

# N,N-Bis(2-hydroxyethyl)-m-nitroaniline

<b>Other names:</b>	N,N-di-(2-Hydroxyethyl)-m-nitroaniline Ethanol, 2,2'-((m-nitrophenyl)imino)di- Ethanol, 2,2'-((3-nitrophenyl)imino)bis-
<b>Inchi:</b>	InChI=1S/C10H14N2O4/c13-6-4-11(5-7-14)9-2-1-3-10(8-9)12(15)16/h1-3,8,13-14H,4-7H
<b>InchiKey:</b>	CMFNTWPAEFXJIU-UHFFFAOYSA-N
<b>Formula:</b>	C10H14N2O4
<b>SMILES:</b>	O=[N+]([O-])c1cccc(N(CCO)CCO)c1
<b>Mol. weight [g/mol]:</b>	226.23
<b>CAS:</b>	24812-82-6

## Physical Properties

Property code	Value	Unit	Source
gf	8.79	kJ/mol	Joback Method
hf	-272.36	kJ/mol	Joback Method
hfus	37.87	kJ/mol	Joback Method
hvap	92.78	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	0.386		Crippen Method
mcvol	167.140	ml/mol	McGowan Method
pc	3594.25	kPa	Joback Method
tb	808.50	K	Joback Method
tc	1013.01	K	Joback Method
tf	539.12	K	Joback Method
vc	0.625	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.98	J/molxK	808.50	Joback Method
cpg	500.18	J/molxK	842.58	Joback Method
cpg	508.75	J/molxK	876.67	Joback Method
cpg	516.75	J/molxK	910.75	Joback Method
cpg	524.22	J/molxK	944.84	Joback Method
cpg	531.19	J/molxK	978.92	Joback Method

## Sources

<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=C24812826&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24812826&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>

## 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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