

# 1-Hydroxy-2-(n-n-amyI) naphthamide

<b>Inchi:</b>	InChI=1S/C16H19NO2/c1-2-3-6-11-17-16(19)14-10-9-12-7-4-5-8-13(12)15(14)18/h4-5,7
<b>InchiKey:</b>	SXMOTVHITGZJHI-UHFFFAOYSA-N
<b>Formula:</b>	C16H19NO2
<b>SMILES:</b>	CCCCCNC(=O)c1ccc2ccccc2c1O
<b>Mol. weight [g/mol]:</b>	257.33
<b>CAS:</b>	101287-05-2

## Physical Properties

Property code	Value	Unit	Source
gf	99.12	kJ/mol	Joback Method
hf	-193.86	kJ/mol	Joback Method
hfus	40.35	kJ/mol	Joback Method
hvap	81.98	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	3.465		Crippen Method
mcvol	210.500	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
tb	800.78	K	Joback Method
tc	1028.20	K	Joback Method
tf	556.03	K	Joback Method
vc	0.752	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	615.31	J/molxK	800.78	Joback Method
cpg	628.92	J/molxK	838.68	Joback Method
cpg	641.85	J/molxK	876.59	Joback Method
cpg	654.22	J/molxK	914.49	Joback Method
cpg	666.17	J/molxK	952.39	Joback Method
cpg	677.81	J/molxK	990.29	Joback Method
cpg	689.29	J/molxK	1028.20	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C101287052&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C101287052&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>mccvol:</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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