



>>Entry Name: Hypoboric acid, 9CI

Synonym(s): Subboric acid. Diboric acid. Tetrahydroxydiborane(4)

CAS Registry Number: 13675-18-8

(HO)₂B-B(OH)₂

Molecular Formula: B₂H₄O₄

Molecular Weight: 89.651

Accurate Mass: 90.02957

Percentage Composition: B 24.12%; H 4.50%; O 71.39%

Physical Description: Colourless solid. Loses H₂O at 100-110°, substance formed has Mp 290°

Solubility: Sol. H₂O but with sl. H₂ evolution

Other Data: Aq. solns. have reducing props. (e.g. Ag⁽⁺⁾ to Ag)

>>Derivative: O,O',O'',O''' - Tetramethyl

References:

Apple, E.F. *et al.*, *J.A.C.S.*, 1958, **80**, 6155, (*synth*)

Nöth, H. *et al.*, *Chem. Ber.*, 1961, **94**, 509, (*synth*)

McCloskey, A.L. *et al.*, *J.A.C.S.*, 1961, **83**, 4750, (*synth*)

Nikitin, V.S. *et al.*, *CA*, 1963, **59**, 10894, (*ir*)

Mellor *Compr. Treat. Inorg. Theor. Chem.*, 1980, **5**, 336, (*rev, bibl*)