

Cyclohexane, 1,3-dimethyl-2-methylene-, cis-

Other names:	cis-1,3-Dimethyl-2-methylenecyclohexane cis-2,6-Dimethyl-1-methylenecyclohexane
Inchi:	InChI=1S/C9H16/c1-7-5-4-6-8(2)9(7)3/h7-8H,3-6H2,1-2H3/t7-,8+
InchiKey:	UTQSTOKTRPNZHE-OCAPTIKFSA-N
Formula:	C9H16
SMILES:	C=C1C(C)CCCC1C
Mol. weight [g/mol]:	124.22
CAS:	19781-47-6

Physical Properties

Property code	Value	Unit	Source
gf	94.72	kJ/mol	Joback Method
hf	-110.87	kJ/mol	Joback Method
hfus	10.81	kJ/mol	Joback Method
hvap	35.91	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mvol	122.510	ml/mol	McGowan Method
pc	2796.51	kPa	Joback Method
tb	419.36	K	Joback Method
tc	619.71	K	Joback Method
tf	208.01	K	Joback Method
vc	0.456	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	241.69	J/mol×K	419.36	Joback Method
cpg	258.94	J/mol×K	452.75	Joback Method
cpg	275.44	J/mol×K	486.14	Joback Method
cpg	291.21	J/mol×K	519.53	Joback Method
cpg	306.26	J/mol×K	552.93	Joback Method
cpg	320.59	J/mol×K	586.32	Joback Method
cpg	334.23	J/mol×K	619.71	Joback Method

dvisc	0.0022507	Paxs	208.01	Joback Method
dvisc	0.0012179	Paxs	243.23	Joback Method
dvisc	0.0007698	Paxs	278.46	Joback Method
dvisc	0.0005394	Paxs	313.69	Joback Method
dvisc	0.0004061	Paxs	348.91	Joback Method
dvisc	0.0003221	Paxs	384.13	Joback Method
dvisc	0.0002656	Paxs	419.36	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19781476&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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

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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