

# Methanimidamide, N-(2,4-dimethylphenyl)-N'-methyl-

<b>Other names:</b>	2,4-Dimethylaniline, N-methylaminomethylene-N'-(2,4-dimethylphenyl)-N-methylformamidine
<b>Inchi:</b>	InChI=1S/C10H14N2/c1-8-4-5-10(9(2)6-8)12-7-11-3/h4-7H,1-3H3,(H,11,12)
<b>InchiKey:</b>	JIOLEGNERQDIP-UHFFFAOYSA-N
<b>Formula:</b>	C10H16N2
<b>SMILES:</b>	CN=CNc1ccc(C)cc1C
<b>Mol. weight [g/mol]:</b>	164.25
<b>CAS:</b>	33089-74-6

## Physical Properties

Property code	Value	Unit	Source
hf	99.55	kJ/mol	Joback Method
hvap	51.20	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.373		Crippen Method
mcvol	143.660	ml/mol	McGowan Method
pc	2579.34	kPa	Joback Method
tb	591.69	K	Joback Method
tc	817.36	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	89.20	kJ/mol	303.00	NIST Webbook

## 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=C33089746&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33089746&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>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>h<sub>vapt</sub>:</b>	Enthalpy of vaporization at a given temperature
<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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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