

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

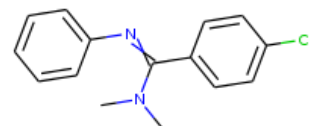
**InChI:** InChI=1S/C15H15ClN2/c1-18(2)15(12-8-10-13(16)11-9-12)17-14-6-4-3-5-7-14/h3-11H,1-2H3

**InChI Key:** PZTRCNWKIDVVPO-UHFFFAOYSA-N

**Formula:** C<sub>15</sub>H<sub>15</sub>ClN<sub>2</sub>

**SMILES:** CN(C)C(=Nc1ccccc1)c1ccc(Cl)cc1

**Molecular Weight:** 258.75



## Physical Properties

Property	Value	Unit	Source
$\Delta_f H^\circ_{\text{gas}}$	232.88	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	64.02	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	3.980		Crippen Method
$P_c$	2163.33	kPa	Joback Method
$T_{\text{boil}}$	727.37	K	Joback Method
$T_c$	979.92	K	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/C15H15ClN2/c1-18\(2\)15\(12-8-10-13\(16\)11-9-12\)17-14-6-4-3-5-7-14/h3-11H,1-2H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C15H15ClN2/c1-18(2)15(12-8-10-13(16)11-9-12)17-14-6-4-3-5-7-14/h3-11H,1-2H3)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

$\Delta_f H^\circ_{\text{gas}}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{\text{vap}} H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).

$\log P_{\text{oct/wat}}$ : Octanol/Water partition coefficient .

$P_c$ : Critical Pressure (kPa).

$T_{\text{boil}}$ : Normal Boiling Point Temperature (K).

$T_c$ : Critical Temperature (K).

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