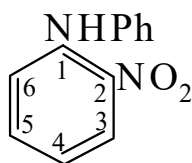




>>Entry Name: 2-Nitrodiphenylamine, 8Cl

Synonym(s): 2-Nitro-*N*-phenylbenzenamine, 9Cl



CAS Registry Number: 119-75-5

Molecular Formula: C₁₂H₁₀N₂O₂

Molecular Weight: 214.223

Accurate Mass: 214.074228

Percentage Composition: C 67.28%; H 4.70%; N 13.08%; O 14.94%

Use/Importance: Used as a 5mM soln. in dil. H₂SO₄ as redox indicator for titrimetric detn.of Fe(II)

Physical Description: Orange plates (EtOH aq.)

Melting Point: Mp 75.5°

Other Data: E° +1.09 V (0.5-2.0M H₂SO₄)

Aldrich: 15717-1

Fluka: 73322

>>Derivative: *N*-Me

CAS Registry Number: 52997-62-3

Molecular Formula: C₁₃H₁₂N₂O₂

Molecular Weight: 228.25

Accurate Mass: 228.089878

Percentage Composition: C 68.41%; H 5.30%; N 12.27%; O 14.02%

Physical Description: Red oil

Boiling Point: Bp₁₅ 205°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 780B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1387A, (*ir*)

Ullmann, F. *et al.*, *Ber.*, 1908, **41**, 1872, (*synth*)

Storrie, F.R., *J.C.S.*, 1931, 2261, (*deriv*)

Gandikota, M. *et al.*, *Anal. Chim. Acta*, 1974, **72**, 163, (*use*)

Sax, N.I., *Dangerous Properties of Industrial Materials, 5th edn.*, Van Nostrand Reinhold, 1979, 859