Cyclopropane, 1,1-dimethyl-2-(2-methyl-2-propenyl)-

Inchi: InChI=1S/C9H16/c1-7(2)5-8-6-9(8,3)4/h8H,1,5-6H2,2-4H3
InchiKey: INNCSJIBGYJUJK-UHFFFAOYSA-N
Formula: C9H16
SMILES: C=C(C)CC1CC1(C)C
Mol. weight [g/mol]: 124.22
CAS: 69147-03-1

Physical Properties

Property code	Value	Unit	Source
gf	151.74	kJ/mol	Joback Method
hf	-45.75	kJ/mol	Joback Method
hfus	9.38	kJ/mol	Joback Method
hvap	33.49	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
tb	404.19	K	Joback Method
tc	595.71	K	Joback Method
tf	213.07	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.84	J/mol×K	404.19	Joback Method
cpg	259.21	J/mol×K	436.11	Joback Method
cpg	274.46	J/mol×K	468.03	Joback Method
cpg	288.67	J/mol×K	499.95	Joback Method
cpg	301.93	J/mol×K	531.87	Joback Method
cpg	314.35	J/mol×K	563.79	Joback Method
cpg	326.02	J/mol×K	595.71	Joback Method

Sources

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=C69147031&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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