

# 3-Nitrobenzhydrazide

<b>Other names:</b>	3-Nitrobenzoic acid hydrazide m-Nitrobenzhydrazide Benzoic acid, 3-nitro-, hydrazide m-Nitrobenzoic acid hydrazide m-Nitrobenzoic hydrazide m-Nitrobenzoylhydrazide m-Nitrobenzoylhydrazine Benzoic acid, m-nitro-, hydrazide 3-Nitrobenzoylhydrazine NSC 123864 NSC 3558 3-nitrobenzohydrazide
<b>Inchi:</b>	InChI=1S/C7H7N3O3/c8-9-7(11)5-2-1-3-6(4-5)10(12)13/h1-4H,8H2,(H,9,11)
<b>InchiKey:</b>	NQEWXLVDAVTOHM-UHFFFAOYSA-N
<b>Formula:</b>	C7H7N3O3
<b>SMILES:</b>	<chem>NNC(=O)c1cccc([N+](=O)[O-])c1</chem>
<b>Mol. weight [g/mol]:</b>	181.15
<b>CAS:</b>	618-94-0

## Physical Properties

Property code	Value	Unit	Source
gf	173.31	kJ/mol	Joback Method
hf	1.17	kJ/mol	Joback Method
hfus	30.79	kJ/mol	Joback Method
hvap	74.53	kJ/mol	Joback Method
log10ws	-2.47		Crippen Method
logp	0.198		Crippen Method
mcvol	124.680	ml/mol	McGowan Method
pc	4897.06	kPa	Joback Method
tb	719.63	K	Joback Method
tc	978.77	K	Joback Method
tf	537.05	K	Joback Method
vc	0.471	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.71	J/mol×K	719.63	Joback Method
cpg	330.87	J/mol×K	762.82	Joback Method
cpg	339.15	J/mol×K	806.01	Joback Method
cpg	346.62	J/mol×K	849.20	Joback Method
cpg	353.32	J/mol×K	892.39	Joback Method
cpg	359.30	J/mol×K	935.58	Joback Method
cpg	364.62	J/mol×K	978.77	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C618940&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C618940&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.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>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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