

# Benzenamine, N-[(4-nitrophenyl)methylene]-

<b>Other names:</b>	Aniline, N-(p-nitrobenzylidene)- (p-Nitrobenzylidene)aniline p-Nitrobenzaldehyde anil N-(p-Nitrobenzylidene)aniline 4-Nitrobenzalaniline 4-Nitrobenzylideneaniline N-phenyl 4-nitrobenzaldehyde imine
<b>Inchi:</b>	InChI=1S/C13H10N2O2/c16-15(17)13-8-6-11(7-9-13)10-14-12-4-2-1-3-5-12/h1-10H
<b>InchiKey:</b>	GKSAMSVGROLNRA-UHFFFAOYSA-N
<b>Formula:</b>	C13H10N2O2
<b>SMILES:</b>	O=[N+](=O)[O-]c1ccc(C=Nc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	226.23
<b>CAS:</b>	785-80-8

## Physical Properties

Property code	Value	Unit	Source
hf	221.40	kJ/mol	Joback Method
hsub	126.00 ± 1.30	kJ/mol	NIST Webbook
hvap	69.65	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.345		Crippen Method
mcvol	169.610	ml/mol	McGowan Method
pc	2735.42	kPa	Joback Method
tb	783.70	K	Joback Method
tc	1064.35	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	24.56	kJ/mol	347.20	NIST Webbook

# 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>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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C785808&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C785808&amp;Units=SI</a>

# Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation 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

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