

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:	QJXCDBHYIAFTH-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	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.35	J/mol×K	401.15	Joback Method
cpg	216.16	J/mol×K	434.95	Joback Method
cpg	231.25	J/mol×K	468.74	Joback Method
cpg	245.63	J/mol×K	502.54	Joback Method
cpg	259.32	J/mol×K	536.33	Joback Method
cpg	272.33	J/mol×K	570.13	Joback Method
cpg	284.69	J/mol×K	603.93	Joback Method
dvisc	0.0035739	Paxs	200.98	Joback Method

dvisc	0.0017162	Paxs	234.34	Joback Method
dvisc	0.0009895	Paxs	267.70	Joback Method
dvisc	0.0006445	Paxs	301.06	Joback Method
dvisc	0.0004573	Paxs	334.43	Joback Method
dvisc	0.0003453	Paxs	367.79	Joback Method
dvisc	0.0002732	Paxs	401.15	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2808755&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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