Hexylcyclopropane

Other names: n-hexyl-cyclopropane
Inchi: InChI=1S/C9H18/c1-2-3-4-5-6-9-7-8-9/h9H,2-8H2,1H3
InchiKey: AOJZSYZUFZULLN-UHFFFAOYSA-N
Formula: C9H18
SMILES: CCCCCCC1CC1
Mol. weight [g/mol]: 126.24

Physical Properties

Property code	Value	Unit	Source
gf	85.65	kJ/mol	Joback Method
hf	-156.29	kJ/mol	Joback Method
hfus	17.20	kJ/mol	Joback Method
hvap	35.54	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	3.367		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2624.46	kPa	Joback Method
rinpol	914.60		NIST Webbook
rinpol	913.00		NIST Webbook
rinpol	916.60		NIST Webbook
rinpol	912.40		NIST Webbook
rinpol	912.70		NIST Webbook
rinpol	913.00		NIST Webbook
rinpol	913.00		NIST Webbook
tb	412.06	K	Joback Method
tc	588.62	K	Joback Method
tf	209.13	K	Joback Method
vc	0.496	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.71	J/mol×K	412.06	Joback Method
cpg	273.33	J/mol×K	441.49	Joback Method

cpg	288.21	J/mol×K	470.91	Joback Method
cpg	302.38	J/mol×K	500.34	Joback Method
cpg	315.87	J/mol×K	529.76	Joback Method
cpg	328.71	J/mol×K	559.19	Joback Method
cpg	340.93	J/mol×K	588.62	Joback Method
dvisc	0.0017420	Pa×s	209.13	Joback Method
dvisc	0.0011361	Pa×s	242.95	Joback Method
dvisc	0.0008226	Pa×s	276.77	Joback Method
dvisc	0.0006390	Pa×s	310.60	Joback Method
dvisc	0.0005216	Pa×s	344.42	Joback Method
dvisc	0.0004415	Pa×s	378.24	Joback Method
dvisc	0.0003841	Pa×s	412.06	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=R136873&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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