Tetrahydrofuran, 3-chloro-2-[2-chloro-1-(chloromethyl)ethyloxy]

Other names: 2-(2-Chloro-1-chloromethyl-ethoxy)- 3-chloro-tetrahydro-furan
Inchi: InChI=1S/C7H11Cl3O2/c8-3-5(4-9)12-7-6(10)1-2-11-7/h5-7H,1-4H2
InchiKey: QFPRNAFYPZCLKW-UHFFFAOYSA-N
Formula: C7H11Cl3O2
SMILES: ClCC(CCl)OC1OCCC1Cl
Mol. weight [g/mol]: 233.52

Physical Properties

Property code	Value	Unit	Source
gf	-192.45	kJ/mol	Joback Method
hf	-464.39	kJ/mol	Joback Method
hfus	27.13	kJ/mol	Joback Method
hvap	50.81	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.203		Crippen Method
mcvol	147.090	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
rinpol	1435.00		NIST Webbook
rinpol	1435.00		NIST Webbook
rinpol	1435.00		NIST Webbook
tb	531.39	K	Joback Method
tc	747.74	K	Joback Method
tf	298.87	K	Joback Method
vc	0.547	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.79	J/mol×K	531.39	Joback Method
cpg	328.18	J/mol×K	567.45	Joback Method
cpg	340.81	J/mol×K	603.51	Joback Method
cpg	352.70	J/mol×K	639.57	Joback Method
cpg	363.87	J/mol×K	675.62	Joback Method
cpg	374.32	J/mol×K	711.68	Joback Method

cpg	384.07	J/mol×K	747.74	Joback Method
dvisc	0.0033336	Pa×s	298.87	Joback Method
dvisc	0.0018499	Pa×s	337.62	Joback Method
dvisc	0.0011589	Pa×s	376.38	Joback Method
dvisc	0.0007922	Pa×s	415.13	Joback Method
dvisc	0.0005779	Pa×s	453.88	Joback Method
dvisc	0.0004430	Pa×s	492.64	Joback Method
dvisc	0.0003531	Pa×s	531.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91208&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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