

Tetrahydrofuran, 3-chloro-2-ethoxy

Other names:	2-Ethoxy-3-chloro-tetrahydro-furan
Inchi:	InChI=1S/C6H11ClO2/c1-2-8-6-5(7)3-4-9-6/h5-6H,2-4H2,1H3
InchiKey:	ULYNPFRGQYMXHQ-UHFFFAOYSA-N
Formula:	C6H11ClO2
SMILES:	CCOC1OCCC1Cl
Mol. weight [g/mol]:	150.60

Physical Properties

Property code	Value	Unit	Source
gf	-174.57	kJ/mol	Joback Method
hf	-406.99	kJ/mol	Joback Method
hfus	19.67	kJ/mol	Joback Method
hvap	40.20	kJ/mol	Joback Method
log10ws	-1.28		Crippen Method
logp	1.377		Crippen Method
mvol	108.520	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
tb	434.09	K	Joback Method
tc	637.07	K	Joback Method
tf	242.76	K	Joback Method
vc	0.400	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	218.07	J/molxK	434.09	Joback Method
cpg	277.82	J/molxK	603.24	Joback Method
cpg	266.98	J/molxK	569.41	Joback Method
cpg	255.59	J/molxK	535.58	Joback Method
cpg	243.64	J/molxK	501.75	Joback Method
cpg	231.14	J/molxK	467.92	Joback Method
cpg	288.12	J/molxK	637.07	Joback Method
dvisc	0.0003660	Paxs	434.09	Joback Method
dvisc	0.0004440	Paxs	402.20	Joback Method

dvisc	0.0005570	Paxs	370.31	Joback Method
dvisc	0.0007293	Paxs	338.42	Joback Method
dvisc	0.0010098	Paxs	306.54	Joback Method
dvisc	0.0015081	Paxs	274.65	Joback Method
dvisc	0.0025025	Paxs	242.76	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91301&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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