3-Methylenecyclopentene

Other names: Cyclopentene,3-methylene-
Inchi: InChI=1S/C6H8/c1-6-4-2-3-5-6/h2,4H,1,3,5H2
InchiKey: YWQLRBQGXHZJCF-UHFFFAOYSA-N
Formula: C6H8
SMILES: C=C1C=CCC1
Mol. weight [g/mol]: 80.13
CAS: 930-26-7

Physical Properties

Property code	Value	Unit	Source
gf	126.94	kJ/mol	Joback Method
hf	115.00	kJ/mol	NIST Webbook
hfus	4.22	kJ/mol	Joback Method
hvap	29.97	kJ/mol	Joback Method
ie	8.40	eV	NIST Webbook
log10ws	-1.94		Crippen Method
logp	1.893		Crippen Method
mcvol	75.940	ml/mol	McGowan Method
pc	4294.29	kPa	Joback Method
tb	354.95	K	Joback Method
tc	554.62	K	Joback Method
tf	186.96	K	Joback Method
vc	0.283	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	116.01	J/mol×K	354.95	Joback Method
cpg	163.49	J/mol×K	521.34	Joback Method
cpg	155.05	J/mol×K	488.06	Joback Method
cpg	146.11	J/mol×K	454.79	Joback Method
cpg	136.64	J/mol×K	421.51	Joback Method
cpg	126.62	J/mol×K	388.23	Joback Method
cpg	171.43	J/mol×K	554.62	Joback Method

dvisc	0.0002661	Pa×s	354.95	Joback Method
dvisc	0.0003217	Pa×s	326.95	Joback Method
dvisc	0.0004029	Pa×s	298.95	Joback Method
dvisc	0.0005286	Pa×s	270.95	Joback Method
dvisc	0.0007384	Pa×s	242.96	Joback Method
dvisc	0.0011253	Pa×s	214.96	Joback Method
dvisc	0.0019455	Pa×s	186.96	Joback Method

Sources

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=C930267&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
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