



>>Entry Name: Sodium ethoxide

Synonym(s): Ethanol sodium salt, 9Cl. Ethyl alcohol sodium salt, 8Cl. Ethoxysodium

CAS Registry Number: 141-52-6

Related CAS Registry Numbers(s): 16331-64-9

NaOEt

Molecular Formula: C₂H₅NaO

Molecular Weight: 68.051

Accurate Mass: 68.023807

Percentage Composition: C 35.30%; H 7.41%; Na 33.78%; O 23.51%

Source/Synthesis: Synth by reaction of Na or Na/Hg with dry EtOH in an inert atm. (N₂ or Ar)

Use/Importance: Commercially available in soln. in denatured EtOH or as solid. Used widely as a catalyst and reagent in org. chem.

Physical Description: Moisture-sensitive white powder

Melting Point: Mp 260 dec.°

Solubility: Sol. EtOH

Other Data: Reacts with H₂O forming EtOH and aq. NaOH

Hazard & Toxicity: Flammable solid, corrosive

Aldrich: 23055-3

Fluka: 71212

Other: Gelest AKS740

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1139B, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 981A, (*nmr*)

Seubold, F.H., *J.O.C.*, 1956, **21**, 156, (*ir*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 1065, (*synth, uses, bibl*)

Blanchard, J.M. *et al.*, *J. Therm. Anal.*, 1976, **9**, 191, (*thermal anal*)

Gold, V. *et al.*, *J.C.S. Perkin 2*, 1982, 1615, (*pmr*)

Sigma-Aldrich Library of Chemical Safety Data, 1988, **2**, 3140A; 3140B, (*haz*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, SGR800