



>>Entry Name: **Hydrotris(2-propanolato)borate(1-)**, 10Cl, 9Cl

Synonym(s): Hydrotriisopropoxyborate. Triisopropoxyhydroborate. Triisopropoxyborohydride. Triisopropoxyhydridoborate



Molecular Formula: $\text{C}_9\text{H}_{22}\text{BO}_3^{(-)}$

Molecular Weight: 189.082

Accurate Mass: 189.1662

Percentage Composition: C 57.17%; H 11.73%; B 5.72%; O 25.38%

>>**Derivative:** K salt

Synonym(s): Feeble hydride

CAS Registry Number: 42278-67-1

Molecular Formula: $\text{C}_9\text{H}_{22}\text{BKO}_3$

Molecular Weight: 228.18

Accurate Mass: 228.129907

Percentage Composition: C 47.37%; H 9.72%; B 4.74%; K 17.13%; O 21.04%

Use/Importance: Commercially available as THF soln. Catalyst for carbonylation of organoboranes. Mild reducing agent, comparable in props. to NaBH_4 , but sol. in THF

Physical Description: Moisture-sensitive

Solubility: Sol. THF

Hazard & Toxicity: Flash pt. of THF soln. -15°

References:

Brown, C.A. *et al.*, *Chem. Comm.*, 1973, 391, (*synth*)

Brown, H.C., *CA*, 1974, **80**, 37205y

Brown, C.A. *et al.*, *J.A.C.S.*, 1979, **101**, 3964, (*props, use*)

Brown, H.C. *et al.*, *Synthesis*, 1979, 701, (*use*)

Steinmetz, G.R. *et al.*, *J.A.C.S.*, 1981, **103**, 1278, (*use*)