Tetrahydrofuran, 3-chloro-2-(2-chloroethoxy)

Other names: 2-(2-Chloro-ethoxy)-3-chloro-tetrahydro-furan
Inchi: InChI=1S/C6H10Cl2O2/c7-2-4-10-6-5(8)1-3-9-6/h5-6H,1-4H2
InchiKey: OUJQDJIQKWWGGW-UHFFFAOYSA-N
Formula: C6H10Cl2O2
SMILES: ClCCOC1OCCC1Cl
Mol. weight [g/mol]: 185.05

Physical Properties

Property code	Value	Unit	Source
gf	-186.50	kJ/mol	Joback Method
hf	-422.73	kJ/mol	Joback Method
hfus	23.86	kJ/mol	Joback Method
hvap	44.59	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.596		Crippen Method
mcvol	120.760	ml/mol	McGowan Method
pc	3276.53	kPa	Joback Method
rinpol	1210.00		NIST Webbook
rinpol	1210.00		NIST Webbook
tb	471.52	K	Joback Method
tc	680.98	K	Joback Method
tf	272.68	K	Joback Method
vc	0.449	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.99	J/mol×K	471.52	Joback Method
cpg	257.59	J/mol×K	506.43	Joback Method
cpg	269.58	J/mol×K	541.34	Joback Method
cpg	280.97	J/mol×K	576.25	Joback Method
cpg	291.75	J/mol×K	611.16	Joback Method
cpg	301.95	J/mol×K	646.07	Joback Method
cpg	311.56	J/mol×K	680.98	Joback Method

dvisc	0.0026616	Pa×s	272.68	Joback Method
dvisc	0.0016324	Pa×s	305.82	Joback Method
dvisc	0.0011016	Pa×s	338.96	Joback Method
dvisc	0.0007973	Pa×s	372.10	Joback Method
dvisc	0.0006084	Pa×s	405.24	Joback Method
dvisc	0.0004837	Pa×s	438.38	Joback Method
dvisc	0.0003971	Pa×s	471.52	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91226&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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