

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
mvol	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	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0003396	Paxs	456.53	Joback Method
dvisc	0.0004253	Paxs	420.28	Joback Method
dvisc	0.0005557	Paxs	384.03	Joback Method
dvisc	0.0007677	Paxs	347.78	Joback Method
dvisc	0.0011435	Paxs	311.53	Joback Method
dvisc	0.0018917	Paxs	275.28	Joback Method
dvisc	0.0036458	Paxs	239.03	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=R91173&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

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