

# N,N-Dimethyl-N'-(3-methylphenyl)-benzamide

**Inchi:** InChI=1S/C16H18N2/c1-13-8-7-11-15(12-13)17-16(18(2)3)14-9-5-4-6-10-14/h4-12H,1-3H  
**InchiKey:** JIBDIHRKKAVVFI-WUKNDPDISA-N  
**Formula:** C16H18N2  
**SMILES:** Cc1cccc(N=C(c2ccccc2)N(C)C)c1  
**Mol. weight [g/mol]:** 238.33

## Physical Properties

Property code	Value	Unit	Source
hf	227.98	kJ/mol	Joback Method
hvap	61.86	kJ/mol	Joback Method
log10ws	-3.72		Crippen Method
logp	3.635		Crippen Method
mcvol	204.440	ml/mol	McGowan Method
pc	2049.31	kPa	Joback Method
rinpol	1857.00		NIST Webbook
tb	712.82	K	Joback Method
tc	957.80	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R158739&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** 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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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