Cyclopropane, (1-methyl-1,2-propadienyl)-

Other names: (1-Methyl-1,2-propadienyl)cyclopropane
Cyclopropane,(1-methyl-1,2-propadienyl)-)
Inchi: InChI=1S/C7H10/c1-3-6(2)7-4-5-7/h7H,1,4-5H2,2H3
InchiKey: PPMXMHDIWQDNIE-UHFFFAOYSA-N
Formula: C7H10
SMILES: C=C=C(C)C1CC1
Mol. weight [g/mol]: 94.15
CAS: 51549-86-1

Physical Properties

Property code	Value	Unit	Source
gf	276.38	kJ/mol	Joback Method
hf	163.41	kJ/mol	Joback Method
hfus	11.56	kJ/mol	Joback Method
hvap	30.93	kJ/mol	Joback Method
ie	8.83	eV	NIST Webbook
log10ws	-2.13		Crippen Method
logp	2.128		Crippen Method
mcvol	90.030	ml/mol	McGowan Method
pc	3805.69	kPa	Joback Method
tb	366.13	K	Joback Method
tc	564.83	K	Joback Method
tf	177.38	K	Joback Method
vc	0.346	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	155.89	J/mol×K	366.13	Joback Method
cpg	167.92	J/mol×K	399.25	Joback Method
cpg	179.30	J/mol×K	432.36	Joback Method
cpg	190.08	J/mol×K	465.48	Joback Method
cpg	200.26	J/mol×K	498.60	Joback Method
cpg	209.89	J/mol×K	531.71	Joback Method

cpg	218.99	J/mol×K	564.83	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=C51549861&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
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