

# «beta»-Naphthoylhydrazine

<b>Other names:</b>	2-Naphthhydrazide 2-Naphthalenecarboxylic acid, hydrazide 2-naphthohydrazide
<b>Inchi:</b>	InChI=1S/C11H10N2O/c12-13-11(14)10-6-5-8-3-1-2-4-9(8)7-10/h1-7H,12H2,(H,13,14)
<b>InchiKey:</b>	RARLPRMZJNIQGU-UHFFFAOYSA-N
<b>Formula:</b>	C11H10N2O
<b>SMILES:</b>	<chem>NNC(=O)c1ccc2ccccc2c1</chem>
<b>Mol. weight [g/mol]:</b>	186.21
<b>CAS:</b>	39627-84-4

## Physical Properties

Property code	Value	Unit	Source
gf	278.09	kJ/mol	Joback Method
hf	120.44	kJ/mol	Joback Method
hfus	26.81	kJ/mol	Joback Method
hvap	68.48	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	1.443		Crippen Method
mcvol	144.160	ml/mol	McGowan Method
pc	4005.77	kPa	Joback Method
tb	678.29	K	Joback Method
tc	926.03	K	Joback Method
tf	471.22	K	Joback Method
vc	0.535	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.41	J/molxK	678.29	Joback Method
cpg	378.12	J/molxK	719.58	Joback Method
cpg	388.85	J/molxK	760.87	Joback Method
cpg	398.69	J/molxK	802.16	Joback Method
cpg	407.74	J/molxK	843.45	Joback Method
cpg	416.07	J/molxK	884.74	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=C39627844&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39627844&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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

Latest version available from:

<https://www.cheméo.com/cid/33-307-4/beta-Naphthoylhydrazine.pdf>

Generated by Cheméo on 2024-04-26 04:57:40.851537388 +0000 UTC m=+16396709.772114703.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.