



>>Entry Name: Benzylhydrazine

Synonym(s): Phenylmethylhydrazine, 9CI

CAS Registry Number: 555-96-4

PhCH₂NHNH₂

Molecular Formula: C₇H₁₀N₂

Molecular Weight: 122.169

Accurate Mass: 122.084398

Percentage Composition: C 68.82%; H 8.25%; N 22.93%

Physical Description: Liq.

Boiling Point: Bp₈ 107°

Other Data: Dec. on heating at atmos. press. to dibenzyl and N₂

>>Derivative: Hydrochloride

CAS Registry Number: 1073-62-7

Physical Description: Leaflets (EtOH)

Melting Point: Mp 111°

pK_a Value: pK_a 6.83 (25°)

Hazard & Toxicity: LD₅₀ (mus, orl) 90 mg/kg

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 20570-96-1

Melting Point: Mp 145 dec.°

Aldrich: B2285-2

Fluka: 13440

Sigma: B8137

>>Derivative: N-Nitroso

Molecular Formula: C₇H₉N₃O

Molecular Weight: 151.168

Accurate Mass: 151.074562

Percentage Composition: C 55.62%; H 6.00%; N 27.80%; O 10.58%

Melting Point: Mp 72°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1258A, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 1067B, (*nmr*)

Biel, J.H. *et al.*, *J.A.C.S.*, 1959, **81**, 2805, (*synth*)

Ohme, R. *et al.*, *Annalen*, 1968, **713**, 74, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, BEQ000; BEQ250; BEQ500