



>>Entry Name: 2-Chloro-5-methylaniline

Synonym(s): 2-Chloro-5-methylbenzenamine, 9Cl. 6-Chloro-*m*-toluidine. 3-Amino-4-chlorotoluene

CAS Registry Number: 95-81-8

Molecular Formula: C₇H₈ClN

Molecular Weight: 141.6

Accurate Mass: 141.034526

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

Melting Point: Mp 29-30°

Boiling Point: Bp 230°

Hazard & Toxicity: Reduction of 1-Chloro-4-methyl-2-nitrobenzene with NH₂NH₂/Pd/C causes a violent explosion

Aldrich: 22511-8

>>Derivative: N-Ac

Synonym(s): 2-Chloro-5-methylacetanilide. 3-Acetamido-4-chlorotoluene

CAS Registry Number: 18931-83-4

Molecular Formula: C₉H₁₀ClNO

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: Silky needles

Melting Point: Mp 93-94°

References:

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

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

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1139A, (*ir*)

Goldschmidt, H. *et al.*, *Ber.*, 1886, **19**, 2438

Rondestvedt, C.S. *et al.*, *Chem. Eng. News*, 1977, **55**, 38; *Synthesis*, 1977, 851, (*haz*)

Shashidhar, M.A., *Indian J. Phys.*, 1978, **52**, 125, (*uv*)