

# 1H-Indene, 5-butyl-6-hexyloctahydro-

<b>Other names:</b>	Bicyclo[4.3.0]nonane, 3-butyl-4-hexyl-3-butyl-4-hexylbicyclo[4.3.0]nonane
<b>Inchi:</b>	InChI=1S/C19H36/c1-3-5-7-8-11-17-15-19-13-9-12-18(19)14-16(17)10-6-4-2/h16-19H,3-
<b>InchiKey:</b>	AZGPNRBWIVZVPD-UHFFFAOYSA-N
<b>Formula:</b>	C19H36
<b>SMILES:</b>	CCCCCCC1CC2CCCC2CC1CCCC
<b>Mol. weight [g/mol]:</b>	264.49
<b>CAS:</b>	55044-36-5

## Physical Properties

Property code	Value	Unit	Source
gf	178.88	kJ/mol	Joback Method
hf	-349.05	kJ/mol	Joback Method
hfus	37.08	kJ/mol	Joback Method
hvap	57.61	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	6.590		Crippen Method
mcvol	256.850	ml/mol	McGowan Method
pc	1300.47	kPa	Joback Method
tb	651.07	K	Joback Method
tc	840.02	K	Joback Method
tf	320.73	K	Joback Method
vc	0.988	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.61	J/mol×K	651.07	Joback Method
cpg	792.33	J/mol×K	682.56	Joback Method
cpg	815.75	J/mol×K	714.05	Joback Method
cpg	837.93	J/mol×K	745.54	Joback Method
cpg	858.92	J/mol×K	777.03	Joback Method
cpg	878.76	J/mol×K	808.53	Joback Method
cpg	897.51	J/mol×K	840.02	Joback Method

dvisc	0.0028523	Paxs	320.73	Joback Method
dvisc	0.0016392	Paxs	375.79	Joback Method
dvisc	0.0010854	Paxs	430.84	Joback Method
dvisc	0.0007890	Paxs	485.90	Joback Method
dvisc	0.0006120	Paxs	540.96	Joback Method
dvisc	0.0004976	Paxs	596.01	Joback Method
dvisc	0.0004189	Paxs	651.07	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=C55044365&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55044365&amp;Units=SI</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</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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