Tetrahydropyrane, 2-chloro, # 1

Other names: 2H-Pyran, tetrahydro, 2-chloro, # 1
Inchi: InChI=1S/C5H9ClO/c6-5-3-1-2-4-7-5/h5H,1-4H2
InchiKey: QRECIVPUECYDDM-UHFFFAOYSA-N
Formula: C5H9ClO
SMILES: ClC1CCCCO1
Mol. weight [g/mol]: 120.58

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	-1.66		Crippen Method
logp	1.752		Crippen Method
mcvol	88.560	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
rinpol	910.00		NIST Webbook
rinpol	895.00		NIST Webbook
rinpol	930.00		NIST Webbook
rinpol	945.00		NIST Webbook
rinpol	930.00		NIST Webbook
rinpol	930.00		NIST Webbook
tb	397.73	K	Joback Method
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: 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=R90907&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
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