Tetrahydrofuran, 3-chloro-2-(2-propenyloxy)

Other names: 2-Allyloxy-3-chloro-tetrahydro-furan
Inchi: InChI=1S/C7H11ClO2/c1-2-4-9-7-6(8)3-5-10-7/h2,6-7H,1,3-5H2
InchiKey: WGYVHRYKBDASQJ-UHFFFAOYSA-N
Formula: C7H11ClO2
SMILES: C=CCOC1OCCC1Cl
Mol. weight [g/mol]: 162.61

Physical Properties

Property code	Value	Unit	Source
gf	-78.31	kJ/mol	Joback Method
hf	-302.20	kJ/mol	Joback Method
hfus	20.98	kJ/mol	Joback Method
hvap	41.76	kJ/mol	Joback Method
log10ws	-1.55		Crippen Method
logp	1.543		Crippen Method
mcvol	118.310	ml/mol	McGowan Method
pc	3213.68	kPa	Joback Method
rinpol	1075.00		NIST Webbook
rinpol	1075.00		NIST Webbook
tb	453.65	K	Joback Method
tc	658.69	K	Joback Method
tf	252.27	K	Joback Method
vc	0.436	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.63	J/mol×K	453.65	Joback Method
cpg	304.27	J/mol×K	624.52	Joback Method
cpg	293.21	J/mol×K	590.34	Joback Method
cpg	281.52	J/mol×K	556.17	Joback Method
cpg	269.21	J/mol×K	522.00	Joback Method
cpg	256.25	J/mol×K	487.82	Joback Method
cpg	314.73	J/mol×K	658.69	Joback Method

dvisc	0.0003564	Pa×s	453.65	Joback Method
dvisc	0.0004316	Pa×s	420.09	Joback Method
dvisc	0.0005405	Pa×s	386.52	Joback Method
dvisc	0.0007063	Pa×s	352.96	Joback Method
dvisc	0.0009765	Pa×s	319.40	Joback Method
dvisc	0.0014567	Pa×s	285.83	Joback Method
dvisc	0.0024171	Pa×s	252.27	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91258&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
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