



>>Entry Name: 2-Chloro-5-nitrobenzaldehyde, 9Cl, 8Cl

CAS Registry Number: 6361-21-3

Molecular Formula: C₇H₄ClNO₃

Molecular Weight: 185.566

Accurate Mass: 184.987971

Percentage Composition: C 45.31%; H 2.17%; Cl 19.11%; N 7.55%; O 25.87%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 80°

Aldrich: 13903-3

Fluka: 25404

>>Derivative: α-Oxime

Molecular Formula: C₇H₅ClN₂O₃

Molecular Weight: 200.581

Accurate Mass: 199.99887

Percentage Composition: C 41.92%; H 2.51%; Cl 17.68%; N 13.97%; O 23.93%

Melting Point: Mp 147-148°

>>Derivative: β-Oxime

Physical Description: Pale-yellow needles (C₆H₆)

Melting Point: Mp 176°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Orange cryst.

Melting Point: Mp 280 dec.°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 961A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 123A, (ir)

Erdmann, H., *Annalen*, 1892, **272**, 141, (synth)

Hodgson, H.H. *et al.*, *J.C.S.*, 1926, 147, (synth)

Black, D.St.C. *et al.*, *Aust. J. Chem.*, 1970, **23**, 2039, (synth, ir, pmr, ms)