Cyclopentene, 3-isopropenyl-5,5-dimethyl-

Other names: 3-Isopropenyl-5,5-dimethyl-cyclopentene
Inchi: InChI=1S/C10H16/c1-8(2)9-5-6-10(3,4)7-9/h5-6,9H,1,7H2,2-4H3
InchiKey: QMZFOCLHVQYNKM-UHFFFAOYSA-N
Formula: C10H16
SMILES: C=C(C)C1C=CC(C)(C)C1
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	165.92	kJ/mol	Joback Method
hf	-20.93	kJ/mol	Joback Method
hfus	9.00	kJ/mol	Joback Method
hvap	36.35	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	3.165		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2761.36	kPa	Joback Method
rinpol	1028.00		NIST Webbook
tb	434.77	K	Joback Method
tc	642.55	K	Joback Method
tf	218.06	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.86	J/mol×K	434.77	Joback Method
cpg	287.75	J/mol×K	469.40	Joback Method
cpg	304.41	J/mol×K	504.03	Joback Method
cpg	319.94	J/mol×K	538.66	Joback Method
cpg	334.44	J/mol×K	573.29	Joback Method
cpg	348.04	J/mol×K	607.92	Joback Method
cpg	360.83	J/mol×K	642.55	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=U162254&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