1-methyl-1-(1-methylethyl)-cyclopropane

Inchi: InChI=1S/C7H14/c1-6(2)7(3)4-5-7/h6H,4-5H2,1-3H3
InchiKey: QEJFJGSJIQQWRC-UHFFFAOYSA-N
Formula: C7H14
SMILES: CC(C)C1(C)CC1
Mol. weight [g/mol]: 98.19

Physical Properties

Property code	Value	Unit	Source
gf	60.88	kJ/mol	Joback Method
hf	-105.05	kJ/mol	Joback Method
hfus	2.20	kJ/mol	Joback Method
hvap	29.55	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.442		Crippen Method
mcvol	98.630	ml/mol	McGowan Method
pc	3431.89	kPa	Joback Method
rinpol	646.00		NIST Webbook
rinpol	646.00		NIST Webbook
tb	366.10	K	Joback Method
tc	557.12	K	Joback Method
tf	195.49	K	Joback Method
vc	0.377	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.58	J/mol×K	366.10	Joback Method
cpg	192.63	J/mol×K	397.94	Joback Method
cpg	206.55	J/mol×K	429.77	Joback Method
cpg	219.45	J/mol×K	461.61	Joback Method
cpg	231.40	J/mol×K	493.45	Joback Method
cpg	242.51	J/mol×K	525.29	Joback Method
cpg	252.85	J/mol×K	557.12	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=R137212&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