

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

**Inchi:** InChI=1S/C14H21ClN2/c1-4-5-6-11-16-14(17(2)3)12-7-9-13(15)10-8-12/h7-10H,4-6,11H  
**InchiKey:** BBEAQLBEWOTHMY-UHFFFAOYSA-N  
**Formula:** C14H21ClN2  
**SMILES:** CCCCCN=C(c1ccc(Cl)cc1)N(C)C  
**Mol. weight [g/mol]:** 252.78

## Physical Properties

Property code	Value	Unit	Source
hf	16.99	kJ/mol	Joback Method
hvap	59.52	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.838		Crippen Method
mcvol	212.260	ml/mol	McGowan Method
pc	1758.02	kPa	Joback Method
rinpol	1778.00		NIST Webbook
tb	677.81	K	Joback Method
tc	892.00	K	Joback Method

## Sources

**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>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R159381&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## 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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