Tetrahydrofuran, 2-[2-chloro-1-(chloromethyl)ethyloxy]

Other names: 2-(2-Chloro-1-chloromethyl-ethoxy)- tetrahydro-furan
Inchi: InChI=1S/C7H12Cl2O2/c8-4-6(5-9)11-7-2-1-3-10-7/h6-7H,1-5H2
InchiKey: URMBWULTRXBFGL-UHFFFAOYSA-N
Formula: C7H12Cl2O2
SMILES: ClCC(CCl)OC1CCCO1
Mol. weight [g/mol]: 199.07

Physical Properties

Property code	Value	Unit	Source
gf	-172.81	kJ/mol	Joback Method
hf	-428.31	kJ/mol	Joback Method
hfus	21.86	kJ/mol	Joback Method
hvap	46.73	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.986		Crippen Method
mcvol	134.850	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
rinpol	1300.00		NIST Webbook
rinpol	1300.00		NIST Webbook
tb	498.63	K	Joback Method
tc	710.07	K	Joback Method
tf	273.19	K	Joback Method
vc	0.499	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.64	J/mol×K	498.63	Joback Method
cpg	300.37	J/mol×K	533.87	Joback Method
cpg	313.36	J/mol×K	569.11	Joback Method
cpg	325.63	J/mol×K	604.35	Joback Method
cpg	337.19	J/mol×K	639.59	Joback Method
cpg	348.06	J/mol×K	674.83	Joback Method
cpg	358.25	J/mol×K	710.07	Joback Method

dvisc	0.0048131	Pa×s	273.19	Joback Method
dvisc	0.0023604	Pa×s	310.76	Joback Method
dvisc	0.0013500	Pa×s	348.34	Joback Method
dvisc	0.0008608	Pa×s	385.91	Joback Method
dvisc	0.0005945	Pa×s	423.48	Joback Method
dvisc	0.0004361	Pa×s	461.06	Joback Method
dvisc	0.0003352	Pa×s	498.63	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91084&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume