

# 2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahydro-4,8a-dimethyl-6-(1-methyle

Other names:	3,5,6,7,8,8a-Hexahydro-4,8a-dimethyl-6-(1-methylethenyl)-2(1H)naphthalenone 3,5,6,7,8,8«alpha»-Hexahydro-4,8«alpha»-dimethyl-6-(1-methylethenyl)-2(1H)-naphthalenone
Inchi:	InChI=1S/C15H22O/c1-10(2)12-5-6-15(4)9-13(16)7-11(3)14(15)8-12/h12H,1,5-9H2,2-4H
InchiKey:	QCKGKVKLMOUFSZ-UHFFFAOYSA-N
Formula:	C15H22O
SMILES:	C=C(C)C1CCC2(C)CC(=O)CC(C)=C2C1
Mol. weight [g/mol]:	218.33

## Physical Properties

Property code	Value	Unit	Source
gf	110.43	kJ/mol	Joback Method
hf	-203.95	kJ/mol	Joback Method
hfus	13.54	kJ/mol	Joback Method
hvap	53.62	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	4.048		Crippen Method
mcvol	193.460	ml/mol	McGowan Method
pc	2133.46	kPa	Joback Method
rinpol	1790.00		NIST Webbook
rinpol	1772.70		NIST Webbook
rinpol	1790.00		NIST Webbook
rinpol	1772.70		NIST Webbook
tb	646.90	K	Joback Method
tc	885.57	K	Joback Method
tf	382.81	K	Joback Method
vc	0.731	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.47	J/molxK	646.90	Joback Method
cpg	560.03	J/molxK	686.68	Joback Method
cpg	580.39	J/molxK	726.46	Joback Method
cpg	599.70	J/molxK	766.24	Joback Method

cpg	618.11	J/mol×K	806.02	Joback Method
cpg	635.78	J/mol×K	845.79	Joback Method
cpg	652.86	J/mol×K	885.57	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=U188665&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U188665&amp;Units=SI</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>hvp:</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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