1,3-Cyclohexanedimethanol, 2-hydroxy-5-methyl-

Inchi: InChI=1S/C9H18O3/c1-6-2-7(4-10)9(12)8(3-6)5-11/h6-12H,2-5H2,1H3
InchiKey: VGNOCVYYJJSUEN-UHFFFAOYSA-N
Formula: C9H18O3
SMILES: CC1CC(CO)C(O)C(CO)C1
Mol. weight [g/mol]: 174.24
CAS: 90677-23-9

Physical Properties

Property code	Value	Unit	Source
gf	-384.24	kJ/mol	Joback Method
hf	-692.48	kJ/mol	Joback Method
hfus	26.38	kJ/mol	Joback Method
hvap	85.17	kJ/mol	Joback Method
log10ws	-0.66		Crippen Method
logp	-0.006		Crippen Method
mcvol	144.420	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
tb	687.40	K	Joback Method
tc	862.11	K	Joback Method
tf	368.31	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.95	J/mol×K	687.40	Joback Method
cpg	458.04	J/mol×K	716.52	Joback Method
cpg	469.52	J/mol×K	745.64	Joback Method
cpg	480.39	J/mol×K	774.76	Joback Method
cpg	490.66	J/mol×K	803.87	Joback Method
cpg	500.34	J/mol×K	832.99	Joback Method
cpg	509.42	J/mol×K	862.11	Joback Method
dvisc	0.0116633	Pa×s	368.31	Joback Method
dvisc	0.0016561	Pa×s	421.49	Joback Method

dvisc	0.0003642	Pa×s	474.67	Joback Method
dvisc	0.0001087	Pa×s	527.86	Joback Method
dvisc	0.0000405	Pa×s	581.04	Joback Method
dvisc	0.0000178	Pa×s	634.22	Joback Method
dvisc	0.0000089	Pa×s	687.40	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=C90677239&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume