

Ethyl 1,1-dichloroethyl ether

Inchi:	InChI=1S/C4H8Cl2O/c1-3-7-4(2,5)6/h3H2,1-2H3
InchiKey:	YPARLWWBCISWTI-UHFFFAOYSA-N
Formula:	C4H8Cl2O
SMILES:	CCOC(C)(Cl)Cl
Mol. weight [g/mol]:	143.01

Physical Properties

Property code	Value	Unit	Source
gf	-143.22	kJ/mol	Joback Method
hf	-298.34	kJ/mol	Joback Method
hfus	8.28	kJ/mol	Joback Method
hvap	34.38	kJ/mol	Joback Method
log10ws	-1.99		Crippen Method
logp	2.174		Crippen Method
mcvol	97.570	ml/mol	McGowan Method
pc	3568.53	kPa	Joback Method
rinpol	737.00		NIST Webbook
tb	384.97	K	Joback Method
tc	579.77	K	Joback Method
tf	219.33	K	Joback Method
vc	0.364	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.46	J/molxK	384.97	Joback Method
cpg	201.08	J/molxK	547.30	Joback Method
cpg	194.37	J/molxK	514.84	Joback Method
cpg	187.26	J/molxK	482.37	Joback Method
cpg	179.75	J/molxK	449.90	Joback Method
cpg	171.83	J/molxK	417.44	Joback Method
cpg	207.42	J/molxK	579.77	Joback Method
dvisc	0.0003470	Paxs	384.97	Joback Method
dvisc	0.0004588	Paxs	357.36	Joback Method

dvisc	0.0006357	Paxs	329.76	Joback Method
dvisc	0.0009350	Paxs	302.15	Joback Method
dvisc	0.0014862	Paxs	274.54	Joback Method
dvisc	0.0026200	Paxs	246.94	Joback Method
dvisc	0.0053275	Paxs	219.33	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R629157&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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