

# 1,2,3,4,5,6-Hexahydro[2.2]paracyclophane

<b>Inchi:</b>	InChI=1S/C16H24/c1-2-14-4-3-13(1)9-10-15-5-7-16(8-6-15)12-11-14/h1,4,15-16H,2-3,5-
<b>InchiKey:</b>	JTUHZHSIIGRXJX-UHFFFAOYSA-N
<b>Formula:</b>	C16H24
<b>SMILES:</b>	C1=C2CC=C(C1)CCC1CCC(CC2)CC1
<b>Mol. weight [g/mol]:</b>	216.36
<b>CAS:</b>	90817-44-0

## Physical Properties

Property code	Value	Unit	Source
gf	229.76	kJ/mol	Joback Method
hf	-85.33	kJ/mol	Joback Method
hfus	17.50	kJ/mol	Joback Method
hvap	54.37	kJ/mol	Joback Method
ie	8.00	eV	NIST Webbook
ie	8.30	eV	NIST Webbook
log10ws	-5.43		Crippen Method
logp	5.013		Crippen Method
mcvol	195.120	ml/mol	McGowan Method
pc	2237.64	kPa	Joback Method
tb	628.54	K	Joback Method
tc	874.46	K	Joback Method
tf	330.06	K	Joback Method
vc	0.720	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.76	J/molxK	628.54	Joback Method
cpg	574.45	J/molxK	669.53	Joback Method
cpg	598.25	J/molxK	710.51	Joback Method
cpg	620.24	J/molxK	751.50	Joback Method
cpg	640.54	J/molxK	792.49	Joback Method
cpg	659.25	J/molxK	833.47	Joback Method
cpg	676.48	J/molxK	874.46	Joback Method

dvisc	0.0034075	Paxs	330.06	Joback Method
dvisc	0.0017241	Paxs	379.81	Joback Method
dvisc	0.0010215	Paxs	429.55	Joback Method
dvisc	0.0006747	Paxs	479.30	Joback Method
dvisc	0.0004817	Paxs	529.05	Joback Method
dvisc	0.0003645	Paxs	578.79	Joback Method
dvisc	0.0002882	Paxs	628.54	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C90817440&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90817440&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>
<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>

## 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>ie:</b>	Ionization energy
<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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