1-Methyl-1-hexyl-cyclopropane

Inchi: InChI=1S/C10H20/c1-3-4-5-6-7-10(2)8-9-10/h3-9H2,1-2H3
InchiKey: MUUNHCADTLHWRS-UHFFFAOYSA-N
Formula: C10H20
SMILES: CCCCCCC1(C)CC1
Mol. weight [g/mol]: 140.27

Physical Properties

Property code	Value	Unit	Source
gf	88.58	kJ/mol	Joback Method
hf	-161.69	kJ/mol	Joback Method
hfus	13.49	kJ/mol	Joback Method
hvap	36.62	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.757		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2492.52	kPa	Joback Method
rinpol	959.91		NIST Webbook
rinpol	958.04		NIST Webbook
rinpol	954.49		NIST Webbook
rinpol	956.29		NIST Webbook
tb	435.18	K	Joback Method
tc	618.00	K	Joback Method
tf	244.30	K	Joback Method
vc	0.550	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.90	J/mol×K	435.18	Joback Method
cpg	318.88	J/mol×K	465.65	Joback Method
cpg	334.81	J/mol×K	496.12	Joback Method
cpg	349.78	J/mol×K	526.59	Joback Method
cpg	363.86	J/mol×K	557.06	Joback Method
cpg	377.14	J/mol×K	587.53	Joback Method

cpg	389.72	J/mol×K	618.00	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137207&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
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