

# N,N-Dimethyl-N'-propyl-p-chlorobenzamide

**Inchi:** InChI=1S/C12H17ClN2/c1-4-9-14-12(15(2)3)10-5-7-11(13)8-6-10/h5-8H,4,9H2,1-3H3/b1  
**InchiKey:** YBQYARDEHNNHJPY-WYMLVPIESA-N  
**Formula:** C12H17ClN2  
**SMILES:** CCCN=C(c1ccc(Cl)cc1)N(C)C  
**Mol. weight [g/mol]:** 224.73

## Physical Properties

Property code	Value	Unit	Source
hf	58.27	kJ/mol	Joback Method
hvap	55.07	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	3.058		Crippen Method
mcvol	184.080	ml/mol	McGowan Method
pc	2079.33	kPa	Joback Method
rinpol	1687.00		NIST Webbook
tb	632.05	K	Joback Method
tc	853.65	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R159465&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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