1-Methyl-2-methylenecyclohexane

Other names: 2-Methyl-methylenecyclohexane
Inchi: InChI=1S/C8H14/c1-7-5-3-4-6-8(7)2/h8H,1,3-6H2,2H3
InchiKey: QJXCDRBHYIAFTH-UHFFFAOYSA-N
Formula: C8H14
SMILES: C=C1CCCCC1C
Mol. weight [g/mol]: 110.20
CAS: 2808-75-5

Physical Properties

Property code	Value	Unit	Source
gf	94.01	kJ/mol	Joback Method
hf	-69.89	kJ/mol	Joback Method
hfus	7.15	kJ/mol	Joback Method
hvap	33.99	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.753		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
tb	401.15	K	Joback Method
tc	603.93	K	Joback Method
tf	200.98	K	Joback Method
vc	0.401	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.35	J/mol×K	401.15	Joback Method
cpg	272.33	J/mol×K	570.13	Joback Method
cpg	259.32	J/mol×K	536.33	Joback Method
cpg	245.63	J/mol×K	502.54	Joback Method
cpg	231.25	J/mol×K	468.74	Joback Method
cpg	216.16	J/mol×K	434.95	Joback Method
cpg	284.69	J/mol×K	603.93	Joback Method
dvisc	0.0002732	Pa×s	401.15	Joback Method

dvisc	0.0003453	Pa×s	367.79	Joback Method
dvisc	0.0004573	Pa×s	334.43	Joback Method
dvisc	0.0006445	Pa×s	301.06	Joback Method
dvisc	0.0009895	Pa×s	267.70	Joback Method
dvisc	0.0017162	Pa×s	234.34	Joback Method
dvisc	0.0035739	Pa×s	200.98	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=C2808755&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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