

# Perhydrophenanthrene, 1,4bB,8,8,10aB-pentamethyl

Inchi:	InChI=1S/C19H34/c1-14-8-6-9-16-18(14,4)13-10-15-17(2,3)11-7-12-19(15,16)5/h14-16H
InchiKey:	JAQCKRGOHDLTRL-WFZCBACDSA-N
Formula:	C19H34
SMILES:	CC1CCCC2C1(C)CCC1C(C)(C)CCCC12C
Mol. weight [g/mol]:	262.47

## Physical Properties

Property code	Value	Unit	Source
gf	191.25	kJ/mol	Joback Method
hf	-263.19	kJ/mol	Joback Method
hfus	13.19	kJ/mol	Joback Method
hvap	54.11	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	6.055		Crippen Method
mcvol	245.990	ml/mol	McGowan Method
pc	1611.58	kPa	Joback Method
rinsol	1915.00		NIST Webbook
tb	662.40	K	Joback Method
tc	898.99	K	Joback Method
tf	399.09	K	Joback Method
vc	0.921	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	752.38	J/molxK	662.40	Joback Method
cpg	781.24	J/molxK	701.83	Joback Method
cpg	808.84	J/molxK	741.26	Joback Method
cpg	835.64	J/molxK	780.69	Joback Method
cpg	862.05	J/molxK	820.12	Joback Method
cpg	888.51	J/molxK	859.55	Joback Method
cpg	915.45	J/molxK	898.99	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R556653&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R556653&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>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>rinpola:</b>	Non-polar retention indices
<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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