

# Methanimidamide, N,N-dimethyl-N'-(3-nitrophenyl)-

<b>Other names:</b>	Formamidine, N,N-dimethyl-N'-(m-nitrophenyl)- Formamidine, 3,3-dimethyl-1-(3-nitrophenyl) N'-(3-Nitro-phenyl)-N,N-dimethyl-formamidine
<b>Inchi:</b>	InChI=1S/C9H11N3O2/c1-11(2)7-10-8-4-3-5-9(6-8)12(13)14/h3-7H,1-2H3
<b>InchiKey:</b>	LQXZCPNRKDUVET-UHFFFAOYSA-N
<b>Formula:</b>	C9H11N3O2
<b>SMILES:</b>	CN(C)C=Nc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	193.20
<b>CAS:</b>	2103-47-1

## Physical Properties

Property code	Value	Unit	Source
hf	134.96	kJ/mol	Joback Method
hvap	60.51	kJ/mol	Joback Method
ie	7.80 ± 0.10	eV	NIST Webbook
log10ws	-2.17		Crippen Method
logp	1.816		Crippen Method
mcvol	146.990	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
rinpol	1877.00		NIST Webbook
rinpol	1877.00		NIST Webbook
tb	677.94	K	Joback Method
tc	928.14	K	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=C2103471&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2103471&amp;Units=SI</a>
<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>

# Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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