

2-Methylenecyclohexanol

Other names:	Cyclohexanol, 2-methylene- 1-hydroxy-2-methylenecyclohexane
Inchi:	InChI=1S/C7H12O/c1-6-4-2-3-5-7(6)8/h7-8H,1-5H2
InchiKey:	GTAPKXQXCYRLRG-UHFFFAOYSA-N
Formula:	C7H12O
SMILES:	C=C1CCCCC1O
Mol. weight [g/mol]:	112.17
CAS:	4065-80-9

Physical Properties

Property code	Value	Unit	Source
gf	-51.23	kJ/mol	Joback Method
hf	-201.48	kJ/mol	Joback Method
hfus	8.65	kJ/mol	Joback Method
hvap	48.44	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	1.477		Crippen Method
mcvol	100.200	ml/mol	McGowan Method
pc	4036.37	kPa	Joback Method
tb	470.45	K	Joback Method
tc	664.94	K	Joback Method
tf	250.53	K	Joback Method
vc	0.363	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	214.58	J/mol×K	470.45	Joback Method
cpg	271.31	J/mol×K	632.52	Joback Method
cpg	261.09	J/mol×K	600.11	Joback Method
cpg	250.33	J/mol×K	567.69	Joback Method
cpg	238.99	J/mol×K	535.28	Joback Method
cpg	227.08	J/mol×K	502.86	Joback Method
cpg	280.98	J/mol×K	664.94	Joback Method

dvisc	0.0002138	Pa×s	470.45	Joback Method
dvisc	0.0003447	Pa×s	433.80	Joback Method
dvisc	0.0006072	Pa×s	397.14	Joback Method
dvisc	0.0012001	Pa×s	360.49	Joback Method
dvisc	0.0027674	Pa×s	323.84	Joback Method
dvisc	0.0078983	Pa×s	287.18	Joback Method
dvisc	0.0306389	Pa×s	250.53	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=C4065809&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

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