Propylene Carbonate

Other names: 1,2-PDC

1,2-Propanediol carbonate

1,2-Propanediol cyclic carbonate

1,2-Propanediyl carbonate1,2-Propylene carbonate

1,2-Propylene glycol carbonate 1,3-Dioxolan-2-one, 4-methyl-1-Methylethylene carbonate 4-Methyl-1,3-dioxol-2-one 4-Methyl-1,3-dioxolan-2-one 4-Methyl-2-oxo-1,3-dioxolane

4-Methyldioxalone-2

Arconate 5000

Arconate propylene carbonate

Carbonic acid cyclic methylethylene ester Carbonic acid, cyclic propylene ester

Carbonic acid, propylene ester Cyclic 1,2-propylene carbonate Cyclic methylethylene carbonate

Cyclic propylene carbonate Dipropylene carbonate

NSC 11784 PC-HP

Propylene glycol cyclic carbonate Propylenester kyseliny uhlicite

Solvenon PC Texacar PC

InChl=1S/C4H6O3/c1-3-2-6-4(5)7-3/h3H,2H2,1H3

InchiKey: RUOJZAUFBMNUDX-UHFFFAOYSA-N

Formula: C4H6O3

SMILES: CC1COC(=O)O1

Mol. weight [g/mol]: 102.09 CAS: 108-32-7

Physical Properties

Property code Value Unit Source

chl -1799.70 ± 2.10 kJ/mol kJ/mol kJ/mol k NIST Webbook and Compressibilities of the Mixtures of Accolurating and Compressibilities of the Mixtures of Accolurating and Compressibilities of the Mixtures of Accolurating and Propylene Carbonate gf -275.48 kJ/mol Joback Method hf -582.50 ± 2.50 kJ/mol NIST Webbook hfl -613.00 ± 1.00 kJ/mol NIST Webbook hfl -631.80 ± 2.10 kJ/mol NIST Webbook hfl -631.80 ± 2.10 kJ/mol NIST Webbook hfus 15.52 kJ/mol NIST Webbook hvap 30.70 ± 2.10 kJ/mol NIST Webbook hvap 49.30 kJ/mol NIST Webbook hvap 61.30 ± 0.10 kJ/mol NIST Webbook hvap 71.20 ± 0.60 kJ/mol NIST Webbook hvap 71.20 ± 0.60 kJ/mol NIST Webbook hvap 61.50 ± 0.30 kJ/mol NIST Webbook	chl	-1818.00 ± 1.00	kJ/mol	NIST Webbook
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	VC	0.249	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	195.81	J/mol×K	650.09	Joback Method

cpg	142.54	J/mol×K	427.92	Joback Method
cpg	152.33	J/mol×K	464.95	Joback Method
cpg	161.78	J/mol×K	501.98	Joback Method
cpg	170.87	J/mol×K	539.01	Joback Method
cpg	179.59	J/mol×K	576.04	Joback Method
cpg	187.91	J/mol×K	613.07	Joback Method
cpl	174.14	J/mol×K	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	190.91	J/mol×K	393.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates
cpl	167.40	J/mol×K	298.15	NIST Webbook
cpl	167.60	J/mol×K	298.15	NIST Webbook
срІ	176.61	J/mol×K	333.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates
cpl	172.22	J/mol×K	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	170.79	J/mol×K	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	169.48	J/mol×K	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	167.97	J/mol×K	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	166.28	J/mol×K	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	178.66	J/mol×K	343.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	205.10	J/mol×K	423.15	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	183.76	J/mol×K	363.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	175.00	J/mol×K	298.00	NIST Webbook	

cpl	177.45	J/mol×K	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	175.87	J/mol×K	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	180.70	J/mol×K	353.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	170.49	J/mol×K	303.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	172.53	J/mol×K	313.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	174.57	J/mol×K	323.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	185.80	J/mol×K	373.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	188.86	J/mol×K	383.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	

cpl	203.60	J/mol×K	418.15	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	174.10	J/mol×K	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	174.90	J/mol×K	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	
cpl	175.70	J/mol×K	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	176.70	J/mol×K	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	201.00	J/mol×K	408.15	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	179.00	J/mol×K	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	180.00	J/mol×K	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	181.60	J/mol×K	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	182.30	J/mol×K	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	183.30	J/mol×K	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	184.50	J/mol×K	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	184.10	J/mol×K	323.15	NIST Webbook	

cpl	185.10	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	186.20	J/mol×K	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	187.40	J/mol×K	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	189.50	J/mol×K	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	192.70	J/mol×K	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	193.00	J/mol×K	378.15	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	194.30	J/mol×K	383.15	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	195.60	J/mol×K	388.15	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	197.30	J/mol×K	393.15	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	198.20	J/mol×K	398.15	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	190.80	J/mol×K	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	199.90	J/mol×K	403.15	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	177.80	J/mol×K	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	202.30	J/mol×K	413.15	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	0.0017500	Paxs	318.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gammabutyrolactone and propylene carbonate
dvisc	0.0025000	Paxs	298.15	Viscosity Behavior of Some Oxygen Containing Compounds
dvisc	0.0020730	Paxs	308.15	Viscosity Behavior of Some Oxygen Containing Compounds
dvisc	0.0025200	Paxs	298.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gammabutyrolactone and propylene carbonate
dvisc	0.0022700	Paxs	303.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gammabutyrolactone and propylene carbonate

dvisc	0.0020800	Paxs	308.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gammabutyrolactone and propylene carbonate
dvisc	0.0019100	Paxs	313.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gammabutyrolactone and propylene carbonate
dvisc	0.0016200	Pa×s	323.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gammabutyrolactone and propylene carbonate
dvisc	0.0030860	Paxs	288.15	Densities and Viscosities of Binary Mixtures of Paraldehyde + Propylene Carbonate at (288.15, 293.15, 298.15, 303.15, and 308.15) K
dvisc	0.0024990	Paxs	298.15	Densities and Viscosities of Binary Mixtures of Paraldehyde + Propylene Carbonate at (288.15, 293.15, 298.15, 303.15, and 308.15) K
dvisc	0.0022710	Paxs	303.15	Densities and Viscosities of Binary Mixtures of Paraldehyde + Propylene Carbonate at (288.15, 293.15, 298.15, 303.15, and 308.15) K
dvisc	0.0020730	Paxs	308.15	Densities and Viscosities of Binary Mixtures of Paraldehyde + Propylene Carbonate at (288.15, 293.15, 298.15, 303.15, and 308.15) K

dvisc	0.0027620	Paxs	293.15	Densities and Viscosities of Binary Mixtures of Paraldehyde + Propylene Carbonate at (288.15, 293.15, 298.15, 303.15, and 308.15) K
dvisc	0.0030860	Paxs	288.15	Viscosity Behavior of Some Oxygen Containing Compounds
hfust	9.62	kJ/mol	218.20	NIST Webbook
hfust	9.62	kJ/mol	224.85	NIST Webbook
hfust	9.62	kJ/mol	224.85	NIST Webbook
hfust	8.96	kJ/mol	220.30	NIST Webbook
hfust	8.01	kJ/mol	156.50	NIST Webbook
hfust	9.62	kJ/mol	218.20	NIST Webbook
hvapt	54.40	kJ/mol	439.00	NIST Webbook
hvapt	53.00	kJ/mol	415.00	NIST Webbook
hvapt	55.20	kJ/mol	415.00	NIST Webbook
hvapt	57.80	kJ/mol	415.00	NIST Webbook
hvapt	33.80	kJ/mol	346.50	NIST Webbook
hvapt	55.20	kJ/mol	323.00	NIST Webbook
hvapt	55.23	kJ/mol	423.00	NIST Webbook
pvap	50.00	kPa	485.91	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)
pvap	10.78	kPa	433.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	8.96	kPa	428.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	24.08	kPa	458.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	7.45	kPa	423.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide

pvap	6.23	kPa	418.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	5.15	kPa	413.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	4.26	kPa	408.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	3.48	kPa	403.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	2.83	kPa	398.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	2.28	kPa	393.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	1.86	kPa	388.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	1.17	kPa	378.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.92	kPa	373.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.72	kPa	368.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.56	kPa	363.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.44	kPa	358.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.33	kPa	353.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.25	kPa	348.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide

pvap	0.29	kPa	353.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction	
pvap	0.22	kPa	348.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction	
pvap	0.18	kPa	343.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction	
pvap	0.12	kPa	338.15	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction	
pvap	0.08	kPa	331.22	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction	

pvap	0.06	kPa	327.12	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction	
pvap	0.22	kPa	344.90	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	0.18	kPa	341.80	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	12.69	kPa	438.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamic	de
pvap	0.15	kPa	338.80	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	0.14	kPa	337.70	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	0.13	kPa	335.70	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	0.10	kPa	332.70	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	0.07	kPa	326.60	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	0.06	kPa	324.20	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	0.05	kPa	322.70	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	

pvap 0.05 kPa 321.20 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.04 kPa 318.20 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.03 kPa 313.20 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.02 kPa 311.30 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.02 kPa 311.30 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.02 kPa 308.20 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.01 kPa 303.30 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 8.50e-03 kPa 298.40 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 8.50e-03 kPa 298.40 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 14.81 kPa 443.15 Vapour pressures of Propylene Carbonates pvap 17.81 kPa 448.15 Vapor pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 20.50 kPa 453.15 Vapor pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide						
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and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.02 kPa 308.20 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.01 kPa 303.30 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 8.50e-03 kPa 298.40 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 8.50e-03 kPa 298.40 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 14.81 kPa 443.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 17.81 kPa 448.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 20.50 kPa 453.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N.N-Dimethylacetamide	pvap	0.03	kPa	313.20	and enthalpy of vaporization of cyclic alkylene	
pvap 0.01 kPa 303.30 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 0.01 kPa 303.30 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 8.50e-03 kPa 298.40 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates pvap 14.81 kPa 443.15 Vapour pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 17.81 kPa 448.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 20.50 kPa 453.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide	pvap	0.02	kPa	311.30	and enthalpy of vaporization of cyclic alkylene	
and enthalpy of vaporization of cyclic alkylene carbonates Pvap 8.50e-03 kPa 298.40 Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates Pvap 14.81 kPa 443.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 17.81 kPa 448.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 20.50 kPa 453.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide	pvap	0.02	kPa	308.20	and enthalpy of vaporization of cyclic alkylene	
pvap 14.81 kPa 443.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 20.50 kPa 453.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide	pvap	0.01	kPa	303.30	and enthalpy of vaporization of cyclic alkylene	
of Propylene Carbonate and N,N-Dimethylacetamide Pvap 17.81 kPa 448.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 20.50 kPa 453.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide Pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and Carbonate and Carbonate and Carbonate and Carbonate and	pvap	8.50e-03	kPa	298.40	and enthalpy of vaporization of cyclic alkylene	
of Propylene Carbonate and N,N-Dimethylacetamide pvap 20.50 kPa 453.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide	pvap	14.81	kPa	443.15	of Propylene Carbonate and	le
pvap 27.96 kPa 463.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and	pvap	17.81	kPa	448.15	of Propylene Carbonate and	le
pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 33.01 kPa 468.15 Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and	pvap	20.50	kPa	453.15	of Propylene Carbonate and	le
of Propylene Carbonate and N,N-Dimethylacetamide pvap 37.77 kPa 473.15 Vapor Pressures of Propylene Carbonate and	pvap	27.96	kPa	463.15	of Propylene Carbonate and	le
of Propylene Carbonate and	pvap	33.01	kPa	468.15	of Propylene Carbonate and	le
	pvap	37.77	kPa	473.15	of Propylene Carbonate and	le

pvap	4.00	kPa	407.97	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)	
pvap	10.00	kPa	432.45	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)	
pvap	12.00	kPa	437.77	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)	
pvap	20.00	kPa	453.60	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)	
pvap	30.00	kPa	467.23	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)	
рvар	40.00	kPa	477.53	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)	

pvap	0.08	kPa	329.60	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates
pvap	0.17	kPa	340.80	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates
rfi	1.41900		298.15	Liquid-liquid equilibrium study for the system (water + phosphoric acid + propylene carbonate) at different temperatures
rfi	1.42095		293.15	The volumetric properties of (1,2-propanediol carbonate + benzene, or toluene, or styrene) binary mixtures at temperatures from T = 293.15 K to T = 353.15 K
rfi	1.42030		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	6-Trimethyl-1,3,5-trioxane with Dimethyl Carbonate, Diethyl Carbonate, and Propylene Carbonate
rhol	1162.50	kg/m3	333.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids
rhol	1215.55	kg/m3	283.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids

rhol	1188.89	kg/m3	308.15	Excess Properties of Binary Mixtures of Esters of Carbonic Acid +	
				Three Aryl Alcohols at 308.15 K	
rhol	1204.00	kg/m3	298.15	Isobaric Vapor-liquid Equilibrium for Three Binary Systems of Ethyl Acetate + Propyl Acetate + Propylene Carbonate, and Propyl Acetate + Propylene Carbonate at 101.3 kPa	
rhol	1130.73	kg/m3	363.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1141.33	kg/m3	353.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1151.92	kg/m3	343.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1200.25	kg/m3	293.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	
rhol	1173.08	kg/m3	323.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids	

rhol	1183.67	kg/m3	313.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids	
rhol	1194.27	kg/m3	303.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1199.58	kg/m3	298.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1204.89	kg/m3	293.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1220.90	kg/m3	278.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1226.25	kg/m3	273.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
rhol	1197.60	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	

rhol	1199.49	kg/m3	298.15 lonic molar volumes in methanol mixtures with acetonitrile, N,N-dimethylformamide and propylene carbonate at T = 298.15 K
rhol	1171.96	kg/m3	323.15 Density, electrical conductivity, viscosity and excess properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
rhol	1177.55	kg/m3	318.15 Density, electrical conductivity, viscosity and excess properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
rhol	1183.11	kg/m3	313.15 Density, electrical conductivity, viscosity and excess properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
rhol	1188.57	kg/m3	308.15 Density, electrical conductivity, viscosity and excess properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
rhol	1194.00	kg/m3	303.15 Density, electrical conductivity, viscosity and excess properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide + propylene carbonate binary mixtures

rhol	1199.02	kg/m3		Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazoliun + propylene carbonate binary mixtures	
rhol	1204.81	kg/m3	293.15 1-bı bis(tri	Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazoliun fluoromethylsulfonyl)imi + propylene carbonate binary mixtures	n ide
rhol	1141.60	kg/m3	353.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	
rhol	1152.30	kg/m3	343.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	
rhol	1162.90	kg/m3	333.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	
rhol	1173.40	kg/m3	323.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	

rhol	1183.90	kg/m3	313.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	
rhol	1194.50	kg/m3	303.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	
rhol	1205.20	kg/m3	293.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	
rhol	1216.30	kg/m3	283.15	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid + propylene carbonate) binary mixture	
rhol	1088.38	kg/m3	353.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	
rhol	1105.98	kg/m3	343.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	

rhol	1142.43	kg/m3	323.15	Excess volumes	
IIIOI	1142.43	кулпо	323.13	and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	
rhol	1161.28	kg/m3	313.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	
rhol	1180.56	kg/m3	303.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	
rhol	1180.55	kg/m3	303.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	
rhol	1123.99	kg/m3	333.15	Excess volumes and partial molar volumes of binary mixtures of 1,2-propanediol carbonate with xylene in the temperature range of (293.15 to 353.15) K	
sfust	42.80	J/mol×K	224.85	NIST Webbook	
speedsl	1443.40	m/s	298.15	Volumetric and compressibility properties of liquid water as a solute in glycolic, propylene carbonate, and tetramethylurea solutions at T = 298.15 K	

Correlations

Information

momaton	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.76786e+01
Coeff. B	-7.84783e+03
Coeff. C	8.60430e+01
Temperature range (K), min.	365.21
Temperature range (K), max.	548.53

Value

Datasets

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
303.15	101.30	0.0021494
Reference		https://www.doi.org/10.1021/je034204h

Sources

Determination and Correlation of Solubilities of Lithium Bits Solubilities and Lithium Bi

Phase Equilibrium and Physical Properties for the Purification of Modelings Chiquidal applyings of Benguena Ternary Michael M

The Yaws Handbook of Vapor

Pressure: Volumes, Heat Capacities, and Compressibilities of the Mixtures of Aelst Difference in Profice in the Compression of the Mixtures of Aelst Difference in the Compression of the Mixtures of Aelst Difference in the Compression of the Mixtures of Aelst Difference in the Compression of the Mixtures of th โมเทาอุทลย์ กังกระยน่อง อำเภาไขทั้งอุทอก่อ โรคลงสมัย อุทลเทาอุเลอก์ เล่นต์แน่ง Equilibria for Binary Systems of Diethyl Carbonate + Pruppenletansbnate, Diethyl Carbonate + Propylene Glycol, and https://en.wikipedia.org/wiki/Joback_method

Comparative Study of the Solubilities of SO2 in Five Low Volatile Organic Selvents is an elementary in the Solutile Organic Selvents is a reliable to the Solution of the Solution o for Binary Mixtures of Ionic Liquid
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Canbernatores:

Density, conductivity, viscosity, and excess properties of (pyrrolidinium havaer-select proetile) in stipiymeian datterise pased solvente: and discissive acid reliable acid pased solventes and discissive acid reliable acid pased solventes: and discissive acid reliable acid pased solventes acid reliable acid pased solventes aci बन्द्रभारकाभू Acetate, 3-Methoxybutyl Abetate, 2-Methoxyethyl Acetate, 1-Methoxy-2-propyl Acetate and Solubilities of Six yithing salisin five non-aqueous solvents and in a few of **∖/appobinaresamxe ang**ienthalpy of vaporization of cyclic alkylene

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Legend

chl: Standard liquid enthalpy of combustion

cpg: Ideal gas heat capacitycpl: Liquid phase heat capacity

dvisc: Dynamic viscosity

gf: Standard Gibbs free energy of formationhf: 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/llogp: Octanol/Water partition coefficientmcvol: McGowan's characteristic volume

pc: Critical Pressurepvap: Vapor pressurerfi: Refractive Indexrhol: Liquid Density

rinpol: Non-polar retention indices

sfust: Entropy of fusion at a given temperature

sl: Liquid phase molar entropy at standard conditions

speedsl: Speed of sound in fluid

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) pointtt: Triple Point Temperature

vc: Critical Volume

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