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	NIST Webbook
chl	-1818.00 ± 1.00	kJ/mol	NIST Webbook
cpl	166.98	J/mol×K	Volumes, Heat Capacities, and Compressibilities of the Mixtures of Acetonitrile with
			N,N-Dimethylacetamide and Propylene Carbonate
gf	-275.48	kJ/mol	Joback Method
hf	-563.70	kJ/mol	NIST Webbook
hf	-582.50 ± 2.50	kJ/mol	NIST Webbook
hfl	-631.80 ± 2.10	kJ/mol	NIST Webbook
hfl	-613.00 ± 1.00	kJ/mol	NIST Webbook
hfus	15.52	kJ/mol	Joback Method
hvap	49.30	kJ/mol	NIST Webbook
hvap	30.70 ± 2.10	kJ/mol	NIST Webbook
hvap	71.20 ± 0.60	kJ/mol	NIST Webbook
hvap	61.30 ± 0.10	kJ/mol	NIST Webbook
hvap	71.30	kJ/mol	NIST Webbook
hvap	61.50 ± 0.30	kJ/mol	NIST Webbook
log10ws	-0.43		Crippen Method
logp	0.542		Crippen Method
mcvol	69.670	ml/mol	McGowan Method
рс	5065.79	kPa	Joback Method
rinpol	929.00		NIST Webbook
rinpol	932.00		NIST Webbook
sl	218.60	J/mol×K	NIST Webbook
sl	219.17	J/mol×K	NIST Webbook
tb	515.05 ± 0.70	K	NIST Webbook
tb	513.20	K	NIST Webbook
tc	650.09	K	Joback Method
tf	218.62 ± 0.06	K	NIST Webbook
tf	222.95 ± 0.30	K	NIST Webbook
tf	222.95 ± 1.00	K	NIST Webbook
tt	218.66 ± 0.02	K	NIST Webbook
tt	224.85 ± 0.02	K	NIST Webbook
tt	224.85 ± 0.02	K	NIST Webbook
VC	0.249	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.91	J/mol×K	613.07	Joback Method

cpg	195.81	J/mol×K	650.09	Joback Method
cpg	179.59	J/mol×K	576.04	Joback Method
cpg	170.87	J/mol×K	539.01	Joback Method
cpg	161.78	J/mol×K	501.98	Joback Method
cpg	152.33	J/mol×K	464.95	Joback Method
cpg	142.54	J/mol×K	427.92	Joback Method
cpl	184.10	J/mol×K	323.15	NIST Webbook
cpl	167.40	J/mol×K	298.15	NIST Webbook
cpl	175.00	J/mol×K	298.00	NIST Webbook
срІ	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	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	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

срІ	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	
срІ	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	
срІ	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	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	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	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	176.61	J/mol×K	333.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates
cpl	178.66	J/mol×K	343.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates
cpl	180.70	J/mol×K	353.15	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	190.91	J/mol×K	393.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
срІ	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	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	
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	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	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	
срІ	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	

срІ	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	
срІ	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	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	183.76	J/mol×K	363.15	Vapor Pressure and Liquid Heat Capacity of Alkylene Carbonates	
cpl	203.60	J/mol×K	418.15	Excess Molar Enthalpies, Molar Heat Capacities, Densities, and Refractive Indices of Dimethyl Sulfoxide + Esters of Carbonic Acid at 308.15 K and Atmospheric Pressure	
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	0.0022710	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	0.0027620	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	Densities and Viscosities of Binary Mixtures of Paraldehyde + Propylene Carbonate at (288.15, 293.15, 298.15, 303.15, and 308.15) K
dvisc	0.0016200	Paxs	323.15	Volumetric and viscosimetric properties of N-methyl-2-pyrrolidone with .gammabutyrolactone and propylene carbonate
dvisc	0.0017500	Paxs	318.15	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	0.0020800	Pa×s	308.15	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	0.0025200	Paxs	298.15	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	0.0030860	Paxs	288.15	Viscosity Behavior of Some Oxygen Containing Compounds	
dvisc	0.0020730	Paxs	308.15	Viscosity Behavior of Some Oxygen Containing Compounds	
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	
hfust	9.62	kJ/mol	224.85	NIST Webbook	
hfust	9.62	kJ/mol	218.20	NIST Webbook	
hfust	9.62	kJ/mol	218.20	NIST Webbook	
hfust	8.96	kJ/mol	220.30	NIST Webbook	
hfust	9.62	kJ/mol	224.85	NIST Webbook	
hfust	8.01	kJ/mol	156.50	NIST Webbook	
hvapt	57.80	kJ/mol	415.00	NIST Webbook	
hvapt	54.40	kJ/mol	439.00	NIST Webbook	
hvapt	55.20	kJ/mol	415.00	NIST Webbook	
hvapt	55.20	kJ/mol	323.00	NIST Webbook	
hvapt	55.23	kJ/mol	423.00	NIST Webbook	
hvapt	53.00	kJ/mol	415.00	NIST Webbook	
hvapt	33.80	kJ/mol	346.50	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	12.69	kPa	438.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamic	de
pvap	10.78	kPa	433.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamic	de
pvap	8.96	kPa	428.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamic	de

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	14.81	kPa	443.15	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	17.81	kPa	448.15	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-Dimethylacetamic	de
pvap	1.86	kPa	388.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamic	de
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	0.10	kPa	332.70	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
pvap	20.50	kPa	453.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamic	de

pvap	24.08	kPa	458.15	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	27.96	kPa	463.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
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	33.01	kPa	468.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
pvap	0.22	kPa	344.90	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates
pvap	37.77	kPa	473.15	Vapor Pressures of Propylene Carbonate and N,N-Dimethylacetamide
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	0.08	kPa	329.60	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	
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)	
pvap	0.18	kPa	341.80	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	
pvap	0.15	kPa	338.80	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	0.01	kPa	303.30	Vapour pressure and enthalpy of vaporization of cyclic alkylene carbonates	

pvap	40.00	kPa	477.53	Phase Equilibrium and Physical Properties for the Purification of Propylene Carbonate (PC) and y-Butyrolactone (GBL)	
pvap	0.02	kPa	311.30	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	0.04	kPa	318.20	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	0.05	kPa	322.70	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	0.07	kPa	326.60	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	0.13	kPa	335.70	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	

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 2,4,6	Viscosities, Ultrasonic Velocities at (288.15 and 298.15) K, and Refractive Indices at (298.15) K of Binary Mixtures of 6-Trimethyl-1,3,5-trioxane with Dimethyl Carbonate, Diethyl Carbonate, and Propylene Carbonate	
rfi	1.41900		298.15	Liquid-liquid equilibrium study for the system (water + phosphoric acid + propylene carbonate) at different temperatures	
rhol	1151.92	kg/m3	343.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids	
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	1171.96	kg/m3		Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazolium ifluoromethylsulfonyl)imide + propylene carbonate binary mixtures	
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 Ionic Liquids	
rhol	1141.33	kg/m3	353.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
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 1162.50 kg/m3 333.15 Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids 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 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 1183.67 kg/m3 313.15 Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile lonic Liquids	
Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids	
rhol 1104.27 kg/m2 202.15 Colf Diffusion	
rhol 1194.27 kg/m3 303.15 Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids	
rhol 1199.58 kg/m3 298.15 Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids	
rhol 1204.89 kg/m3 293.15 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	1220.90	kg/m3	278.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic Liquids	
rhol	1226.25	kg/m3	273.15	Self-Diffusion Coefficients and Related Transport Properties for a Number of Fragile Ionic 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 N,	lonic molar volumes in methanol mixtures with acetonitrile, ,N-dimethylformamid and propylene carbonate at T = 298.15 K	e
rhol	1177.55	kg/m3		Density, electrical conductivity, viscosity and excess properties of atyl-3-methylimidazol fluoromethylsulfonyl) + propylene carbonate binary mixtures	
rhol	1183.11	kg/m3		Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazol fluoromethylsulfonyl) + propylene carbonate binary mixtures	

rhol	1188.57	kg/m3		Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazolium ifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
rhol	1194.00	kg/m3		Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazolium ifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
rhol	1199.02	kg/m3		Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazolium ifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
rhol	1204.81	kg/m3		Density, electrical conductivity, viscosity and excess properties of utyl-3-methylimidazolium ifluoromethylsulfonyl)imide + propylene carbonate binary mixtures
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	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	
rhol	1142.43	kg/m3	323.15	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	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	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	
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	Value
Property code	pyap

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

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

± ₱5gpjd ≰cetate, Ethyl Acetate + Propylene Carbonate, and Propyl Acetate + Propylene Carbonate at 101.3

https://www.doi.org/10.1021/acs.jced.7b00646 Measurement and Correlation of the Electrical Conductivity of the lonic California Programs With Sharman Programs Solubilities of sulfuryl fluoride in https://www.doi.org/10.1021/je1002708 https://www.doi.org/10.1016/j.jct.2018.05.007 Solubilities of sulfuryl fluoride in propylene carbonate, tributyl จักประที่เขียะสโธทั-illeแหนาธุลโซเลเซิด์เหย non-aqueous solvents and in a few of เหตุแต่สู่เปลุ่มปกตุลแก่โซะium study for the system (water + phosphoric acid + อาญารถานี ซะเกซอกate) at different https://www.doi.org/10.1016/j.fluid.2017.12.034 https://www.doi.org/10.1016/j.jct.2016.09.008 https://www.chemeo.com/doc/models/crippen_log10ws temperatures: Vapour pressure and enthalpy of https://www.doi.org/10.1016/j.fluid.2008.03.013 vaporization of cyclic alkylene Wardelwage Liquid Liquid Interfacial Properties of Binary and Ternary Modulaity of Methane in Propylene https://www.doi.org/10.1021/je500113q https://www.doi.org/10.1021/je500849m Carbonate: Phase Equilibria in Binary Mixtures of https://www.doi.org/10.1021/je700689w Water with Cyclic Alkylene Carbonates lonic molar volumes in methanol https://www.doi.org/10.1016/j.jct.2014.02.021 mixtures with acetonitrile, Nสเซาเกียรรูเนา คลิกโสตินเศิสโตชี pylene Sapanity อธิเค้าkylege (Darbonates: Volumetric and compressibility https://www.doi.org/10.1021/je034173q https://www.doi.org/10.1016/j.jct.2007.05.010 volumetric and compressibility properties of liquid water as a solute in sycidial kylopeleaebonatosa tox partiment and historial land histori properties of liquid water as a solute in https://www.doi.org/10.1021/acs.jced.5b00669 for Binary Mixtures of Ionic Liquid https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure https://www.doi.org/10.1016/j.jct.2015.08.013 properties of N-methyl-2-pyrrolidone withing any identity briefond and https://www.doi.org/10.1021/je500442m With I gammed but the latter of the latter o https://www.doi.org/10.1021/acs.jced.6b00021 https://www.doi.org/10.1021/je900307z https://en.wikipedia.org/wiki/Joback_method glycol) + Esters of Carbonic Acid at (193 volumets is properties of (193 volumets) carbonate + benzene, is properties of the control of th https://www.doi.org/10.1016/j.jct.2005.03.019 https://www.doi.org/10.1021/acs.jced.7b01107

Liquid Liquid Equilibria for the Ternary https://www.doi.org/10.1021/je401056v Systems of 4-Methyl-1,3-dioxolan-2-one McGCMateMethedzene + Octane,

The properties for the Purification of Pisconeins f

Esters of Carbonic Acid + Three Aryl NISON September 2018.15 K:

Determination and Correlation of

Solubilities of Lithium BRISKALAROGOIGALGAISHACTINGYent

BRIGHALARENGUARE HATTAKE INTEREST TO SERVE AND ACCOUNT OF THE PROPERTY OF THE Ethanol + Propylene Carbonate at 101.3

Legend

http://link.springer.com/article/10.1007/BF02311772

https://www.doi.org/10.1007/s10765-010-0860-3

Excess Properties of Binary Mixtures of https://www.doi.org/10.1021/je0497395

http://webbook.nist.gov/cgi/cbook.cgi?ID=C108327&Units=SI

https://www.doi.org/10.1021/je500068b

https://www.doi.org/10.1016/j.jct.2013.08.034 https://www.doi.org/10.1021/acs.jced.8b00224

https://www.doi.org/10.1021/acs.jced.5b00064

chl: Standard liquid enthalpy of combustion

cpg: Ideal gas heat capacity cpl: Liquid phase heat capacity

dvisc: Dynamic viscosity

Standard Gibbs free energy of formation gf: 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

Enthalpy of vaporization at standard conditions hvap: hvapt: Enthalpy of vaporization at a given temperature

log10ws: Log10 of Water solubility in mol/l Octanol/Water partition coefficient logp: McGowan's characteristic volume mcvol:

pc: Critical Pressure pvap: Vapor pressure rfi: Refractive Index rhol: 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) point tt: Triple Point Temperature

vc: Critical Volume

Latest version available from:

https://www.chemeo.com/cid/15-970-8/Propylene-Carbonate.pdf

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