

Cyclohexanemethanol, 4-methylene-

Other names:	4-Methylenecyclohexanemethanol 4-Methylenecyclohexylmethanol 1-Hydroxymethly-4-methylenecyclohexane
Inchi:	InChI=1S/C8H14O/c1-7-2-4-8(6-9)5-3-7/h8-9H,1-6H2
InchiKey:	VEDQBZWFMDFHU-UHFFFAOYSA-N
Formula:	C8H14O
SMILES:	C=C1CCC(CO)CC1
Mol. weight [g/mol]:	126.20
CAS:	1004-24-6

Physical Properties

Property code	Value	Unit	Source
gf	-42.81	kJ/mol	Joback Method
hf	-222.12	kJ/mol	Joback Method
hfus	11.24	kJ/mol	Joback Method
hvap	50.67	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	1.725		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3585.64	kPa	Joback Method
tb	493.33	K	Joback Method
tc	685.51	K	Joback Method
tf	261.80	K	Joback Method
vc	0.419	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.61	J/mol×K	493.33	Joback Method
cpg	318.88	J/mol×K	653.48	Joback Method
cpg	307.86	J/mol×K	621.45	Joback Method
cpg	296.23	J/mol×K	589.42	Joback Method
cpg	283.99	J/mol×K	557.39	Joback Method
cpg	271.12	J/mol×K	525.36	Joback Method

cpg	329.33	J/mol×K	685.51	Joback Method
dvisc	0.0001835	Pa×s	493.33	Joback Method
dvisc	0.0002947	Pa×s	454.74	Joback Method
dvisc	0.0005169	Pa×s	416.15	Joback Method
dvisc	0.0010169	Pa×s	377.56	Joback Method
dvisc	0.0023338	Pa×s	338.98	Joback Method
dvisc	0.0066300	Pa×s	300.39	Joback Method
dvisc	0.0256239	Pa×s	261.80	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=C1004246&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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