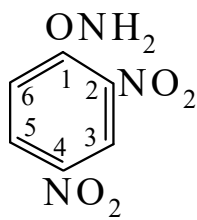




>>Entry Name: *O*-(2,4-Dinitrophenyl)hydroxylamine



CAS Registry Number: 17508-17-7

Molecular Formula: C₆H₅N₃O₅

Molecular Weight: 199.123

Accurate Mass: 199.022922

Percentage Composition: C 36.19%; H 2.53%; N 21.10%; O 40.17%

Use/Importance: Aminating agent used in synth. of nitriles

Physical Description: Pale yellow needles (EtOH)

Melting Point: Mp 112-113°

Hazard & Toxicity: Explosive reaction can occur with KH/THF

Rare Chemicals Library: S5572-8

References:

Sheradsky, T., *J. Het. Chem.*, 1967, **4**, 413-414, (*synth, uv, ir*)

Sheradsky, T. *et al.*, *Tetrahedron*, 1972, **28**, 3833-3843, (*synth, uv*)

Tamura, Y. *et al.*, *J.O.C.*, 1973, **38**, 1239-1241, (*synth, ir, pmr*)

Miller, M.J. *et al.*, *J.O.C.*, 1975, **40**, 126-127, (*use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1977, **6**, 233, (*use*)

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 2143

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DVC700