Cyclopentane, 1-methyl-3-(2-methyl-2-propenyl)-

Inchi: InChI=1S/C10H18/c1-8(2)6-10-5-4-9(3)7-10/h9-10H,1,4-7H2,2-3H3
InchiKey: LRXVCZRWTBKTGT-UHFFFAOYSA-N
Formula: C10H18
SMILES: C=C(C)CC1CCC(C)C1
Mol. weight [g/mol]: 138.25
CAS: 75873-00-6

Physical Properties

Property code	Value	Unit	Source
gf	141.45	kJ/mol	Joback Method
hf	-93.95	kJ/mol	Joback Method
hfus	14.07	kJ/mol	Joback Method
hvap	37.21	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.389		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
rinpol	968.00		NIST Webbook
tb	435.37	K	Joback Method
tc	632.22	K	Joback Method
tf	193.40	K	Joback Method
vc	0.517	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.28	J/mol×K	435.37	Joback Method
cpg	301.84	J/mol×K	468.18	Joback Method
cpg	319.50	J/mol×K	500.99	Joback Method
cpg	336.27	J/mol×K	533.79	Joback Method
cpg	352.18	J/mol×K	566.60	Joback Method
cpg	367.28	J/mol×K	599.41	Joback Method
cpg	381.58	J/mol×K	632.22	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=C75873006&Units=SI

Legend

cpg:	Ideal gas heat capacity
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