

# 2(1H)-naphthalenone, 3,4-dihydro-5-methoxy-

<b>Other names:</b>	5-methoxy-2-tetralone
<b>Inchi:</b>	InChI=1S/C11H12O2/c1-13-11-4-2-3-8-7-9(12)5-6-10(8)11/h2-4H,5-7H2,1H3
<b>InchiKey:</b>	MDAIXRRTLVEOU-UHFFFAOYSA-N
<b>Formula:</b>	C11H12O2
<b>SMILES:</b>	<chem>COc1cccc2c1CCC(=O)C2</chem>
<b>Mol. weight [g/mol]:</b>	176.21
<b>CAS:</b>	32940-15-1

## Physical Properties

Property code	Value	Unit	Source
gf	-36.34	kJ/mol	Joback Method
hf	-239.72	kJ/mol	Joback Method
hfus	13.17	kJ/mol	Joback Method
hvap	50.73	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	1.753		Crippen Method
mcvol	138.670	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
tb	593.64	K	Joback Method
tc	835.26	K	Joback Method
tf	374.30	K	Joback Method
vc	0.518	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.90	J/molxK	593.64	Joback Method
cpg	354.65	J/molxK	633.91	Joback Method
cpg	369.43	J/molxK	674.18	Joback Method
cpg	383.26	J/molxK	714.45	Joback Method
cpg	396.14	J/molxK	754.72	Joback Method
cpg	408.08	J/molxK	794.99	Joback Method
cpg	419.09	J/molxK	835.26	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C32940151&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C32940151&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>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>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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