3-Methylenecyclohexene

Other names: Cyclohexene, 3-methylene-
1-Methylene-2-cyclohexene
Inchi: InChI=1S/C7H10/c1-7-5-3-2-4-6-7/h3,5H,1-2,4,6H2
InchiKey: XVKFDCVTYBMNRZ-UHFFFAOYSA-N
Formula: C7H10
SMILES: C=C1C=CCCC1
Mol. weight [g/mol]: 94.15
CAS: 1888-90-0

Physical Properties

Property code	Value	Unit	Source
gf	123.26	kJ/mol	Joback Method
hf	28.87	kJ/mol	Joback Method
hfus	4.71	kJ/mol	Joback Method
hvap	32.37	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.283		Crippen Method
mcvol	90.030	ml/mol	McGowan Method
pc	3920.94	kPa	Joback Method
tb	382.00 ± 3.00	K	NIST Webbook
tc	589.39	K	Joback Method
tf	194.71	K	Joback Method
vc	0.332	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.14	J/mol×K	382.10	Joback Method
cpg	162.07	J/mol×K	416.65	Joback Method
cpg	174.34	J/mol×K	451.20	Joback Method
cpg	185.95	J/mol×K	485.75	Joback Method
cpg	196.93	J/mol×K	520.29	Joback Method
cpg	207.30	J/mol×K	554.84	Joback Method
cpg	217.08	J/mol×K	589.39	Joback Method

dvisc	0.0042247	Pa×s	194.71	Joback Method
dvisc	0.0019440	Pa×s	225.94	Joback Method
dvisc	0.0010801	Pa×s	257.17	Joback Method
dvisc	0.0006816	Pa×s	288.41	Joback Method
dvisc	0.0004706	Pa×s	319.64	Joback Method
dvisc	0.0003471	Pa×s	350.87	Joback Method
dvisc	0.0002690	Pa×s	382.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1888900&Units=SI
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

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