

Cyclohexane, 1,2,3,4,5,6-hexaethyl-

Inchi:	InChI=1S/C18H36/c1-7-13-14(8-2)16(10-4)18(12-6)17(11-5)15(13)9-3/h13-18H,7-12H2,1
InchiKey:	FGKHJWVBPXIEEO-UHFFFAOYSA-N
Formula:	C18H36
SMILES:	CCC1C(CC)C(CC)C(CC)C(CC)C1CC
Mol. weight [g/mol]:	252.48
CAS:	1795-14-8

Physical Properties

Property code	Value	Unit	Source
gf	86.58	kJ/mol	Joback Method
hf	-462.23	kJ/mol	Joback Method
hfus	39.57	kJ/mol	Joback Method
hvap	54.55	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	6.157		Crippen Method
mvol	253.620	ml/mol	McGowan Method
pc	1184.16	kPa	Joback Method
rinpol	1622.00		NIST Webbook
rinpol	1622.00		NIST Webbook
tb	607.44	K	Joback Method
tc	786.68	K	Joback Method
tf	250.00 ± 1.66	K	NIST Webbook
vc	0.972	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	721.24	J/mol×K	607.44	Joback Method
cpg	835.94	J/mol×K	756.80	Joback Method
cpg	815.17	J/mol×K	726.93	Joback Method
cpg	793.33	J/mol×K	697.06	Joback Method
cpg	770.41	J/mol×K	667.19	Joback Method
cpg	746.38	J/mol×K	637.31	Joback Method
cpg	855.63	J/mol×K	786.68	Joback Method

dvisc	0.0002731	Paxs	607.44	Joback Method
dvisc	0.0003159	Paxs	552.67	Joback Method
dvisc	0.0003772	Paxs	497.89	Joback Method
dvisc	0.0004706	Paxs	443.12	Joback Method
dvisc	0.0006249	Paxs	388.35	Joback Method
dvisc	0.0009108	Paxs	333.57	Joback Method
dvisc	0.0015395	Paxs	278.80	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1795148&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

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

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