

# Benzamide, 2-chloro-N-(3-methylbutyl)-

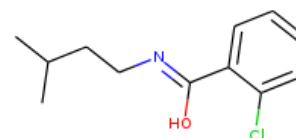
**InChI:** InChI=1S/C12H16ClNO/c1-9(2)7-8-14-12(15)10-5-3-4-6-11(10)13/h3-6,9H,7-8H2,1-2H3,(H,14,15)

**InChI Key:** PGNJNTVXQORETO-UHFFFAOYSA-N

**Formula:** C<sub>12</sub>H<sub>16</sub>ClNO

**SMILES:** CC(C)CCN=C(O)c1cccc1Cl

**Molecular Weight:** 225.71



## Physical Properties

Property	Value	Unit	Source
$\Delta_f H^\circ_{\text{gas}}$	-166.77	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	69.31	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	3.69		Crippen Method
$P_c$	2287.14	kPa	Joback Method
$T_{\text{boil}}$	711.35	K	Joback Method
$T_c$	924.12	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/C12H16ClNO/c1-9\(2\)7-8-14-12\(15\)10-5-3-4-6-11\(10\)13/h3-6,9H,7-8H2,1-2H3,\(H,14,15\)](http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H16ClNO/c1-9(2)7-8-14-12(15)10-5-3-4-6-11(10)13/h3-6,9H,7-8H2,1-2H3,(H,14,15))

**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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