

# 2-Naphthol, 3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydro-

Inchi:	InChI=1S/C15H22O/c1-10-8-11-12(9-13(10)16)15(4,5)7-6-14(11,2)3/h8-9,16H,6-7H2,1-5
InchiKey:	DKYWLVQIIIGFIB-UHFFFAOYSA-N
Formula:	C15H22O
SMILES:	<chem>Cc1cc2c(cc1O)C(C)(C)CCC2(C)C</chem>
Mol. weight [g/mol]:	218.33
CAS:	22825-14-5

## Physical Properties

Property code	Value	Unit	Source
gf	43.91	kJ/mol	Joback Method
hf	-239.87	kJ/mol	Joback Method
hfus	18.16	kJ/mol	Joback Method
hvap	63.07	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	4.050		Crippen Method
mcvol	193.460	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
tb	666.68	K	Joback Method
tc	907.03	K	Joback Method
tf	479.97	K	Joback Method
vc	0.677	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	539.35	J/mol×K	666.68	Joback Method
cpg	557.47	J/mol×K	706.74	Joback Method
cpg	574.97	J/mol×K	746.80	Joback Method
cpg	592.20	J/mol×K	786.86	Joback Method
cpg	609.51	J/mol×K	826.92	Joback Method
cpg	627.26	J/mol×K	866.98	Joback Method
cpg	645.81	J/mol×K	907.03	Joback Method

# Sources

<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=C22825145&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22825145&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>
<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>

# 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>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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