



>>Entry Name: 4-Aminodiphenyl ether

Synonym(s): 4-Phenoxybenzenamine, 9CI. *p*-Phenoxyaniline, 8CI

CAS Registry Number: 139-59-3

Molecular Formula: C₁₂H₁₁NO

Molecular Weight: 185.225

Accurate Mass: 185.084064

Percentage Composition: C 77.81%; H 5.99%; N 7.56%; O 8.64%

Physical Description: Needles (H₂O)

Melting Point: Mp 83-84°

Boiling Point: Bp₁₄ 187-189°

Hazard & Toxicity: Skin and eye irritant. LD₅₀ (rat, orl) 1100 mg/kg

Aldrich: P1510-2

Fluka: 7895

>>Derivative: Hydrochloride

Physical Description: Plates

Melting Point: Mp 225-227 dec.°

>>Derivative: *N*-Ac

CAS Registry Number: 6312-87-4

Molecular Formula: C₁₄H₁₃NO₂

Molecular Weight: 227.262

Accurate Mass: 227.094629

Percentage Composition: C 73.99%; H 5.77%; N 6.16%; O 14.08%

Melting Point: Mp 127°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1248D, (*ir*)

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Ullmann, F. *et al.*, *Annalen*, 1906, **350**, 83

Suter, C.M., *J.A.C.S.*, 1929, **51**, 2581, (*synth*)

Montaudou, G. *et al.*, *Tetrahedron*, 1971, **27**, 2125, (*pmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, PDR500