Cyclopentane, 1,2-dimethyl-3-methylene

Inchi: InChI=1S/C8H14/c1-6-4-5-7(2)8(6)3/h7-8H,1,4-5H2,2-3H3
InchiKey: SITNPFCTAOJHRR-UHFFFAOYSA-N
Formula: C8H14
SMILES: C=C1CCC(C)C1C
Mol. weight [g/mol]: 110.20

Physical Properties

Property code	Value	Unit	Source
gf	98.40	kJ/mol	Joback Method
hf	-84.07	kJ/mol	Joback Method
hfus	10.32	kJ/mol	Joback Method
hvap	33.51	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.609		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3018.96	kPa	Joback Method
rinpol	804.00		NIST Webbook
tb	392.21	K	Joback Method
tc	586.16	K	Joback Method
tf	200.26	K	Joback Method
vc	0.407	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.97	J/mol×K	392.21	Joback Method
cpg	217.01	J/mol×K	424.53	Joback Method
cpg	231.41	J/mol×K	456.86	Joback Method
cpg	245.18	J/mol×K	489.18	Joback Method
cpg	258.34	J/mol×K	521.51	Joback Method
cpg	270.90	J/mol×K	553.83	Joback Method
cpg	282.87	J/mol×K	586.16	Joback Method
dvisc	0.0011251	Pa×s	200.26	Joback Method
dvisc	0.0007578	Pa×s	232.25	Joback Method

dvisc	0.0005617	Pa×s	264.24	Joback Method
dvisc	0.0004442	Pa×s	296.24	Joback Method
dvisc	0.0003677	Pa×s	328.23	Joback Method
dvisc	0.0003147	Pa×s	360.22	Joback Method
dvisc	0.0002763	Pa×s	392.21	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R77301&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume