

Hexane, 1,6-dicyclohexyl-

Other names:	Cyclohexane, 1,1'-(1,6-hexanediyl)bis-
Inchi:	InChI=1S/C18H34/c1(5-11-17-13-7-3-8-14-17)2-6-12-18-15-9-4-10-16-18/h17-18H,1-16H
InchiKey:	VBQJFJRTZSWYPK-UHFFFAOYSA-N
Formula:	C18H34
SMILES:	C(CCCC1CCCCC1)CCC1CCCCC1
Mol. weight [g/mol]:	250.46
CAS:	1610-23-7

Physical Properties

Property code	Value	Unit	Source
chs	-11560.00	kJ/mol	NIST Webbook
gf	149.58	kJ/mol	Joback Method
hf	-306.21	kJ/mol	Joback Method
hfus	26.05	kJ/mol	Joback Method
hvap	56.52	kJ/mol	Joback Method
log10ws	-6.66		Crippen Method
logp	6.488		Crippen Method
mcvol	242.760	ml/mol	McGowan Method
pc	1554.90	kPa	Joback Method
tb	613.70 ± 0.60	K	NIST Webbook
tc	859.18	K	Joback Method
tf	280.10 ± 2.00	K	NIST Webbook
tf	283.36 ± 0.30	K	NIST Webbook
tf	283.36 ± 1.00	K	NIST Webbook
vc	0.909	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	717.20	J/mol×K	650.34	Joback Method
cpg	743.76	J/mol×K	685.15	Joback Method
cpg	768.72	J/mol×K	719.95	Joback Method
cpg	792.13	J/mol×K	754.76	Joback Method
cpg	814.06	J/mol×K	789.57	Joback Method

cpg	834.55	J/mol×K	824.38	Joback Method
cpg	853.67	J/mol×K	859.18	Joback Method
dvisc	0.0066166	Pa×s	307.38	Joback Method
dvisc	0.0020956	Pa×s	364.54	Joback Method
dvisc	0.0009065	Pa×s	421.70	Joback Method
dvisc	0.0004789	Pa×s	478.86	Joback Method
dvisc	0.0002899	Pa×s	536.02	Joback Method
dvisc	0.0001933	Pa×s	593.18	Joback Method
dvisc	0.0001385	Pa×s	650.34	Joback Method
hvapt	85.90	kJ/mol	330.50	NIST Webbook

Sources

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=C1610237&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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
hvapt:	Enthalpy of vaporization at a given temperature
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

Latest version available from:

<https://www.chemeo.com/cid/52-246-1/Hexane-1-6-dicyclohexyl.pdf>

Generated by Cheméo on 2025-12-22 06:00:04.509230026 +0000 UTC m=+6131402.039270695.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.