

2-(2-Chloro-ethoxy)-tetrahydro-furan

Other names:	Tetrahydrofuran, 2-(2-chloroethoxy)
Inchi:	InChI=1S/C6H11ClO2/c7-3-5-9-6-2-1-4-8-6/h6H,1-5H2
InchiKey:	HWSKZKXGKIACEW-UHFFFAOYSA-N
Formula:	C6H11ClO2
SMILES:	CICCOCC1CCCO1
Mol. weight [g/mol]:	150.60

Physical Properties

Property code	Value	Unit	Source
gf	-166.86	kJ/mol	Joback Method
hf	-386.65	kJ/mol	Joback Method
hfus	18.59	kJ/mol	Joback Method
hvap	40.51	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	1.378		Crippen Method
mvol	108.520	ml/mol	McGowan Method
pc	3555.77	kPa	Joback Method
rinpol	1070.00		NIST Webbook
rinpol	1070.00		NIST Webbook
tb	438.76	K	Joback Method
tc	642.13	K	Joback Method
tf	247.00	K	Joback Method
vc	0.401	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.30	J/mol×K	438.76	Joback Method
cpg	230.10	J/mol×K	472.65	Joback Method
cpg	242.30	J/mol×K	506.55	Joback Method
cpg	253.91	J/mol×K	540.44	Joback Method
cpg	264.93	J/mol×K	574.34	Joback Method
cpg	275.39	J/mol×K	608.23	Joback Method
cpg	285.30	J/mol×K	642.13	Joback Method

dvisc	0.0037293	Paxs	247.00	Joback Method
dvisc	0.0020343	Paxs	278.96	Joback Method
dvisc	0.0012570	Paxs	310.92	Joback Method
dvisc	0.0008496	Paxs	342.88	Joback Method
dvisc	0.0006139	Paxs	374.84	Joback Method
dvisc	0.0004669	Paxs	406.80	Joback Method
dvisc	0.0003695	Paxs	438.76	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=R91098&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
mvol:	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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