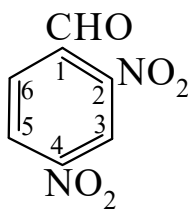




>>Entry Name: 2,4-Dinitrobenzaldehyde, 9CI, 8CI



CAS Registry Number: 528-75-6

Related CAS Registry Numbers(s): 21013-95-6 22032-04-8

Molecular Formula: C₇H₄N₂O₅

Molecular Weight: 196.119

Accurate Mass: 196.012023

Percentage Composition: C 42.87%; H 2.06%; N 14.28%; O 40.79%

Use/Importance: Used in photography and for characterising primary amines as Schiff's bases

Physical Description: Pale-yellow cryst. or plates (EtOH)

Melting Point: Mp 72°

Boiling Point: Bp₁₅ 190-210° (lit. gives a pressure range)

Hazard & Toxicity: Mutagenic props.

Aldrich: D19360-7

>>Derivative: Oxime

CAS Registry Number: 3236-33-7

Molecular Formula: C₇H₅N₃O₅

Molecular Weight: 211.134

Accurate Mass: 211.022922

Percentage Composition: C 39.82%; H 2.39%; N 19.90%; O 37.89%

Physical Description: Needles or plates (EtOH aq.)

Melting Point: Mp 127-128°. Mp 171-172°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 258°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 124B, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 121B, (*nmr*)

Sachs, F. *et al.*, *Ber.*, 1902, **35**, 1224, (*synth*)

Org. Synth., Coll. Vol., 2, 1943, 223, (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 318

Wolschann, P. *et al.*, *Org. Magn. Reson.*, 1977, **9**, 1, (*pmr*)

Katritzky, A.R. *et al.*, *Acta Chim. Acad. Sci. Hung.*, 1981, **107**, 315, (*synth*)

Mori, M. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 4556, (*tox*)

Yinon, J., *Org. Mass Spectrom.*, 1992, **27**, 689, (*ms*)