>>**Entry Name: 4-Nitrodiphenylamine,** 8CI
Synonym(s): 4-Nitro-*N*-phenylbenzenamine, 9CI

CAS Registry Number: 836-30-6

Molecular Formula: $C_{12}H_{10}N_2O_2$
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 EtOH soln. as a redox indicator
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 134°
pKa Value: pK_a^o –2.37 (24°, HCl)
Other Data: E +1.03V
Hazard & Toxicity: Eye irritant

Aldrich: 10357-8

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 780C, *(nmr)*
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1386D, *(ir)*
Ullmann, F. *et al.*, *Ber.*, 1908, **41**, 3744, *(synth)*
Walden, G.H. *et al.*, *Chem. Rev.*, 1935, **16**, 81, *(use, indicator)*
Bishop, E.*, Indicators*, Pergamon, Oxford, 1972, 580, *(use, indicator)*
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, NFY000