Tetrahydrofuran, 2-butoxy-3-chloro

Other names: 2-butoxy-3-chloro-tetrahydro-furan
Inchi: InChI=1S/C8H15ClO2/c1-2-3-5-10-8-7(9)4-6-11-8/h7-8H,2-6H2,1H3
InchiKey: ZPGDXEHNGNDACX-UHFFFAOYSA-N
Formula: C8H15ClO2
SMILES: CCCCOC1OCCC1Cl
Mol. weight [g/mol]: 178.66

Physical Properties

Property code	Value	Unit	Source
gf	-157.73	kJ/mol	Joback Method
hf	-448.27	kJ/mol	Joback Method
hfus	24.85	kJ/mol	Joback Method
hvap	44.66	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.157		Crippen Method
mcvol	136.700	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
rinpol	1170.00		NIST Webbook
rinpol	1170.00		NIST Webbook
tb	479.85	K	Joback Method
tc	677.97	K	Joback Method
tf	265.30	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.54	J/mol×K	479.85	Joback Method
cpg	317.85	J/mol×K	512.87	Joback Method
cpg	332.47	J/mol×K	545.89	Joback Method
cpg	346.41	J/mol×K	578.91	Joback Method
cpg	359.68	J/mol×K	611.93	Joback Method
cpg	372.29	J/mol×K	644.95	Joback Method
cpg	384.24	J/mol×K	677.97	Joback Method

dvisc	0.0027993	Pa×s	265.30	Joback Method
dvisc	0.0016016	Pa×s	301.06	Joback Method
dvisc	0.0010317	Pa×s	336.82	Joback Method
dvisc	0.0007231	Pa×s	372.58	Joback Method
dvisc	0.0005394	Pa×s	408.33	Joback Method
dvisc	0.0004218	Pa×s	444.09	Joback Method
dvisc	0.0003421	Pa×s	479.85	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=R91123&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