Ethane, 1,1'-oxybis[2-methoxy-

Other names:	(2-Methoxyethyl) ether
	.beta.,.beta.-dimethoxy diethyl ether
	1,1'-Oxybis(2-methoxy)ethane
	1,1'-oxybis(2-methoxyethane)
	1,5-dimethoxydiethyl ether
	2,2'-Oxybisethanol dimethyl ether
	2,5,8-Trioxanonane
	2-(2-Methoxyethoxy)-1-methoxyethane
	2-methoxyethyl ether
	3-oxa-1,5-pentanediol, dimethyl ether
	Bis(2-methoxyethyl) ether
	CH3OCH2CH2OCH2CH2OCH3
	Di(2-Methoxyethyl) ether
	Diethyl glycol dimethyl ether
	Diethylene glycol dimethyl ether
	Diglycol methyl ether
	Diglyme
	Dimethoxydiethylene glycol
	Dimethyl carbitol
	Dimethyldigol
	Ethanol, 2,2'-oxybis-, dimethyl ether
	Ether, bis(2-methoxyethyl)
	Glyme-2
	Methyl diglyme
	NSC 59726
	Poly-Solv
	diethylene glycol, dimethyl ether
	diglyme (diethylene glycol dimethyl ether)
	dimethyldiglycol
Inchi:	InChI=1S/C6H14O3/c1-7-3-5-9-6-4-8-2/h3-6H2,1-2H3
InchiKey:	SBZXBUIDTXKZTM-UHFFFAOYSA-N
Formula:	C6H14O3
SMILES:	COCCOCCOC
Mol. weight [g/mol]:	134.17
CAS:	111-96-6

Physical Properties

Property code	Value	Unit	Source
affp	918.80	kJ/mol	NIST Webbook
basg	870.90	kJ/mol	NIST Webbook
chl	-3805.50 ± 0.90	kJ/mol	NIST Webbook
gf	-315.36	kJ/mol	Joback Method
hf	-511.70	kJ/mol	NIST Webbook
hf	-524.70	kJ/mol	NIST Webbook
hfl	-569.40	kJ/mol	NIST Webbook
hfl	-556.40 ± 0.90	kJ/mol	NIST Webbook
hfus	14.86	kJ/mol	Joback Method
hvap	48.00 ± 0.60	kJ/mol	NIST Webbook
hvap	44.70	kJ/mol	NIST Webbook
ie	9.80	eV	NIST Webbook
log10ws	0.88		Aqueous Solubility Prediction Method
logp	0.296		Crippen Method
mcvol	113.010	ml/mol	McGowan Method
pc	2937.70	kPa	Joback Method
rinpol	951.00		NIST Webbook
rinpol	950.90		NIST Webbook
rinpol	950.90		NIST Webbook
sl	352.70	J/mol×K	NIST Webbook
tb	435.00 ± 4.00	K	NIST Webbook
tb	435.15	K	NIST Webbook
tb	435.20	K	NIST Webbook
tc	569.71	K	Joback Method
tf	209.10 ± 0.20	K	NIST Webbook
tf	209.15	K	NIST Webbook
tf	207.82	K	Aqueous Solubility Prediction Method
vc	0.425	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.56	J/mol×K	542.08	Joback Method
cpg	256.17	J/mol×K	486.83	Joback Method
cpg	246.70	J/mol×K	459.20	Joback Method
cpg	227.24	J/mol×K	403.94	Joback Method
cpg	237.05	J/mol×K	431.57	Joback Method
cpg	283.44	J/mol×K	569.71	Joback Method

cpg	265.47	J/mol×K	514.45	Joback Method
cpl	274.10	J/mol×K	298.15	NIST Webbook
cpl	279.84	J/mol×K	298.15	NIST Webbook
cpl	277.76	J/mol×K	298.15	NIST Webbook
dvisc	0.0005220	Pa×s	343.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0004120	Pa×s	363.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0009760	Pa×s	298.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0010600	Pa×s	293.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0011400	Pa×s	288.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0012600	Pa×s	283.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0007770	Pa×s	313.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0004640	Pa×s	353.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0013800	Pa×s	278.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0015200	Pa×s	273.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0005920	Pa×s	333.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0009010	Pa×s	303.15	Density, viscosity and solubility of carbon dioxide in glymes
dvisc	0.0006760	Pa×s	323.15	Density, viscosity and solubility of carbon dioxide in glymes
hfust	17.80	kJ/mol	209.10	NIST Webbook

hfust	17.78	kJ/mol	209.10	NIST Webbook
hfust	17.80	kJ/mol	209.10	NIST Webbook
hvapt	45.40	kJ/mol	402.50	NIST Webbook
hvapt	47.40	kJ/mol	359.50	NIST Webbook
rfi	1.40120		308.15	Liquid Densities and Refractive Indices of Binary Mixtures for the Dimethyl Ether of a Glycol + Ethanol from T=288.15 K to 318.15 K
rfi	1.40570		298.15	Solubility of a-Carotene in Binary Solvents Formed by Some Hydrocarbons with 2,5,8-Trioxanonane, 2-Propanone, and Cyclohexanone
rfi	1.40580		298.15	Liquid Densities and Refractive Indices of Binary Mixtures for the Dimethyl Ether of a Glycol + Ethanol from T=288.15 K to 318.15 K
rfi	1.41010		288.15	Liquid Densities and Refractive Indices of Binary Mixtures for the Dimethyl Ether of a Glycol + Ethanol from T=288.15 K to 318.15 K
rfi	1.40580		298.15	Non-ideal behaviour of a room temperature ionic liquid in an alkoxyethanol or poly ethers at T = (298.15 to 318.15) K
rfi	1.39680		318.15	Liquid Densities and Refractive Indices of Binary Mixtures for the Dimethyl Ether of a Glycol + Ethanol from T=288.15 K to 318.15 K

rfi	1.40600		298.15	Density, Speed of Sound, and Refractive Index of Aqueous Binary Mixtures of Some Glycol Ethers at T = 298.15 K
rhol	933.82	kg/m3	303.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	948.70	kg/m3	288.15	Thermophysical properties of glycols and glymes
rhol	943.80	kg/m3	293.15	Thermophysical properties of glycols and glymes
rhol	938.80	kg/m3	298.15	Thermophysical properties of glycols and glymes
rhol	933.80	kg/m3	303.15	Thermophysical properties of glycols and glymes
rhol	928.80	kg/m3	308.15	Thermophysical properties of glycols and glymes
rhol	923.80	kg/m3	313.15	Thermophysical properties of glycols and glymes
rhol	913.70	kg/m3	323.15	Thermophysical properties of glycols and glymes
rhol	903.60	kg/m3	333.15	Thermophysical properties of glycols and glymes
rhol	893.40	kg/m3	343.15	Thermophysical properties of glycols and glymes

rhol	953.66	kg/m3	283.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	952.67	kg/m3	284.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	951.69	kg/m3	285.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	950.70	kg/m3	286.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	949.71	kg/m3	287.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	948.72	kg/m3	288.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure

rhol	947.73	kg/m3	289.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	946.74	kg/m3	290.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	945.75	kg/m3	291.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	944.76	kg/m3	292.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	943.76	kg/m3	293.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	942.79	kg/m3	294.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure

rhol	941.79	kg/m3	295.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	940.79	kg/m3	296.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	939.80	kg/m3	297.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	938.80	kg/m3	298.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	937.80	kg/m3	299.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	936.81	kg/m3	300.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure

rhol	935.81	kg/m3	301.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	934.82	kg/m3	302.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	953.70	kg/m3	283.15	Thermophysical properties of glycols and glymes
rhol	932.82	kg/m3	304.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	931.82	kg/m3	305.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	930.82	kg/m3	306.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	929.83	kg/m3	307.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure

rhol	863.80	kg/m3	373.15	Thermophysical properties of glycols and glymes	
rhol	927.82	kg/m3	309.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure	
rhol	926.83	kg/m3	310.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure	
rhol	925.82	kg/m3	311.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure	
rhol	924.82	kg/m3	312.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure	
rhol	923.82	kg/m3	313.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure	

rhol	922.81	kg/m3	314.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	921.81	kg/m3	315.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	920.80	kg/m3	316.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	919.80	kg/m3	317.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	918.79	kg/m3	318.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	917.78	kg/m3	319.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure

rhol	916.78	kg/m3	320.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	915.77	kg/m3	321.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	914.75	kg/m3	322.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	913.75	kg/m3	323.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	912.73	kg/m3	324.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	911.72	kg/m3	325.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure

rhol	910.70	kg/m3	326.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	909.69	kg/m3	327.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	908.67	kg/m3	328.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	907.65	kg/m3	329.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	906.63	kg/m3	330.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	905.62	kg/m3	331.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure

rhol	904.60	kg/m3	332.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	903.59	kg/m3	333.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	945.20	kg/m3	293.15	Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at T = (293.15, 298.15, 303.15, 308.15 and 313.15) K
rhol	939.80	kg/m3	298.15	Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at T = (293.15, 298.15, 303.15, 308.15 and 313.15) K
rhol	935.00	kg/m3	303.15	Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at T = (293.15, 298.15, 303.15, 308.15 and 313.15) K

rhol	930.70	kg/m3	308.15	Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at T = (293.15, 298.15, 303.15, 308.15 and 313.15) K	
rhol	925.40	kg/m3	313.15	Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at T = (293.15, 298.15, 303.15, 308.15 and 313.15) K	
rhol	869.00	kg/m3	368.15	Thermophysical properties of glycols and glymes	
rhol	874.20	kg/m3	363.15	Thermophysical properties of glycols and glymes	
rhol	879.40	kg/m3	358.15	Thermophysical properties of glycols and glymes	
rhol	884.60	kg/m3	353.15	Thermophysical properties of glycols and glymes	
rhol	889.70	kg/m3	348.15	Thermophysical properties of glycols and glymes	
rhol	894.80	kg/m3	343.15	Thermophysical properties of glycols and glymes	
rhol	899.90	kg/m3	338.15	Thermophysical properties of glycols and glymes	
rhol	905.00	kg/m3	333.15	Thermophysical properties of glycols and glymes	
rhol	910.10	kg/m3	328.15	Thermophysical properties of glycols and glymes	

rhol	915.20	kg/m3	323.15	Thermophysical properties of glycols and glymes
rhol	920.20	kg/m3	318.15	Thermophysical properties of glycols and glymes
rhol	925.20	kg/m3	313.15	Thermophysical properties of glycols and glymes
rhol	930.20	kg/m3	308.15	Thermophysical properties of glycols and glymes
rhol	935.20	kg/m3	303.15	Thermophysical properties of glycols and glymes
rhol	940.20	kg/m3	298.15	Thermophysical properties of glycols and glymes
rhol	945.20	kg/m3	293.15	Thermophysical properties of glycols and glymes
rhol	872.81	kg/m3	363.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	878.04	kg/m3	358.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	883.24	kg/m3	353.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	888.41	kg/m3	348.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	893.55	kg/m3	343.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	898.67	kg/m3	338.15	Surface tension of four oxygenated fuels: experiment and correlation

rhol	903.76	kg/m3	333.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	908.84	kg/m3	328.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	913.90	kg/m3	323.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	918.94	kg/m3	318.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	923.97	kg/m3	313.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	928.95	kg/m3	308.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	933.98	kg/m3	303.15	Surface tension of four oxygenated fuels: experiment and correlation
rhol	938.62	kg/m3	298.15	Excess molar enthalpies and volumes of binary mixtures of nonafluorobutylmethylether with ethylene glycol ethers at T = 298.15 K
rhol	928.83	kg/m3	308.15	Volumetric Properties of Binary Mixtures of 1,2-Dichloroethane with Polyethers from (283.15 to 333.15) K and at Atmospheric Pressure
rhol	950.20	kg/m3	288.15	Thermophysical properties of glycols and glymes
sfust	85.10	J/mol×K	209.10	NIST Webbook

srf	0.02	N/m	298.15	Volumetric and Surface Properties of Aqueous Mixtures of Polyethers at T = (298.15, 308.15, and 318.15) K	
srf	0.03	N/m	308.15	Volumetric and Surface Properties of Aqueous Mixtures of Polyethers at T = (298.15, 308.15, and 318.15) K	
srf	0.02	N/m	318.15	Volumetric and Surface Properties of Aqueous Mixtures of Polyethers at T = (298.15, 308.15, and 318.15) K	
tcondl	0.13	W/m×K	332.54	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K	
tcondl	0.15	W/m×K	302.75	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K	
tcondl	0.12	W/m×K	362.39	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K	
tcondl	0.11	W/m×K	392.16	Thermal Conductivity Measurement of Polyglycol Alkyl Ethers at Temperatures from (303.15 to 393.15) K	

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.56921e+01
Coeff. B	-4.43052e+03
Coeff. C	-3.51090e+01
Temperature range (K), min.	322.72
Temperature range (K), max.	461.92

Datasets

Speed of sound, m/s

Temperature, K - Liquid	Pressure, kPa - Liquid	Speed of sound, m/s - Liquid
293.15	100.00	1298.9
293.15	10000.00	1344.9
293.15	20000.00	1386.5
293.15	30000.00	1426.6
293.15	40000.00	1463.9
293.15	50000.00	1499.2
293.15	60000.00	1532.5
293.15	70000.00	1565.1
293.15	80000.00	1595.5
293.15	90000.00	1624.9
293.15	100000.00	1653.4
303.15	100.00	1259.3
303.15	10000.00	1306.7
303.15	20000.00	1350.6
303.15	30000.00	1392.0
303.15	40000.00	1430.4
303.15	50000.00	1466.9
303.15	60000.00	1501.5
303.15	70000.00	1534.3
303.15	80000.00	1565.8

303.15	90000.00	1595.9
303.15	100000.00	1625.1
313.15	100.00	1219.9
313.15	10000.00	1269.5
313.15	20000.00	1315.4
313.15	30000.00	1357.6
313.15	40000.00	1397.8
313.15	50000.00	1435.3
313.15	60000.00	1470.5
313.15	70000.00	1504.4
313.15	80000.00	1536.7
313.15	90000.00	1567.6
313.15	100000.00	1597.0
323.15	100.00	1180.9
323.15	10000.00	1232.5
323.15	20000.00	1280.2
323.15	30000.00	1324.4
323.15	40000.00	1365.5
323.15	50000.00	1404.0
323.15	60000.00	1440.6
323.15	70000.00	1475.2
323.15	80000.00	1508.2
323.15	90000.00	1539.8
323.15	100000.00	1569.9
333.15	100.00	1142.4
333.15	10000.00	1196.4
333.15	20000.00	1246.0
333.15	30000.00	1291.4
333.15	40000.00	1333.7
333.15	50000.00	1373.6
333.15	60000.00	1410.9
333.15	70000.00	1446.2
333.15	80000.00	1480.1
333.15	90000.00	1512.3
333.15	100000.00	1543.1
343.15	100.00	1104.2
343.15	10000.00	1160.8
343.15	20000.00	1212.0
343.15	30000.00	1259.5
343.15	40000.00	1303.1
343.15	50000.00	1343.9
343.15	60000.00	1382.1
343.15	70000.00	1418.6
343.15	80000.00	1452.9

343.15	90000.00	1485.9
343.15	100000.00	1517.4
353.15	100.00	1066.6
353.15	10000.00	1125.7
353.15	20000.00	1179.3
353.15	30000.00	1228.1
353.15	40000.00	1273.4
353.15	50000.00	1314.9
353.15	60000.00	1354.4
353.15	70000.00	1391.3
353.15	80000.00	1426.7
353.15	90000.00	1460.4
353.15	100000.00	1492.3

Reference *https://www.doi.org/10.1007/s10765-006-0110-x*

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
283.69	100.00	953.48
283.69	1000.00	954.15
283.69	5000.00	956.94
283.68	10000.00	960.29
283.68	20000.00	966.68
283.68	30000.00	972.8
283.67	40000.00	978.49
283.67	60000.00	989.12
283.67	80000.00	998.75
283.67	100000.00	1007.71
303.47	100.00	933.69
303.47	1000.00	934.43
303.48	5000.00	937.55
303.48	10000.00	941.31
322.62	30000.00	938.31
322.62	40000.00	945.16
322.62	60000.00	957.74
322.62	80000.00	968.98
322.62	100000.00	979.2
342.49	100.00	894.03
342.49	1000.00	894.98
342.49	5000.00	898.96

342.50	10000.00	903.66
342.50	20000.00	912.57
342.51	30000.00	920.68
342.51	40000.00	928.18
342.51	60000.00	941.77
342.51	80000.00	953.82
303.49	20000.00	948.42
303.49	30000.00	955.17
303.49	40000.00	961.41
303.49	60000.00	973.02
303.50	80000.00	983.33
303.50	100000.00	992.97
322.62	100.00	914.41
322.62	1000.00	915.3
322.62	5000.00	918.77
322.62	10000.00	923.02
322.62	20000.00	930.99
342.52	100000.00	964.68
362.51	100.00	873.45
362.51	1000.00	874.46
362.51	5000.00	879.02
362.52	10000.00	884.41
362.52	20000.00	894.33
362.52	30000.00	903.29
362.52	40000.00	911.53
362.53	60000.00	926.3
362.53	80000.00	939.26
362.53	100000.00	950.89

Reference *https://www.doi.org/10.1021/acs.jced.7b00176*

Temperature, K	Pressure, kPa	Mass density, kg/m3
293.15	100.00	943.5
293.15	5000.00	947.3
293.15	10000.00	950.9
293.15	15000.00	954.4
293.15	20000.00	957.7
293.15	25000.00	960.9
293.15	30000.00	964.0
293.15	35000.00	967.0
293.15	40000.00	969.8
293.15	45000.00	972.8
293.15	50000.00	975.4

293.15	55000.00	978.2
293.15	60000.00	980.9
303.15	100.00	933.7
303.15	5000.00	937.6
303.15	10000.00	941.1
303.15	15000.00	945.0
303.15	20000.00	948.4
303.15	25000.00	951.8
303.15	30000.00	955.2
303.15	35000.00	958.2
303.15	40000.00	961.1
303.15	45000.00	964.0
303.15	50000.00	967.3
303.15	55000.00	970.1
303.15	60000.00	973.2
313.15	100.00	923.7
313.15	5000.00	927.9
313.15	10000.00	931.8
313.15	15000.00	935.7
313.15	20000.00	939.4
313.15	25000.00	942.6
313.15	30000.00	946.5
313.15	35000.00	949.7
313.15	40000.00	952.8
313.15	45000.00	956.1
313.15	50000.00	958.8
313.15	55000.00	961.9
313.15	60000.00	964.9
323.15	100.00	913.7
323.15	5000.00	918.2
323.15	10000.00	922.7
323.15	15000.00	926.4
323.15	20000.00	930.5
323.15	25000.00	934.2
323.15	30000.00	937.6
323.15	35000.00	941.0
323.15	40000.00	944.4
323.15	45000.00	947.6
323.15	50000.00	951.0
323.15	55000.00	953.9
323.15	60000.00	956.7
333.15	100.00	903.6
333.15	5000.00	908.3
333.15	10000.00	912.8

333.15	15000.00	917.3
333.15	20000.00	921.0
333.15	25000.00	925.3
333.15	30000.00	928.9
333.15	35000.00	932.6
333.15	40000.00	936.4
333.15	45000.00	939.8
333.15	50000.00	942.9
333.15	55000.00	946.0
333.15	60000.00	949.1
343.15	100.00	893.6
343.15	5000.00	898.5
343.15	10000.00	903.2
343.15	15000.00	907.8
343.15	20000.00	912.3
343.15	25000.00	916.2
343.15	30000.00	920.5
343.15	35000.00	924.2
343.15	40000.00	928.0
343.15	45000.00	931.4
343.15	50000.00	934.8
343.15	55000.00	938.2
343.15	60000.00	941.4
353.15	100.00	883.3
353.15	5000.00	888.7
353.15	10000.00	893.9
353.15	15000.00	898.7
353.15	20000.00	903.2
353.15	25000.00	907.6
353.15	30000.00	911.6
353.15	35000.00	915.5
353.15	40000.00	919.5
353.15	45000.00	923.1
353.15	50000.00	927.0
353.15	55000.00	930.4
353.15	60000.00	933.6

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Legend

affp:	Proton affinity
basg:	Gas basicity
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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
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
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
vc:	Critical Volume