

# 2-Chloro-N,N-dimethyl-4-nitroaniline

<b>Other names:</b>	Benzenamine, 2-chloro-N,N-dimethyl-4-nitro-
<b>Inchi:</b>	InChI=1S/C8H9ClN2O2/c1-10(2)8-4-3-6(11(12)13)5-7(8)9/h3-5H,1-2H3
<b>InchiKey:</b>	OZKAWTHGBGLZKC-UHFFFAOYSA-N
<b>Formula:</b>	C8H9ClN2O2
<b>SMILES:</b>	CN(C)c1ccc([N+](=O)[O-])cc1Cl
<b>Mol. weight [g/mol]:</b>	200.62
<b>CAS:</b>	6213-19-0

## Physical Properties

Property code	Value	Unit	Source
gf	244.03	kJ/mol	Joback Method
hf	46.17	kJ/mol	Joback Method
hfus	28.32	kJ/mol	Joback Method
hvap	60.02	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.314		Crippen Method
mcvol	139.460	ml/mol	McGowan Method
pc	3411.87	kPa	Joback Method
tb	620.79	K	Joback Method
tc	865.65	K	Joback Method
tf	437.38	K	Joback Method
vc	0.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.90	J/mol×K	620.79	Joback Method
cpg	333.52	J/mol×K	661.60	Joback Method
cpg	344.23	J/mol×K	702.41	Joback Method
cpg	354.10	J/mol×K	743.22	Joback Method
cpg	363.17	J/mol×K	784.03	Joback Method
cpg	371.49	J/mol×K	824.84	Joback Method
cpg	379.12	J/mol×K	865.65	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>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C6213190&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6213190&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>h vap:</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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