

1,2-Dihexylcyclopropene

Other names:	Cyclopropene, 1,2-dihexyl-
Inchi:	InChI=1S/C15H28/c1-3-5-7-9-11-14-13-15(14)12-10-8-6-4-2/h3-13H2,1-2H3
InchiKey:	OTAPPAKLMIEBOQ-UHFFFAOYSA-N
Formula:	C15H28
SMILES:	CCCCCCC1=C(CCCCCC)C1
Mol. weight [g/mol]:	208.38
CAS:	35365-52-7

Physical Properties

Property code	Value	Unit	Source
chl	-9445.60	kJ/mol	NIST Webbook
chs	-9058.00	kJ/mol	NIST Webbook
gf	154.58	kJ/mol	Joback Method
hf	-224.95	kJ/mol	Joback Method
hfus	32.11	kJ/mol	Joback Method
hvap	50.82	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.627		Crippen Method
mcvol	207.050	ml/mol	McGowan Method
pc	1614.17	kPa	Joback Method
tb	563.13	K	Joback Method
tc	735.72	K	Joback Method
tf	306.79	K	Joback Method
vc	0.820	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	527.86	J/molxK	563.13	Joback Method
cpg	545.61	J/molxK	591.90	Joback Method
cpg	562.56	J/molxK	620.66	Joback Method
cpg	578.75	J/molxK	649.43	Joback Method
cpg	594.23	J/molxK	678.19	Joback Method
cpg	609.02	J/molxK	706.96	Joback Method

cpg	623.16	J/mol×K	735.72	Joback Method
dvisc	0.0020928	Paxs	306.79	Joback Method
dvisc	0.0012686	Paxs	349.51	Joback Method
dvisc	0.0008576	Paxs	392.24	Joback Method
dvisc	0.0006261	Paxs	434.96	Joback Method
dvisc	0.0004835	Paxs	477.68	Joback Method
dvisc	0.0003896	Paxs	520.41	Joback Method
dvisc	0.0003244	Paxs	563.13	Joback Method

Sources

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=C35365527&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

chl:	Standard liquid enthalpy of combustion
chs:	Standard solid enthalpy of combustion
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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