

2-Chloromethoxy-3-chloro-tetrahydro-furan

Other names:	Tetrahydrofuran, 3-chloro-2-chloromethoxy
Inchi:	InChI=1S/C5H8Cl2O2/c6-3-9-5-4(7)1-2-8-5/h4-5H,1-3H2
InchiKey:	KXPHIXYZKVEVPV-UHFFFAOYSA-N
Formula:	C5H8Cl2O2
SMILES:	CICOC1OCCC1Cl
Mol. weight [g/mol]:	171.02

Physical Properties

Property code	Value	Unit	Source
gf	-194.92	kJ/mol	Joback Method
hf	-402.09	kJ/mol	Joback Method
hfus	21.27	kJ/mol	Joback Method
hvap	42.36	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.553		Crippen Method
mcpvol	106.670	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
rinpol	1085.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1085.00		NIST Webbook
tb	448.64	K	Joback Method
tc	661.01	K	Joback Method
tf	261.41	K	Joback Method
vc	0.393	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.56	J/molxK	448.64	Joback Method
cpg	215.90	J/molxK	484.03	Joback Method
cpg	226.70	J/molxK	519.43	Joback Method
cpg	236.96	J/molxK	554.82	Joback Method
cpg	246.70	J/molxK	590.22	Joback Method
cpg	255.90	J/molxK	625.61	Joback Method

cpg	264.57	J/mol×K	661.01	Joback Method
dvisc	0.0025432	Paxs	261.41	Joback Method
dvisc	0.0015999	Paxs	292.61	Joback Method
dvisc	0.0011006	Paxs	323.82	Joback Method
dvisc	0.0008085	Paxs	355.02	Joback Method
dvisc	0.0006243	Paxs	386.23	Joback Method
dvisc	0.0005011	Paxs	417.43	Joback Method
dvisc	0.0004147	Paxs	448.64	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91294&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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