

# N-Benzoyl-N-phenylhydroxylamine

<b>Other names:</b>	Benzamide, N-hydroxy-N-phenyl- Benzohydroxamic acid, N-phenyl- N-Benzoyl-N-phenylhydroxamic acid N-Benzoylphenylhydroxylamine N-Hydroxy-N-phenylbenzamide N-Hydroxybenzanilide N-Phenylbenzohydroxamic acid N-Phenylbenzohydroxamic acid NSC 42454
<b>Inchi:</b>	InChI=1S/C13H11NO2/c15-13(11-7-3-1-4-8-11)14(16)12-9-5-2-6-10-12/h1-10,16H
<b>InchiKey:</b>	YLYIXDZITBMCIW-UHFFFAOYSA-N
<b>Formula:</b>	C13H11NO2
<b>SMILES:</b>	O=C(c1ccccc1)N(O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	213.23
<b>CAS:</b>	304-88-1

## Physical Properties

Property code	Value	Unit	Source
gf	128.44	kJ/mol	Joback Method
hf	-35.87	kJ/mol	Joback Method
hfus	26.22	kJ/mol	Joback Method
hvap	74.55	kJ/mol	Joback Method
log10ws	-1.89		Aqueous Solubility Prediction Method
logp	2.723		Crippen Method
mcvol	163.930	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
tb	708.69	K	Joback Method
tc	935.19	K	Joback Method
tf	432.33	K	Joback Method
vc	0.591	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.18	J/mol×K	708.69	Joback Method
cpg	441.05	J/mol×K	746.44	Joback Method
cpg	451.92	J/mol×K	784.19	Joback Method
cpg	461.87	J/mol×K	821.94	Joback Method
cpg	470.98	J/mol×K	859.69	Joback Method
cpg	479.32	J/mol×K	897.44	Joback Method
cpg	486.96	J/mol×K	935.19	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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</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=C304881&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C304881&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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