Cyclopentane, 2-methyl-1-methylene-3-(1-methylethenyl)-

Other names: 2-Methyl-1-methylene-3-(1-methylethenyl)-cyclopentane
Inchi: InChI=1S/C10H16/c1-7(2)10-6-5-8(3)9(10)4/h9-10H,1,3,5-6H2,2,4H3
InchiKey: VQSBVOFIUUAOOG-UHFFFAOYSA-N
Formula: C10H16
SMILES: C=C1CCC(C(=C)C)C1C
Mol. weight [g/mol]: 136.23
CAS: 56710-83-9

Physical Properties

Property code	Value	Unit	Source
gf	194.53	kJ/mol	Joback Method
hf	-9.71	kJ/mol	Joback Method
hfus	12.91	kJ/mol	Joback Method
hvap	37.37	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	3.165		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2589.85	kPa	Joback Method
tb	434.53	K	Joback Method
tc	633.18	K	Joback Method
tf	207.08	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.08	J/mol×K	434.53	Joback Method
cpg	286.12	J/mol×K	467.64	Joback Method
cpg	302.34	J/mol×K	500.75	Joback Method
cpg	317.76	J/mol×K	533.85	Joback Method
cpg	332.42	J/mol×K	566.96	Joback Method
cpg	346.34	J/mol×K	600.07	Joback Method
cpg	359.54	J/mol×K	633.18	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=C56710839&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume