2H-Pyran, tetrahydro, 2,3-dichloro, # 2

Inchi: InChI=1S/C5H8Cl2O/c6-4-2-1-3-8-5(4)7/h4-5H,1-3H2
InchiKey: PHMXXMFOSQBXNV-UHFFFAOYSA-N
Formula: C5H8Cl2O
SMILES: ClC1CCCOC1Cl
Mol. weight [g/mol]: 155.02

Physical Properties

Property code	Value	Unit	Source
gf	-102.02	kJ/mol	Joback Method
hf	-276.03	kJ/mol	Joback Method
hfus	17.98	kJ/mol	Joback Method
hvap	40.12	kJ/mol	Joback Method
log10ws	-1.92		Crippen Method
logp	1.969		Crippen Method
mcvol	100.800	ml/mol	McGowan Method
pc	3862.67	kPa	Joback Method
rinpol	1095.00		NIST Webbook
rinpol	1095.00		NIST Webbook
tb	430.49	K	Joback Method
tc	653.29	K	Joback Method
tf	235.66	K	Joback Method
vc	0.366	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.00	J/mol×K	430.49	Joback Method
cpg	237.19	J/mol×K	616.16	Joback Method
cpg	227.26	J/mol×K	579.02	Joback Method
cpg	216.69	J/mol×K	541.89	Joback Method
cpg	205.47	J/mol×K	504.76	Joback Method
cpg	193.57	J/mol×K	467.62	Joback Method
cpg	246.49	J/mol×K	653.29	Joback Method
dvisc	0.0004178	Pa×s	430.49	Joback Method

dvisc	0.0005273	Pa×s	398.02	Joback Method
dvisc	0.0006934	Pa×s	365.55	Joback Method
dvisc	0.0009619	Pa×s	333.08	Joback Method
dvisc	0.0014322	Pa×s	300.60	Joback Method
dvisc	0.0023483	Pa×s	268.13	Joback Method
dvisc	0.0044123	Pa×s	235.66	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=R90840&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume