1-methyl-1-pentyl-cyclopropane

Inchi: InChI=1S/C9H18/c1-3-4-5-6-9(2)7-8-9/h3-8H2,1-2H3
InchiKey: FFJCKIUJZMFGII-UHFFFAOYSA-N
Formula: C9H18
SMILES: CCCCCC1(C)CC1
Mol. weight [g/mol]: 126.24

Physical Properties

Property code	Value	Unit	Source
gf	80.16	kJ/mol	Joback Method
hf	-141.05	kJ/mol	Joback Method
hfus	10.90	kJ/mol	Joback Method
hvap	34.39	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	3.367		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
rinpol	853.10		NIST Webbook
tb	412.30	K	Joback Method
tc	596.55	K	Joback Method
tf	233.03	K	Joback Method
vc	0.494	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.56	J/mol×K	412.30	Joback Method
cpg	274.83	J/mol×K	443.01	Joback Method
cpg	290.05	J/mol×K	473.72	Joback Method
cpg	304.29	J/mol×K	504.43	Joback Method
cpg	317.64	J/mol×K	535.14	Joback Method
cpg	330.18	J/mol×K	565.85	Joback Method
cpg	342.01	J/mol×K	596.55	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=R137227&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