

# Hexamethyltetracyclo[2.2.0(2,6).0(3,5)]hexane

<b>Inchi:</b>	InChI=1S/C12H18/c1-7-8(2)9(7,3)12(6)10(7,4)11(8,12)5/h1-6H3
<b>InchiKey:</b>	VOPARGKYDVBSNG-UHFFFAOYSA-N
<b>Formula:</b>	C12H18
<b>SMILES:</b>	CC12C3(C)C1(C)C1(C)C2(C)C31C
<b>Mol. weight [g/mol]:</b>	162.27
<b>CAS:</b>	14551-30-5

## Physical Properties

Property code	Value	Unit	Source
gf	317.40	kJ/mol	Joback Method
hf	87.91	kJ/mol	Joback Method
hfus	-3.67	kJ/mol	Joback Method
hvap	33.40	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	3.079		Crippen Method
mcvol	136.500	ml/mol	McGowan Method
pc	3100.18	kPa	Joback Method
tb	467.40	K	Joback Method
tc	689.48	K	Joback Method
tf	452.80	K	Joback Method
vc	0.570	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.77	J/molxK	467.40	Joback Method
cpg	374.16	J/molxK	504.41	Joback Method
cpg	389.32	J/molxK	541.43	Joback Method
cpg	401.98	J/molxK	578.44	Joback Method
cpg	412.89	J/molxK	615.45	Joback Method
cpg	422.79	J/molxK	652.47	Joback Method
cpg	432.42	J/molxK	689.48	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C14551305&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14551305&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>mccvol:</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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