



>>Entry Name: 5-Chloro-2-methyl-4-nitroaniline

Synonym(s): 5-Chloro-2-methyl-4-nitrobenzenamine, 9Cl. 5-Chloro-4-nitro-*o*-toluidine

CAS Registry Number: 13852-51-2

Molecular Formula: C<sub>7</sub>H<sub>7</sub>ClN<sub>2</sub>O<sub>2</sub>

Molecular Weight: 186.597

Accurate Mass: 186.019605

Percentage Composition: C 45.06%; H 3.78%; Cl 19.00%; N 15.01%; O 17.15%

Physical Description: Yellow cryst. (C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 163-164°

Aldrich: 20120-0

>>Derivative: *N*-Ac

Molecular Formula: C<sub>9</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>3</sub>

Molecular Weight: 228.634

Accurate Mass: 228.03017

Percentage Composition: C 47.28%; H 3.97%; Cl 15.51%; N 12.25%; O 20.99%

Physical Description: Prisms (C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 181-182°

#### References:

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 771B, (*nmr*)

*Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **1**, 1380C, (*ir*)

Kenner, J. *et al.*, *J.C.S.*, 1925, **127**, 2346

Godfrey, K.E. *et al.*, *J.C.S.(C)*, 1967, 400

Tere, J., *CA*, 1977, **86**, 155286x