

Tetrahydrofuran, 3-chloro-2-methoxy

Other names:	2-Methoxy-3-chloro-tetrahydro-furan
Inchi:	InChI=1S/C5H9ClO2/c1-7-5-4(6)2-3-8-5/h4-5H,2-3H2,1H3
InchiKey:	FHZWDWSIYSLGAY-UHFFFAOYSA-N
Formula:	C5H9ClO2
SMILES:	COC1OCCC1Cl
Mol. weight [g/mol]:	136.58

Physical Properties

Property code	Value	Unit	Source
gf	-182.99	kJ/mol	Joback Method
hf	-386.35	kJ/mol	Joback Method
hfus	17.08	kJ/mol	Joback Method
hvap	37.98	kJ/mol	Joback Method
log10ws	-0.86		Crippen Method
logp	0.987		Crippen Method
mvol	94.430	ml/mol	McGowan Method
pc	3838.78	kPa	Joback Method
tb	411.21	K	Joback Method
tc	616.40	K	Joback Method
tf	231.49	K	Joback Method
vc	0.344	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	179.12	J/molxK	411.21	Joback Method
cpg	232.84	J/molxK	582.20	Joback Method
cpg	223.07	J/molxK	548.00	Joback Method
cpg	212.81	J/molxK	513.81	Joback Method
cpg	202.07	J/molxK	479.61	Joback Method
cpg	190.84	J/molxK	445.41	Joback Method
cpg	242.13	J/molxK	616.40	Joback Method
dvisc	0.0003689	Paxs	411.21	Joback Method
dvisc	0.0004435	Paxs	381.26	Joback Method

dvisc	0.0005503	Paxs	351.30	Joback Method
dvisc	0.0007109	Paxs	321.35	Joback Method
dvisc	0.0009679	Paxs	291.40	Joback Method
dvisc	0.0014143	Paxs	261.44	Joback Method
dvisc	0.0022799	Paxs	231.49	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91315&Units=SI
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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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