

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/molxK	392.21	Joback Method
cpg	217.01	J/molxK	424.53	Joback Method
cpg	231.41	J/molxK	456.86	Joback Method
cpg	245.18	J/molxK	489.18	Joback Method
cpg	258.34	J/molxK	521.51	Joback Method
cpg	270.90	J/molxK	553.83	Joback Method
cpg	282.87	J/molxK	586.16	Joback Method
dvisc	0.0011251	Paxs	200.26	Joback Method
dvisc	0.0007578	Paxs	232.25	Joback Method

dvisc	0.0005617	Paxs	264.24	Joback Method
dvisc	0.0004442	Paxs	296.24	Joback Method
dvisc	0.0003677	Paxs	328.23	Joback Method
dvisc	0.0003147	Paxs	360.22	Joback Method
dvisc	0.0002763	Paxs	392.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R77301&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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