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

Other names: 1,1-Dimethyl-2-(2-methyl-1-propenyl)cyclopropane
Inchi: InChI=1S/C9H16/c1-7(2)5-8-6-9(8,3)4/h5,8H,6H2,1-4H3
InchiKey: JLEYIXWABQURRS-UHFFFAOYSA-N
Formula: C9H16
SMILES: CC(C)=CC1CC1(C)C
Mol. weight [g/mol]: 124.22
CAS: 33422-32-1

Physical Properties

Property code	Value	Unit	Source
gf	144.12	kJ/mol	Joback Method
hf	-53.96	kJ/mol	Joback Method
hfus	10.87	kJ/mol	Joback Method
hvap	34.12	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	2820.33	kPa	Joback Method
rinpol	820.10		NIST Webbook
rinpol	819.00		NIST Webbook
rinpol	819.40		NIST Webbook
tb	411.67	K	Joback Method
tc	608.88	K	Joback Method
tf	209.75	K	Joback Method
vc	0.474	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.84	J/mol×K	411.67	Joback Method
cpg	260.54	J/mol×K	444.54	Joback Method
cpg	276.03	J/mol×K	477.41	Joback Method
cpg	290.41	J/mol×K	510.28	Joback Method
cpg	303.80	J/mol×K	543.15	Joback Method

cpg	316.29	J/mol×K	576.01	Joback Method
cpg	328.00	J/mol×K	608.88	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C33422321&Units=SI
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

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