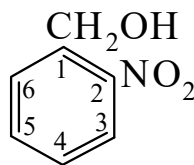




>>Entry Name: 2-Nitrobenzyl alcohol

Synonym(s): 2-Nitrobenzenemethanol, 9Cl. α -Hydroxy-2-nitrotoluene. 1-Hydroxymethyl-2-nitrobenzene



CAS Registry Number: 612-25-9

Molecular Formula: $C_7H_7NO_3$

Molecular Weight: 153.137

Accurate Mass: 153.042594

Percentage Composition: C 54.90%; H 4.61%; N 9.15%; O 31.34%

Use/Importance: Used in protection of aldehydes and ketones

Physical Description: Needles (H_2O)

Melting Point: Mp 74°

Boiling Point: Bp 270° . Bp₂₀ 168°

Hazard & Toxicity: Exothermic dec. at 201°

Aldrich: N1280-5

Fluka: 73140

>>Derivative: O-Benzoyl

Molecular Formula: $C_{14}H_{11}NO_4$

Molecular Weight: 257.245

Accurate Mass: 257.068809

Percentage Composition: C 65.37%; H 4.31%; N 5.44%; O 24.88%

Melting Point: Mp $101-102^\circ$

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **2**, 683A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1332A, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1185A, (ir)

Schenck, F., *Ber.*, 1934, **67**, 1571, (synth)

Schwarz, H., *Org. Mass Spectrom.*, 1977, **12**, 569, (synth)

Le Stanc, Y. *et al.*, *Can. J. Chem.*, 1985, **63**, 2958, (synth, pmr)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1988, **13**, 199, (use)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, NFM550

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 2591