



**>>Entry Name: 2-Chloro-4-methylaniline**

**Synonym(s):** 2-Chloro-*p*-toluidine. 4-Amino-3-chlorotoluene. 2-Chloro-4-methylbenzenamine

**CAS Registry Number:** 615-65-6

**Molecular Formula:** C<sub>7</sub>H<sub>8</sub>ClN

**Molecular Weight:** 141.6

**Accurate Mass:** 141.034526

**Percentage Composition:** C 59.38%; H 5.69%; Cl 25.04%; N 9.89%

**Physical Description:** Liq.

**Melting Point:** Mp 7°

**Boiling Point:** Bp<sub>732</sub> 219°

**Density:** d<sup>20</sup> 1.151

**Hazard & Toxicity:** Severe eye and skin irritant. LD<sub>50</sub> (rat, orl) 367 mg/kg

**Aldrich:** 12507-5

**Fluka:** 25038

**>>Derivative:** Nitrate

**Melting Point:** Mp 189 dec.°

**>>Derivative:** *N*-Ac

**Synonym(s):** 2-Chloro-4-methylacetanilide. 4-Acetamido-3-chlorotoluene

**CAS Registry Number:** 18931-78-7

**Molecular Formula:** C<sub>9</sub>H<sub>10</sub>ClNO

**Molecular Weight:** 183.637

**Accurate Mass:** 183.045091

**Percentage Composition:** C 58.87%; H 5.49%; Cl 19.31%; N 7.63%; O 8.71%

**Physical Description:** Plates

**Melting Point:** Mp 118°

**>>Derivative:** *N*-Benzoyl

**CAS Registry Number:** 77791-06-1

**Molecular Formula:** C<sub>14</sub>H<sub>12</sub>ClNO

**Molecular Weight:** 245.708

**Accurate Mass:** 245.060741

**Percentage Composition:** C 68.44%; H 4.92%; Cl 14.43%; N 5.70%; O 6.51%

**Melting Point:** Mp 137-139°

**References:**

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 1218C, (*ir*)

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 503A, (*nmr*)

*Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 1138D, (*ir*)

Chattaway, F.D. *et al.*, *J.C.S.*, 1901, **79**, 461, (*synth*)

Fieser, L.F., *J.A.C.S.*, 1940, **62**, 2103, (*synth*)

Dias, M. *et al.*, *Acta Chem. Scand.*, 1998, **52**, 549-554, (*N-Ac*)

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