

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

Other names:	Tetrahydrofuran, 3-chloro-2-(3-chloro-2-hydroxypropyloxy)
Inchi:	InChI=1S/C7H12Cl2O3/c8-3-5(10)4-12-7-6(9)1-2-11-7/h5-7,10H,1-4H2
InchiKey:	QGSNYZYSMMVJTH-UHFFFAOYSA-N
Formula:	C7H12Cl2O3
SMILES:	OC(CCl)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	1485.00		NIST Webbook
rinpol	1450.00		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/molxK	586.14	Joback Method
cpg	351.62	J/molxK	619.04	Joback Method
cpg	362.72	J/molxK	651.94	Joback Method
cpg	373.20	J/molxK	684.84	Joback Method
cpg	383.08	J/molxK	717.75	Joback Method
cpg	392.35	J/molxK	750.65	Joback Method
cpg	401.03	J/molxK	783.55	Joback Method

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

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91262&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
mvol:	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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