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

Inchi: InChI=1S/C10H16/c1-8(2)6-10-5-4-9(3)7-10/h9H,4-5,7H2,1-3H3
InchiKey: UJWKMPAWDDGBKO-UHFFFAOYSA-N
Formula: C10H16
SMILES: CC(C)=C=C1CCC(C)C1
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	235.06	kJ/mol	Joback Method
hf	39.77	kJ/mol	Joback Method
hfus	16.73	kJ/mol	Joback Method
hvap	39.41	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	3.298		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
rinpol	944.00		NIST Webbook
tb	453.27	K	Joback Method
tc	666.23	K	Joback Method
tf	216.27	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.66	J/mol×K	453.27	Joback Method
cpg	291.68	J/mol×K	488.76	Joback Method
cpg	307.87	J/mol×K	524.26	Joback Method
cpg	323.23	J/mol×K	559.75	Joback Method
cpg	337.80	J/mol×K	595.24	Joback Method
cpg	351.60	J/mol×K	630.74	Joback Method
cpg	364.65	J/mol×K	666.23	Joback Method

Sources

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=R586951&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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