

# Dicyclohexano-18-crown-6

<b>Other names:</b>	Dibenzo[b,k][1,4,7,10,13,16]hexaoxacyclooctadecin, eicosahydro-Dicyclohexo-18-crown-6 Dicyclohexyl-18-crown-6 Dicyclohexyl-18-crown-6 ether Perhydrodibenzo-18-crown-6 2,5,8,15,18,21-Hexaoxatricyclo[20.4.0.0(9,14)]hexacosane Dicyclohexano-18-crown-6 ether Crown ether dicyclohexyl-18-crown-6 NSC 252171 2,3,11,12-Dicyclohexano-1,4,7-10,13,16-hexaoxacyclooctadecane cis-Dicyclohexano-18-crown-6 DCH-18-crown-6 icosahydrodibenzo[b,k][1,4,7,10,13,16]hexaoxacyclooctadecin
<b>Inchi:</b>	InChI=1S/C20H36O6/c1-2-6-18-17(5-1)23-13-9-21-11-15-25-19-7-3-4-8-20(19)26-16-12
<b>InchiKey:</b>	BBGKDYHZQOSNMU-UHFFFAOYSA-N
<b>Formula:</b>	C20H36O6
<b>SMILES:</b>	C1CCC2OCCOCCOC3CCCCC3OCCOCCOC2C1
<b>Mol. weight [g/mol]:</b>	372.50
<b>CAS:</b>	16069-36-6

## Physical Properties

Property code	Value	Unit	Source
gf	-430.36	kJ/mol	Joback Method
hf	-1154.79	kJ/mol	Joback Method
hfus	55.21	kJ/mol	Joback Method
hvap	89.53	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.722		Crippen Method
mcvol	295.300	ml/mol	McGowan Method
pc	1721.73	kPa	Joback Method
tb	906.84	K	Joback Method
tc	1176.76	K	Joback Method
tf	464.32	K	Joback Method
vc	1.016	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1102.10	J/molxK	906.84	Joback Method
cpg	1174.82	J/molxK	1131.77	Joback Method
cpg	1168.35	J/molxK	1086.79	Joback Method
cpg	1157.81	J/molxK	1041.80	Joback Method
cpg	1143.23	J/molxK	996.81	Joback Method
cpg	1124.64	J/molxK	951.83	Joback Method
cpg	1177.19	J/molxK	1176.76	Joback Method
dvisc	0.0000027	Paxs	906.84	Joback Method
dvisc	0.0000046	Paxs	833.09	Joback Method
dvisc	0.0000086	Paxs	759.33	Joback Method
dvisc	0.0000183	Paxs	685.58	Joback Method
dvisc	0.0000473	Paxs	611.83	Joback Method
dvisc	0.0001581	Paxs	538.07	Joback Method
dvisc	0.0007755	Paxs	464.32	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C16069366&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16069366&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient

<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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