

# 2-Naphthalenecarboxylic acid, 3-hydroxy-, hydrazide

Other names:

2-Naphthoic acid, 3-hydroxy-, hydrazide  
2-Hydroxy-3-naphthoic acid hydrazide  
2-Hydroxy-3-naphthoylhydrazine  
3-Hydroxy-2-naphthoic acid hydrazide  
3-Hydroxy-2-naphthoylhydrazine  
3-Hydroxy-2-naphthylhydrazide  
3-Hydroxy-2-naphthohydrazide  
NSC 2117  
NSC 49198  
2-Hydroxy-3-naphthoic hydrazide

Inchi:

InChI=1S/C11H10N2O2/c12-13-11(15)9-5-7-3-1-2-4-8(7)6-10(9)14/h1-6,14H,12H2,(H,13)

InchiKey:

FDNAQCWUERCJBK-UHFFFAOYSA-N

Formula:

C11H10N2O2

SMILES:

NNC(=O)c1cc2ccccc2cc1O

Mol. weight [g/mol]:

202.21

CAS:

5341-58-2

## Physical Properties

Property code	Value	Unit	Source
gf	123.47	kJ/mol	Joback Method
hf	-56.87	kJ/mol	Joback Method
hfus	32.59	kJ/mol	Joback Method
hvap	81.50	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	1.149		Crippen Method
mcvol	150.030	ml/mol	McGowan Method
pc	4883.38	kPa	Joback Method
tb	758.91	K	Joback Method
tc	1013.16	K	Joback Method
tf	582.94	K	Joback Method
vc	0.501	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.30	J/mol×K	758.91	Joback Method
cpg	417.33	J/mol×K	801.29	Joback Method
cpg	426.75	J/mol×K	843.66	Joback Method
cpg	435.71	J/mol×K	886.04	Joback Method
cpg	444.38	J/mol×K	928.41	Joback Method
cpg	452.90	J/mol×K	970.79	Joback Method
cpg	461.45	J/mol×K	1013.16	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=C5341582&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5341582&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>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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