Cyclopropane, 1,2-dimethyl-3-(2-methyl-1-propenylidene)-trans-

Inchi: InChI=1S/C9H14/c1-6(2)5-9-7(3)8(9)4/h7-8H,1-4H3/t7-,8-/m1/s1
InchiKey: VAZXLGQWHLNHOI-HTQZYQBOSA-N
Formula: C9H14
SMILES: CC(C)=C=C1C(C)C1C
Mol. weight [g/mol]: 122.21
CAS: 37817-46-2

Physical Properties

Property code	Value	Unit	Source
gf	243.13	kJ/mol	Joback Method
hf	52.39	kJ/mol	Joback Method
hfus	19.42	kJ/mol	Joback Method
hvap	36.53	kJ/mol	Joback Method
ie	7.70	eV	NIST Webbook
log10ws	-2.73		Crippen Method
logp	2.764		Crippen Method
mcvol	118.210	ml/mol	McGowan Method
pc	2893.62	kPa	Joback Method
tb	417.18	K	Joback Method
tc	615.67	K	Joback Method
tf	207.80	K	Joback Method
vc	0.460	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	235.27	J/mol×K	417.18	Joback Method
cpg	249.46	J/mol×K	450.26	Joback Method
cpg	262.99	J/mol×K	483.34	Joback Method
cpg	275.88	J/mol×K	516.43	Joback Method
cpg	288.17	J/mol×K	549.51	Joback Method
cpg	299.86	J/mol×K	582.59	Joback Method
cpg	310.99	J/mol×K	615.67	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C37817462&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
ie:	Ionization energy
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