

# 2(1H)-Naphthalenone, 1-methyl

<b>Inchi:</b>	InChI=1S/C11H10O/c1-8-10-5-3-2-4-9(10)6-7-11(8)12/h2-8H,1H3
<b>InchiKey:</b>	KBYAXHYSWWSO-UHFFFAOYSA-N
<b>Formula:</b>	C11H10O
<b>SMILES:</b>	CC1C(=O)C=Cc2ccccc21
<b>Mol. weight [g/mol]:</b>	158.20

## Physical Properties

Property code	Value	Unit	Source
gf	100.54	kJ/mol	Joback Method
hf	-58.59	kJ/mol	Joback Method
hfus	14.66	kJ/mol	Joback Method
hvap	47.64	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.386		Crippen Method
mcvol	128.500	ml/mol	McGowan Method
pc	3333.53	kPa	Joback Method
rinqol	1479.00		NIST Webbook
tb	560.73	K	Joback Method
tc	807.61	K	Joback Method
tf	336.07	K	Joback Method
vc	0.485	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	297.03	J/molxK	560.73	Joback Method
cpg	312.64	J/molxK	601.88	Joback Method
cpg	327.21	J/molxK	643.02	Joback Method
cpg	340.76	J/molxK	684.17	Joback Method
cpg	353.33	J/molxK	725.32	Joback Method
cpg	364.95	J/molxK	766.46	Joback Method
cpg	375.66	J/molxK	807.61	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=R71822&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R71822&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>hvac:</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>mccvol:</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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