

# Hexacyclopropylethane

**Inchi:** InChI=1S/C20H30/c1-2-13(1)19(14-3-4-14,15-5-6-15)20(16-7-8-16,17-9-10-17)18-11-12-  
**InchiKey:** SKEXUOOOMGGNIA-UHFFFAOYSA-N  
**Formula:** C20H30  
**SMILES:** C1CC1C(C1CC1)(C1CC1)C(C1CC1)(C1CC1)C1CC1  
**Mol. weight [g/mol]:** 270.45  
**CAS:** 26902-55-6

## Physical Properties

Property code	Value	Unit	Source
gf	487.70	kJ/mol	Joback Method
hf	466.50	kJ/mol	NIST Webbook
hfs	357.50 ± 3.90	kJ/mol	NIST Webbook
hfus	21.54	kJ/mol	Joback Method
hsub	109.00	kJ/mol	NIST Webbook
hsub	109.00 ± 2.00	kJ/mol	NIST Webbook
hvap	85.80 ± 0.20	kJ/mol	NIST Webbook
log10ws	-5.63		Crippen Method
logp	5.419		Crippen Method
mcvol	227.500	ml/mol	McGowan Method
pc	1857.91	kPa	Joback Method
tb	690.98	K	Joback Method
tc	932.89	K	Joback Method
tf	427.64	K	Joback Method
vc	0.875	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	765.12	J/mol×K	690.98	Joback Method
cpg	791.16	J/mol×K	731.30	Joback Method
cpg	815.23	J/mol×K	771.62	Joback Method
cpg	837.69	J/mol×K	811.94	Joback Method
cpg	858.94	J/mol×K	852.26	Joback Method
cpg	879.35	J/mol×K	892.57	Joback Method

cpg	899.30	J/mol×K	932.89	Joback Method
cps	396.10	J/mol×K	298.15	NIST Webbook
dvisc	0.0175841	Paxs	427.64	Joback Method
dvisc	0.0192687	Paxs	471.53	Joback Method
dvisc	0.0207883	Paxs	515.42	Joback Method
dvisc	0.0221621	Paxs	559.31	Joback Method
dvisc	0.0234076	Paxs	603.20	Joback Method
dvisc	0.0245405	Paxs	647.09	Joback Method
dvisc	0.0255742	Paxs	690.98	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C26902556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26902556&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase 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>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsub:</b>	Enthalpy of sublimation 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

Latest version available from:

<https://www.chemeo.com/cid/47-169-3/Hexacyclopropylethane.pdf>

Generated by Cheméo on 2024-04-25 05:15:21.122271386 +0000 UTC m=+16311370.042848701.

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