Cyclopentane, 1-methyl-2-methylene-

Other names:	1-Methylene-2-methylcyclopentane
	2-Methyl methylenecyclopentane
Inchi:	InChI=1S/C7H12/c1-6-4-3-5-7(6)2/h7H,1,3-5H2,2H3
InchiKey:	FADJUGSUYLCNJQ-UHFFFAOYSA-N
Formula:	C7H12
SMILES:	C=C1CCCC1C
Mol. weight [g/mol]:	96.17
CAS:	41158-41-2

Physical Properties

Property code	Value	Unit	Source
gf	97.69	kJ/mol	Joback Method
hf	-43.09	kJ/mol	Joback Method
hfus	6.66	kJ/mol	Joback Method
hvap	31.59	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.363		Crippen Method
mcvol	94.330	ml/mol	McGowan Method
pc	3497.14	kPa	Joback Method
rinpol	732.00		NIST Webbook
tb	374.00	K	Joback Method
tc	569.84	K	Joback Method
tf	193.23	K	Joback Method
vc	0.352	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.26	J/mol×K	374.00	Joback Method
cpg	176.80	J/mol×K	406.64	Joback Method
cpg	189.72	J/mol×K	439.28	Joback Method
cpg	202.03	J/mol×K	471.92	Joback Method
cpg	213.76	J/mol×K	504.56	Joback Method
cpg	224.91	J/mol×K	537.20	Joback Method

cpg	235.52	J/mol×K	569.84	Joback Method
dvisc	0.0017344	Pa×s	193.23	Joback Method
dvisc	0.0010433	Pa×s	223.36	Joback Method
dvisc	0.0007082	Pa×s	253.49	Joback Method
dvisc	0.0005220	Pa×s	283.62	Joback Method
dvisc	0.0004080	Pa×s	313.74	Joback Method
dvisc	0.0003329	Pa×s	343.87	Joback Method
dvisc	0.0002807	Pa×s	374.00	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C41158412&Units=SI

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

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