

# Naphthalene,1,2,3,4,4a,5,6,8a-octahydro-4a-methy

<b>Inchi:</b>	InChI=1S/C11H18/c1-11-8-4-2-6-10(11)7-3-5-9-11/h2,6,10H,3-5,7-9H2,1H3/t10-,11+/m0
<b>InchiKey:</b>	RKPODBOKSGTKIR-WDEREUQCSA-N
<b>Formula:</b>	C11H18
<b>SMILES:</b>	CC12CCC=CC1CCCC2
<b>Mol. weight [g/mol]:</b>	150.26
<b>CAS:</b>	65698-42-2

## Physical Properties

Property code	Value	Unit	Source
gf	139.31	kJ/mol	Joback Method
hf	-76.39	kJ/mol	Joback Method
hfus	7.04	kJ/mol	Joback Method
hvap	39.73	kJ/mol	Joback Method
ie	8.92 ± 0.02	eV	NIST Webbook
log10ws	-3.59		Crippen Method
logp	3.533		Crippen Method
mcvol	139.830	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
tb	481.04	K	Joback Method
tc	711.88	K	Joback Method
tf	260.19	K	Joback Method
vc	0.517	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.95	J/mol×K	481.04	Joback Method
cpg	340.05	J/mol×K	519.51	Joback Method
cpg	360.46	J/mol×K	557.99	Joback Method
cpg	379.37	J/mol×K	596.46	Joback Method
cpg	396.93	J/mol×K	634.93	Joback Method
cpg	413.32	J/mol×K	673.41	Joback Method
cpg	428.71	J/mol×K	711.88	Joback Method

# Sources

<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=C65698422&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C65698422&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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