2H-Pyran, 4-chlorotetrahydro-

Other names: 4-Chlorotetrahydropyran
Inchi: InChI=1S/C5H9ClO/c6-5-1-3-7-4-2-5/h5H,1-4H2
InchiKey: DHRSKOBIDIDMJZ-UHFFFAOYSA-N
Formula: C5H9ClO
SMILES: ClC1CCOCC1
Mol. weight [g/mol]: 120.58
CAS: 1768-64-5

Physical Properties

Property code	Value	Unit	Source
gf	-82.38	kJ/mol	Joback Method
hf	-239.95	kJ/mol	Joback Method
hfus	12.72	kJ/mol	Joback Method
hvap	36.05	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	1.404		Crippen Method
mcvol	88.560	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
tb	423.20	K	NIST Webbook
tc	613.11	K	Joback Method
tf	209.98	K	Joback Method
vc	0.319	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.01	J/mol×K	397.73	Joback Method
cpg	166.79	J/mol×K	433.63	Joback Method
cpg	178.89	J/mol×K	469.52	Joback Method
cpg	190.34	J/mol×K	505.42	Joback Method
cpg	201.15	J/mol×K	541.32	Joback Method
cpg	211.34	J/mol×K	577.22	Joback Method
cpg	220.92	J/mol×K	613.11	Joback Method
dvisc	0.0073798	Pa×s	209.98	Joback Method

dvisc	0.0032986	Pa×s	241.27	Joback Method
dvisc	0.0017739	Pa×s	272.56	Joback Method
dvisc	0.0010839	Pa×s	303.86	Joback Method
dvisc	0.0007261	Pa×s	335.15	Joback Method
dvisc	0.0005209	Pa×s	366.44	Joback Method
dvisc	0.0003937	Pa×s	397.73	Joback Method

Sources

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=C1768645&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume