Tetrahydrofuran, 3-chloro-2-(4-chlorobutyloxy)

Other names: 2-(4-Chloro-butoxy)-3-chloro-tetrahydro-furan
Inchi: InChI=1S/C8H14Cl2O2/c9-4-1-2-5-11-8-7(10)3-6-12-8/h7-8H,1-6H2
InchiKey: LWNIBOOTGWNIBR-UHFFFAOYSA-N
Formula: C8H14Cl2O2
SMILES: ClCCCCOC1OCCC1Cl
Mol. weight [g/mol]: 213.10

Physical Properties

Property code	Value	Unit	Source
gf	-169.66	kJ/mol	Joback Method
hf	-464.01	kJ/mol	Joback Method
hfus	29.04	kJ/mol	Joback Method
hvap	49.04	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	2.376		Crippen Method
mcvol	148.940	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
rinpol	1415.00		NIST Webbook
rinpol	1415.00		NIST Webbook
tb	517.28	K	Joback Method
tc	720.80	K	Joback Method
tf	295.22	K	Joback Method
vc	0.560	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.03	J/mol×K	517.28	Joback Method
cpg	398.19	J/mol×K	686.88	Joback Method
cpg	386.37	J/mol×K	652.96	Joback Method
cpg	373.86	J/mol×K	619.04	Joback Method
cpg	360.64	J/mol×K	585.12	Joback Method
cpg	346.70	J/mol×K	551.20	Joback Method
cpg	409.33	J/mol×K	720.80	Joback Method

dvisc	0.0003509	Pa×s	517.28	Joback Method
dvisc	0.0004335	Pa×s	480.27	Joback Method
dvisc	0.0005547	Pa×s	443.26	Joback Method
dvisc	0.0007425	Pa×s	406.25	Joback Method
dvisc	0.0010537	Pa×s	369.24	Joback Method
dvisc	0.0016165	Pa×s	332.23	Joback Method
dvisc	0.0027608	Pa×s	295.22	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=R91280&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