



>>Entry Name: Barium ethoxide

Synonym(s): Ethanol barium salt, 9CI. Barium diethoxide. Diethoxybarium

CAS Registry Number: 2914-19-4

Ba(OEt)₂

Molecular Formula: C₄H₁₀BaO₂

Molecular Weight: 227.449

Accurate Mass: 227.973312

Percentage Composition: C 21.12%; H 4.43%; Ba 60.38%; O 14.07%

Source/Synthesis: Synth. from Ba + EtOH at r.t. under Ar

Use/Importance: Precursor in the synth. of oxide materials

Physical Description: Yellow-brown powder + 4EtOH (EtOH)

Other Data: Anhydr. material darkens in the absence of solv.

References:

Lutz, H.D. *et al.*, *Z. Anorg. Allg. Chem.*, 1968, **356**, 132-139, (*synth, ir, soly*)

Turova, N.J. *et al.*, *Z. Anorg. Allg. Chem.*, 1969, **365**, 100-112, (*soly*)

Bradley, D.C. *et al.*, *Metal Alkoxides*, Academic Press, 1978, (*rev*)

Turova, N.Ya. *et al.*, *Zh. Neorg. Khim.*, 1993, **38**, 1137-1142; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1993, **38**, 1055-1059, (*synth, ir, epr, soly*)

Turevskaya, E.P. *et al.*, *Polyhedron*, 1995, **14**, 1531-1542, (*soly*)