

# Benzenamine, N-hydroxy-

<b>Other names:</b>	Aniline, N-hydroxy- Hydroxylamine, N-phenyl- N-Hydroxyaniline N-Hydroxybenzenamine N-Phenylhydroxylamine NCI-C60093 NSC 223099 Phenylhydroxyamine Phenylhydroxylamine «beta»-Phenylhydroxylamine Â«betaÂ»-Phenylhydroxylamine
<b>Inchi:</b>	InChI=1S/C6H7NO/c8-7-6-4-2-1-3-5-6/h1-5,7-8H
<b>InchiKey:</b>	CKRZKMFTZCFYGB-UHFFFAOYSA-N
<b>Formula:</b>	C6H7NO
<b>SMILES:</b>	ONc1ccccc1
<b>Mol. weight [g/mol]:</b>	109.13
<b>CAS:</b>	100-65-2

## Physical Properties

Property code	Value	Unit	Source
gf	64.62	kJ/mol	Joback Method
hf	-29.40	kJ/mol	Joback Method
hfus	14.52	kJ/mol	Joback Method
hvap	54.34	kJ/mol	Joback Method
log10ws	-0.74		Aqueous Solubility Prediction Method
logp	1.488		Crippen Method
mcvol	87.490	ml/mol	McGowan Method
pc	5422.51	kPa	Joback Method
tb	505.71	K	Joback Method
tc	710.18	K	Joback Method
tf	352.15 ± 2.00	K	NIST Webbook
tf	356.65	K	Aqueous Solubility Prediction Method
vc	0.318	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.75	J/mol×K	505.71	Joback Method
cpg	190.63	J/mol×K	539.79	Joback Method
cpg	198.94	J/mol×K	573.87	Joback Method
cpg	206.73	J/mol×K	607.94	Joback Method
cpg	214.00	J/mol×K	642.02	Joback Method
cpg	220.78	J/mol×K	676.10	Joback Method
cpg	227.11	J/mol×K	710.18	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C100652&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## 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.chemeo.com/cid/10-470-8/Benzenamine-N-hydroxy.pdf>

Generated by Cheméo on 2024-04-20 05:57:38.784081923 +0000 UTC m=+15881907.704659238.

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