Paxs	353.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method
dvisc	0.0003580	Paxs	363.15	Density and Viscosity of Binary Mixtures of Diethyl Carbonate with Alcohols at (293.15 to 363.15) K and Predictive Results by UNIFAC-VISCO Group Contribution Method
dvisc	0.0008640	Paxs	288.15	Densities and Viscosities of Four Binary Diethyl Carbonate + 1-Alcohol Systems from (288.15 to 313.15) K

dvisc	0.0008030	Paxs	293.15	Densities and Viscosities of Four Binary Diethyl Carbonate + 1-Alcohol Systems from (288.15 to 313.15) K
dvisc	0.0007570	Paxs	298.15	Densities and Viscosities of Four Binary Diethyl Carbonate + 1-Alcohol Systems from (288.15 to 313.15) K
dvisc	0.0007000	Paxs	303.15	Densities and Viscosities of Four Binary Diethyl Carbonate + 1-Alcohol Systems from (288.15 to 313.15) K
dvisc	0.0006160	Paxs	313.15	Densities and Viscosities of Four Binary Diethyl Carbonate + 1-Alcohol Systems from (288.15 to 313.15) K
dvisc	0.0007460	Paxs	298.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0008000	Paxs	293.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K
dvisc	0.0008010	Paxs	293.15	Densities and Viscosities of Diethyl Carbonate + Toluene, + Methanol, and + 2-Propanol from (293.15 to 363.15) K

dvisc	0.0006180	Paxs	313.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures
dvisc	0.0006580	Paxs	308.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures
dvisc	0.0007020	Paxs	303.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures
dvisc	0.0008090	Paxs	293.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures
dvisc	0.0007500	Paxs	298.15	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures
hfust	9.24	kJ/mol	198.20	NIST Webbook
hvapt	44.30	kJ/mol	331.00	NIST Webbook
hvapt	39.10	kJ/mol	338.00	NIST Webbook
hvapt	40.90	kJ/mol	354.00	NIST Webbook
hvapt	39.70	kJ/mol	377.50	NIST Webbook
hvapt	42.30	kJ/mol	371.00	NIST Webbook
pvap	1.45	kPa	298.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates

pvap	2.45	kPa	306.80	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	2.69	kPa	307.80	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	2.64	kPa	308.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	2.69	kPa	308.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	2.67	kPa	308.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	3.07	kPa	310.90	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	3.65	kPa	313.30	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	3.96	kPa	315.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	3.95	kPa	315.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.40	kPa	277.96	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction

pvap	0.52	kPa	282.06	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	0.67	kPa	286.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	0.80	kPa	288.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	1.03	kPa	293.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	1.41	kPa	298.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction

pvap	1.84	kPa	303.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	2.35	kPa	306.64	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	3.01	kPa	310.74	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	4.58	kPa	318.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	6.17	kPa	323.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction

pvap	7.16	kPa	328.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	9.09	kPa	333.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	11.56	kPa	338.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	13.78	kPa	343.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	16.09	kPa	348.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction

pvap	20.83	kPa	353.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction
pvap	45.10	kPa	373.00	Isothermal (vapour + liquid) equilibrium (VLE) for binary mixtures containing diethyl carbonate, phenyl acetate, diphenyl carbonate, or ethyl acetate
pvap	143.00	kPa	412.50	Isothermal (vapour + liquid) equilibrium (VLE) for binary mixtures containing diethyl carbonate, phenyl acetate, diphenyl carbonate, or ethyl acetate
pvap	361.00	kPa	452.20	Isothermal (vapour + liquid) equilibrium (VLE) for binary mixtures containing diethyl carbonate, phenyl acetate, diphenyl carbonate, or ethyl acetate
pvap	1.49	kPa	298.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	2.61	kPa	308.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems

pvap	3.43	kPa	313.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems	
pvap	4.46	kPa	318.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems	
pvap	5.75	kPa	323.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems	
pvap	1.99	kPa	303.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems	
pvap	2.65	kPa	308.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems	
pvap	3.45	kPa	313.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems	

pvap	4.51	kPa	318.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems
pvap	5.83	kPa	323.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems
pvap	101.30	kPa	399.60	Vapor-Liquid Equilibrium and Mixing Properties of Methanol + Diethyl Carbonate and Vinyl Acetate + Diethyl Carbonate Systems
pvap	22.56	kPa	354.68	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	25.03	kPa	357.44	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	27.54	kPa	359.95	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer

pvap	29.99	kPa	362.26	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	32.51	kPa	364.46	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	35.05	kPa	366.57	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	37.52	kPa	368.45	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	40.03	kPa	370.28	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	42.49	kPa	372.04	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	45.05	kPa	373.73	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer

pvap	47.47	kPa	375.26	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	50.04	kPa	376.81	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	52.46	kPa	378.22	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	55.03	kPa	379.67	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	57.56	kPa	381.03	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	59.95	kPa	382.32	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	62.52	kPa	383.60	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer

pvap	64.97	kPa	384.81	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	67.44	kPa	385.98	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	70.02	kPa	387.13	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	72.51	kPa	388.28	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	74.96	kPa	389.32	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	77.43	kPa	390.35	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	79.97	kPa	391.39	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer

pvap	82.52	kPa	392.45	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	84.84	kPa	393.34	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	87.52	kPa	394.36	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	89.81	kPa	395.23	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	92.53	kPa	396.21	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	94.89	kPa	397.03	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	97.54	kPa	397.96	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer

pvap	100.03	kPa	398.81	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	101.38	kPa	399.27	Phase Equilibria Involved in the Extractive Distillation of Cyclohexane + Cyclohexene Using Diethyl Carbonate as an Entrainer
pvap	13.80	kPa	343.77	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	19.30	kPa	351.67	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	22.70	kPa	355.63	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	26.00	kPa	358.29	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate

pvap	31.30	kPa	363.84	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	35.20	kPa	366.98	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	39.10	kPa	369.75	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	42.80	kPa	372.28	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	46.50	kPa	374.61	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	50.50	kPa	377.05	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate

pvap	55.00	kPa	379.59	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	58.80	kPa	381.49	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	63.10	kPa	383.37	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	63.50	kPa	383.57	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	68.50	kPa	386.18	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	72.80	kPa	387.61	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate

pvap	78.50	kPa	390.35	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	84.00	kPa	392.39	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	88.20	kPa	393.93	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	93.40	kPa	395.72	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	101.50	kPa	398.28	Density, Viscosity, and Vapor Pressure for Binary Mixtures of Tricyclo [5.2.1.02.6] Decane and Diethyl Carbonate
pvap	1.45	kPa	296.80	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.06	kPa	293.30	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates

pvap	1.08	kPa	293.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.04	kPa	293.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.03	kPa	293.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.04	kPa	293.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.99	kPa	303.30	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.05	kPa	293.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.02	kPa	291.80	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.78	kPa	288.40	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.83	kPa	288.30	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.79	kPa	288.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.78	kPa	286.80	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.63	kPa	285.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates

pvap	0.56	kPa	283.30	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.58	kPa	283.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.56	kPa	282.40	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.41	kPa	278.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.41	kPa	278.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.38	kPa	277.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.36	kPa	276.50	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.35	kPa	276.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.33	kPa	275.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.31	kPa	274.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.30	kPa	274.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	0.29	kPa	273.30	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates

pvap	0.29	kPa	273.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	30.23	kPa	363.15	Isothermal vapor liquid and vapor liquid liquid equilibrium for the ternary system ethanol + water + diethyl carbonate and constituent binary systems at different temperatures
pvap	20.74	kPa	353.15	Isothermal vapor liquid and vapor liquid liquid equilibrium for the ternary system ethanol + water + diethyl carbonate and constituent binary systems at different temperatures
pvap	2.06	kPa	303.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.52	kPa	298.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	2.01	kPa	303.00	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.91	kPa	301.80	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
pvap	1.54	kPa	298.20	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates

pvap	1.95	kPa	303.15	Measurement and Correlation of Isothermal Binary Vapor Liquid Equilibrium for Diethyl Carbonate + Isooctane/n-Heptane/Toluene Systems
pvap	2.02	kPa	303.10	Vapour pressure and enthalpy of vaporization of aliphatic dialkyl carbonates
rfi	1.38450		293.15	Densities and derived thermodynamic properties of binary mixtures of diethylcarbonate, acetophenone, and 1-hexanol at T = (293.15 to 323.15) K for the liquid region and at ambient pressure
rfi	1.38300		293.15	Vapor liquid equilibria of carbon dioxide with isopropyl acetate, diethyl carbonate and ethyl butyrate at elevated pressures
rfi	1.38450		293.15	Densities, Viscosities, Speeds of Sound, and Refractive Indices for Binary Mixtures of Diethylcarbonate, Acetophenone, and 1-Hexanol at (293.15, 303.15, 313.15, and 323.15) K for the Liquid Region and at Ambient Pressure

rfi	1.38300		298.15	Viscosities, Ultrasonic Velocities at (288.15 and 298.15) K, and Refractive Indices at (298.15) K of Binary Mixtures of 2,4,6-Trimethyl-1,3,5-trioxane with Dimethyl Carbonate, Diethyl Carbonate, and Propylene Carbonate
rfi	1.38280		298.15	Properties of ionic liquid HMIMPF ₆ with carbonates, ketones and alkyl acetates
rfi	1.38210		298.15	Isobaric Vapor-Liquid Equilibria of Binary Mixtures of Diethyl Carbonate with Methyl Acetate, n-Propyl Acetate, or Amyl Acetate at 100.17 kPa
rhoI	957.98	kg/m ³	308.15	Permittivity and density of binary systems of {dimethyl or diethyl carbonate} + n-dodecane from T=(288.15 to 328.15) K
rhoI	935.08	kg/m ³	328.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC
rhoI	940.86	kg/m ³	323.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC
rhoI	946.60	kg/m ³	318.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC

rho1	952.32	kg/m3	313.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC	
rho1	958.00	kg/m3	308.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC	
rho1	963.66	kg/m3	303.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC	
rho1	969.30	kg/m3	298.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC	
rho1	974.91	kg/m3	293.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC	
rho1	980.49	kg/m3	288.15	Excess Molar Volume and Viscosity Deviation of [C2mim][NTf2]/[C4mim][NTf2] + DMC/DEC	
rho1	969.08	kg/m3	298.15	Evaluation of Diethyl Carbonate and Methyl Isobutyl Ketone as Entrainers for the Separation of 1-Hexene and n-Hexane	
rho1	967.83	kg/m3	298.15	Isobaric Vapor Liquid Equilibrium for the Binary Systems of Diethyl Carbonate with Xylene Isomers and Ethylbenzene at 101.33 kPa	

rhoI	969.00	kg/m3	298.15	Isobaric Vapor Liquid Equilibria for Binary Systems of Diethyl Carbonate + Propylene Carbonate, Diethyl Carbonate + Propylene Glycol, and Ethanol + Propylene Carbonate at 101.3 kPa
rhoI	969.32	kg/m3	298.15	Influence of alkyl group and temperature on thermophysical properties of carboxylic acid and their binary mixtures
rhoI	935.20	kg/m3	328.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate
rhoI	940.90	kg/m3	323.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate
rhoI	946.70	kg/m3	318.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate
rhoI	952.40	kg/m3	313.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate
rhoI	958.00	kg/m3	308.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate

rhoI	963.70	kg/m3	303.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate
rhoI	969.30	kg/m3	298.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate
rhoI	974.90	kg/m3	293.15	Density and viscosity of four binary mixtures of [C2mmim][NTf2]/[C4mmim][NTf2] + dimethyl carbonate/diethyl carbonate
rhoI	940.70	kg/m3	323.15	Thermophysical and optical studies of molecular interactions in binary mixtures of diethyl carbonate with aromatic compounds at temperatures from 298.15 to 323.15 K
rhoI	946.40	kg/m3	318.15	Thermophysical and optical studies of molecular interactions in binary mixtures of diethyl carbonate with aromatic compounds at temperatures from 298.15 to 323.15 K
rhoI	952.10	kg/m3	313.15	Thermophysical and optical studies of molecular interactions in binary mixtures of diethyl carbonate with aromatic compounds at temperatures from 298.15 to 323.15 K

rhoI	957.80	kg/m3	308.15	Thermophysical and optical studies of molecular interactions in binary mixtures of diethyl carbonate with aromatic compounds at temperatures from 298.15 to 323.15 K
rhoI	963.50	kg/m3	303.15	Thermophysical and optical studies of molecular interactions in binary mixtures of diethyl carbonate with aromatic compounds at temperatures from 298.15 to 323.15 K
rhoI	969.10	kg/m3	298.15	Thermophysical and optical studies of molecular interactions in binary mixtures of diethyl carbonate with aromatic compounds at temperatures from 298.15 to 323.15 K
rhoI	970.00	kg/m3	298.15	Low pressure carbon dioxide solubility in lithium-ion batteries based electrolytes as a function of temperature. Measurement and prediction
rhoI	935.12	kg/m3	328.15	Permittivity and density of binary systems of {dimethyl or diethyl carbonate} + n-dodecane from T=(288.15 to 328.15) K

rhoI	969.10	kg/m3	298.15	Viscosities of Dimethyl Carbonate or Diethyl Carbonate with Alkanes at Four Temperatures. New UNIFAC-VISCO Parameters
rhoI	952.15	kg/m3	313.15	Densities and Surface Tensions of Trimethylbenzene + Dimethyl Carbonate or + Diethyl Carbonate at 298.15 K and 313.15 K
rhoI	947.67	kg/m3	318.15	Permittivity and density of binary systems of {dimethyl or diethyl carbonate} + n-dodecane from T=(288.15 to 328.15) K
rhoI	969.12	kg/m3	298.15	Densities and Surface Tensions of Trimethylbenzene + Dimethyl Carbonate or + Diethyl Carbonate at 298.15 K and 313.15 K
rhoI	957.90	kg/m3	308.15	Excess Enthalpies, Densities, Viscosities, and Refractive Indices of Binary Mixtures Involving Some Poly(glycols) + Diethyl Carbonate at 308.15 K
rhoI	952.43	kg/m3	313.15	Densities, Viscosities, and Refractive Indices of New Mixtures of Poly(ethylene glycols) + Dialkyl Carbonates at 313.15 K

rhoI	969.10	kg/m3	298.15	Dynamic Viscosities of Diethyl Carbonate with Linear and Secondary Alcohols at Several Temperatures
rhoI	969.18	kg/m3	298.15	Solid-liquid equilibria for selected binary systems containing diphenyl carbonate
rhoI	980.29	kg/m3	288.15	Permittivity and density of binary systems of {dimethyl or diethyl carbonate} + n-dodecane from T=(288.15 to 328.15) K
rhoI	974.57	kg/m3	293.15	Permittivity and density of binary systems of {dimethyl or diethyl carbonate} + n-dodecane from T=(288.15 to 328.15) K
rhoI	969.07	kg/m3	298.15	Permittivity and density of binary systems of {dimethyl or diethyl carbonate} + n-dodecane from T=(288.15 to 328.15) K
rhoI	963.60	kg/m3	303.15	Permittivity and density of binary systems of {dimethyl or diethyl carbonate} + n-dodecane from T=(288.15 to 328.15) K
rhoI	969.23	kg/m3	298.15	Excess Properties of Binary Mixtures of Esters of Carbonic Acid + Three Aryl Alcohols at 308.15 K

speedsl	1178.00	m/s	298.15	Vapor liquid equilibria for systems of diethyl carbonate and ketones and determination of group interaction parameters for the UNIFAC and ASOG methods
srf	0.02	N/m	338.17	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	348.17	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	353.19	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	358.18	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	363.16	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	368.18	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	373.17	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	298.15	Surface tension, density, and speed of sound for the ternary mixture {diethyl carbonate + p-xylene + decane}

srf	0.02	N/m	308.15	Surface Tension of Dialkyl Carbonates + (Alkanes or 1,4-Dimethylbenzene) and 1,4-Dimethylbenzene + Alkanes Binary Mixtures at T = 308.15 K
srf	0.02	N/m	333.18	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	328.12	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	323.16	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	318.16	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	313.19	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	308.11	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	303.17	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.02	N/m	343.17	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate

srf	0.03	N/m	298.10	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	293.16	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	288.18	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	278.18	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	283.18	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate
srf	0.03	N/m	273.18	Surface tension of diethyl carbonate, 1,2-dimethoxyethane and diethyl adipate

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	1.76598e+02
Coeff. B	-1.16692e+04
Coeff. C	-2.43764e+01
Coeff. D	2.02849e-05
Temperature range (K), min.	230.15
Temperature range (K), max.	576.00

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
288.15	100.00	980.3
288.15	5000.00	984.5
288.15	10000.00	988.6
288.15	20000.00	996.3
288.15	30000.00	1003.6
288.15	40000.00	1010.5
298.15	100.00	968.9
298.15	5000.00	973.8
298.15	10000.00	977.8
298.15	20000.00	986.0
298.15	30000.00	993.6
298.15	40000.00	1000.8
308.15	100.00	957.7
308.15	5000.00	962.4
308.15	10000.00	967.1
308.15	20000.00	975.7
308.15	30000.00	983.8
308.15	40000.00	991.3
Reference		https://www.doi.org/10.1016/j.jct.2012.11.011

Temperature, K	Pressure, kPa	Mass density, kg/m3
298.15	100.00	969.3
Reference		https://www.doi.org/10.1016/j.jct.2014.06.004

Temperature, K	Pressure, kPa	Mass density, kg/m3
298.15	100.00	969.4
Reference		https://www.doi.org/10.1021/acs.jced.9b00430

Sources

Low pressure carbon dioxide solubility in pure electrolyte solvents for sodium-ion batteries as a function of the properties of dimethyl carbonate, diethyl carbonate, and dipropyl carbonate. New Mixtures of Poly(ethylene glycol) and dimethyl carbonate with 2-propanol or 2-butanol) and their viscosity with Four Binary Carbonate + 1,3-Alcohol Systems from 298.15 to 313.15 K: Sound, and Refractive Indices for Binary Mixtures of Lithium-Ion Battery Systems in the Presence of Poly(ethylene glycol) and 1,3-Alcohol Systems from 298.15 to 313.15 K for the Liquid Region and at Ambient Pressures and Surface Tensions of Trimethylbenzene + Dimethyl carbonate and Diethyl carbonate liquid-liquid equilibrium for the ternary system ethanol + water + diethyl carbonate at different temperatures. Water + Diethyl Carbonate + Ethanol System at Different Temperatures:

Dynamic Viscosities of Diethyl Carbonate with Linear and Secondary Alcohols at Several Temperatures for Binary Systems of Diethyl Carbonate + Polymeric Compounds, Diethyl Carbonate + Polymers mixtures at high pressures. Equilibrium for a ternary system of water + diethyl carbonate + dimethyl carbonate. The extraction of cyclohexane + carbon dioxide using dimethyl carbonate as a solvent for lithium-ion batteries based solvents and electrolytes. Density and viscosity dependence. Measurement and Refractive Indices of Diethyl Carbonate + p-xylene + octane) ternary systems. Low pressure carbon dioxide solubility in lithium-ion batteries based electrolytes as a function of the properties of dimethyl carbonate, diethyl carbonate, and dipropyl carbonate. New Mixtures of Poly(ethylene glycol) and 1,3-Alcohol Systems from 298.15 to 313.15 K for the Liquid Region and at Ambient Pressures and Surface Tensions of Trimethylbenzene + Dimethyl carbonate and Diethyl carbonate liquid-liquid equilibrium for the ternary system ethanol + water + diethyl carbonate at different temperatures. Water + Diethyl Carbonate + Ethanol System at Different Temperatures:

Vapor liquid equilibria for systems of diethyl carbonate and ketones and benzene and diethyl carbonate systems. Vapor liquid equilibrium for binary mixtures containing diethyl carbonate, phenyl acetate, diphenyl carbonate, or ethyl acetate:

<https://www.doi.org/10.1016/j.jct.2012.01.027>
<https://www.doi.org/10.1021/acs.jced.7b00295>
<https://www.doi.org/10.1021/je034159d>
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[illegible]

Legend

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
nfpas:	NFPA Safety Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhof:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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