2-Chloro-3-(3-chloro-tetrahydro-furan-2-yloxy)-pro

Other names: Tetrahydrofuran, 3-chloro-2-(2-chloro-3-hydroxypropyloxy)
Inchi: InChI=1S/C7H12Cl2O3/c8-5(3-10)4-12-7-6(9)1-2-11-7/h5-7,10H,1-4H2
InchiKey: SGTFJCLUKSQHEP-UHFFFAOYSA-N
Formula: C7H12Cl2O3
SMILES: OCC(Cl)COC1OCCC1Cl
Mol. weight [g/mol]: 215.07

Physical Properties

Property code	Value	Unit	Source
gf	-317.34	kJ/mol	Joback Method
hf	-600.88	kJ/mol	Joback Method
hfus	27.02	kJ/mol	Joback Method
hvap	63.11	kJ/mol	Joback Method
log10ws	-1.22		Crippen Method
logp	0.957		Crippen Method
mcvol	140.720	ml/mol	McGowan Method
pc	3291.59	kPa	Joback Method
rinpol	1455.00		NIST Webbook
rinpol	1485.00		NIST Webbook
tb	586.14	K	Joback Method
tc	783.55	K	Joback Method
tf	329.77	K	Joback Method
vc	0.517	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	339.89	J/mol×K	586.14	Joback Method
cpg	392.35	J/mol×K	750.65	Joback Method
cpg	383.08	J/mol×K	717.75	Joback Method
cpg	373.20	J/mol×K	684.84	Joback Method
cpg	362.72	J/mol×K	651.94	Joback Method
cpg	351.62	J/mol×K	619.04	Joback Method
cpg	401.03	J/mol×K	783.55	Joback Method

dvisc	0.0001361	Pa×s	586.14	Joback Method
dvisc	0.0002058	Pa×s	543.41	Joback Method
dvisc	0.0003338	Pa×s	500.68	Joback Method
dvisc	0.0005928	Pa×s	457.95	Joback Method
dvisc	0.0011849	Pa×s	415.23	Joback Method
dvisc	0.0027760	Pa×s	372.50	Joback Method
dvisc	0.0081091	Pa×s	329.77	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91212&Units=SI

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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