2-Chloro-3,4-dihydro-2H-pyran

Inchi: InChI=1S/C5H7ClO/c6-5-3-1-2-4-7-5/h2,4-5H,1,3H2
InchiKey: IJXCBEOMAZHCSV-UHFFFAOYSA-N
Formula: C5H7ClO
SMILES: ClC1CCC=CO1
Mol. weight [g/mol]: 118.56

Physical Properties

Property code	Value	Unit	Source
gf	-52.42	kJ/mol	Joback Method
hf	-182.17	kJ/mol	Joback Method
hfus	13.94	kJ/mol	Joback Method
hvap	36.34	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	1.875		Crippen Method
mcvol	84.260	ml/mol	McGowan Method
pc	4426.72	kPa	Joback Method
rinpol	910.00		NIST Webbook
rinpol	910.00		NIST Webbook
tb	396.89	K	Joback Method
tc	614.63	K	Joback Method
tf	210.74	K	Joback Method
vc	0.304	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	141.53	J/mol×K	396.89	Joback Method
cpg	152.88	J/mol×K	433.18	Joback Method
cpg	163.60	J/mol×K	469.47	Joback Method
cpg	173.70	J/mol×K	505.76	Joback Method
cpg	183.19	J/mol×K	542.05	Joback Method
cpg	192.11	J/mol×K	578.34	Joback Method
cpg	200.45	J/mol×K	614.63	Joback Method
dvisc	0.0054581	Pa×s	210.74	Joback Method

dvisc	0.0026157	Pa×s	241.77	Joback Method
dvisc	0.0014819	Pa×s	272.79	Joback Method
dvisc	0.0009428	Pa×s	303.81	Joback Method
dvisc	0.0006523	Pa×s	334.84	Joback Method
dvisc	0.0004804	Pa×s	365.87	Joback Method
dvisc	0.0003711	Pa×s	396.89	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R132891&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