



>>Entry Name: Rubidium borohydride

Synonym(s): Rubidium tetrahydroborate(*III*). Tetrahydroborate(1−) rubidium salt, 8Cl

CAS Registry Number: 20346-99-0

RbBH₄

Molecular Formula: BH₄Rb

Molecular Weight: 100.31

Accurate Mass: 99.952399

Percentage Composition: B 10.78%; H 4.02%; Rb 85.20%

Source/Synthesis: Synth. from NaBH₄ + RbOH in aq. EtOH or from Rb/Hg + BH₃.THF in THF

Physical Description: Colourless cubic cryst.

Solubility: V. sol. H₂O; v. spar. sol. THF

References:

Abrahams, S.C. *et al.*, *J. Chem. Phys.*, 1954, **22**, 434, (*cryst struct*)

Mikheeva, V.I. *et al.*, *Zh. Neorg. Khim.*, 1966, **11**, 1506, (*synth*)

Arkhipov, S.M., *Metody Poluch. Khim. Reakt. Prep.*, 1967, **17**, 61; *CA*, 1968, **69**, 56589, (*synth*)

Volkov, V.V. *et al.*, *Zh. Neorg. Khim.*, 1968, **13**, 659, (*ir*)

Hill, T.G. *et al.*, *Inorg. Chem.*, 1991, **30**, 2952, (*synth, B-11 nmr, ir*)