

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

Inchi:	InChI=1S/C7H12Cl2O2/c8-3-1-4-10-7-6(9)2-5-11-7/h6-7H,1-5H2
InchiKey:	KAPYBTZOMKJIRB-UHFFFAOYSA-N
Formula:	C7H12Cl2O2
SMILES:	C1CCOC1OCCC1Cl
Mol. weight [g/mol]:	199.07

Physical Properties

Property code	Value	Unit	Source
gf	-178.08	kJ/mol	Joback Method
hf	-443.37	kJ/mol	Joback Method
hfus	26.45	kJ/mol	Joback Method
hvap	46.81	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.986		Crippen Method
mcvol	134.850	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
rinpol	1315.00		NIST Webbook
rinpol	1315.00		NIST Webbook
tb	494.40	K	Joback Method
tc	700.90	K	Joback Method
tf	283.95	K	Joback Method
vc	0.504	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.52	J/mol×K	494.40	Joback Method
cpg	349.40	J/mol×K	666.48	Joback Method
cpg	338.33	J/mol×K	632.06	Joback Method
cpg	326.62	J/mol×K	597.65	Joback Method
cpg	314.26	J/mol×K	563.23	Joback Method
cpg	301.23	J/mol×K	528.82	Joback Method
cpg	359.82	J/mol×K	700.90	Joback Method
dvisc	0.0003754	Paxs	494.40	Joback Method

dvisc	0.0004606	Paxs	459.32	Joback Method
dvisc	0.0005846	Paxs	424.25	Joback Method
dvisc	0.0007745	Paxs	389.18	Joback Method
dvisc	0.0010850	Paxs	354.10	Joback Method
dvisc	0.0016368	Paxs	319.03	Joback Method
dvisc	0.0027334	Paxs	283.95	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91276&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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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