Tetrahydrofuran, 3-chloro-2-(1-methylethyloxy)

Other names: 2-Isopropoxy-3-chloro-tetrahydro-furan
Inchi: InChI=1S/C7H13ClO2/c1-5(2)10-7-6(8)3-4-9-7/h5-7H,3-4H2,1-2H3
InchiKey: BVDLBHWETOJDQT-UHFFFAOYSA-N
Formula: C7H13ClO2
SMILES: CC(C)OC1OCCC1Cl
Mol. weight [g/mol]: 164.63

Physical Properties

Property code	Value	Unit	Source
gf	-168.59	kJ/mol	Joback Method
hf	-432.91	kJ/mol	Joback Method
hfus	18.73	kJ/mol	Joback Method
hvap	42.04	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	1.765		Crippen Method
mcvol	122.610	ml/mol	McGowan Method
pc	3093.29	kPa	Joback Method
rinpol	1025.00		NIST Webbook
rinpol	1025.00		NIST Webbook
tb	456.53	K	Joback Method
tc	661.84	K	Joback Method
tf	239.03	K	Joback Method
vc	0.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.36	J/mol×K	456.53	Joback Method
cpg	274.05	J/mol×K	490.75	Joback Method
cpg	288.07	J/mol×K	524.97	Joback Method
cpg	301.42	J/mol×K	559.19	Joback Method
cpg	314.12	J/mol×K	593.41	Joback Method
cpg	326.17	J/mol×K	627.62	Joback Method
cpg	337.58	J/mol×K	661.84	Joback Method

dvisc	0.0036458	Pa×s	239.03	Joback Method
dvisc	0.0018917	Pa×s	275.28	Joback Method
dvisc	0.0011435	Pa×s	311.53	Joback Method
dvisc	0.0007677	Pa×s	347.78	Joback Method
dvisc	0.0005557	Pa×s	384.03	Joback Method
dvisc	0.0004253	Pa×s	420.28	Joback Method
dvisc	0.0003396	Pa×s	456.53	Joback Method

Sources

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=R91173&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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