Ether, chloromethyl dichloromethyl

Inchi: InChI=1S/C2H3Cl3O/c3-1-6-2(4)5/h2H,1H2
InchiKey: MCXRKNYHEMVMIT-UHFFFAOYSA-N
Formula: C2H3Cl3O
SMILES: ClCOC(Cl)Cl
Mol. weight [g/mol]: 149.40
CAS: 2799-32-8

Physical Properties

Property code	Value	Unit	Source
gf	-177.27	kJ/mol	Joback Method
hf	-269.33	kJ/mol	Joback Method
hfus	11.19	kJ/mol	Joback Method
hvap	35.22	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.960		Crippen Method
mcvol	81.630	ml/mol	McGowan Method
pc	4271.86	kPa	Joback Method
tb	379.43	K	Joback Method
tc	576.92	K	Joback Method
tf	209.29	K	Joback Method
vc	0.306	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	116.71	J/mol×K	379.43	Joback Method
cpg	120.63	J/mol×K	412.34	Joback Method
cpg	124.42	J/mol×K	445.26	Joback Method
cpg	128.09	J/mol×K	478.17	Joback Method
cpg	131.62	J/mol×K	511.09	Joback Method
cpg	135.02	J/mol×K	544.00	Joback Method
cpg	138.28	J/mol×K	576.92	Joback Method
dvisc	0.0043724	Pa×s	209.29	Joback Method
dvisc	0.0022406	Pa×s	237.65	Joback Method

dvisc	0.0013241	Pa×s	266.00	Joback Method
dvisc	0.0008659	Pa×s	294.36	Joback Method
dvisc	0.0006102	Pa×s	322.72	Joback Method
dvisc	0.0004550	Pa×s	351.07	Joback Method
dvisc	0.0003545	Pa×s	379.43	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2799328&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume