

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

Inchi:	InChI=1S/C7H12Cl2O2/c1-5(8)4-11-7-6(9)2-3-10-7/h5-7H,2-4H2,1H3
InchiKey:	IYTWFIJXAPPSGJ-UHFFFAOYSA-N
Formula:	C7H12Cl2O2
SMILES:	CC(Cl)COC1OCCC1Cl
Mol. weight [g/mol]:	199.07

Physical Properties

Property code	Value	Unit	Source
gf	-180.52	kJ/mol	Joback Method
hf	-448.65	kJ/mol	Joback Method
hfus	22.93	kJ/mol	Joback Method
hvap	46.43	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.984		Crippen Method
mcvol	134.850	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
rinpol	1250.00		NIST Webbook
tb	493.96	K	Joback Method
tc	705.20	K	Joback Method
tf	268.95	K	Joback Method
vc	0.498	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.74	J/molxK	493.96	Joback Method
cpg	351.19	J/molxK	669.99	Joback Method
cpg	339.89	J/molxK	634.78	Joback Method
cpg	327.91	J/molxK	599.58	Joback Method
cpg	315.23	J/molxK	564.37	Joback Method
cpg	301.84	J/molxK	529.17	Joback Method
cpg	361.81	J/molxK	705.20	Joback Method
dvisc	0.0003553	Paxs	493.96	Joback Method
dvisc	0.0004456	Paxs	456.46	Joback Method

dvisc	0.0005821	Paxs	418.96	Joback Method
dvisc	0.0008013	Paxs	381.45	Joback Method
dvisc	0.0011827	Paxs	343.95	Joback Method
dvisc	0.0019203	Paxs	306.45	Joback Method
dvisc	0.0035690	Paxs	268.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91230&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
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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