



>>Entry Name: Pentyldihydroxyborane

Synonym(s): Pentyboronic acid, 12Cl, 9Cl. 1-Pentaneboronic acid, 8Cl. Amyldihydroxyborane. Dihydroxypentylborane

CAS Registry Number: 4737-50-2

$\text{H}_3\text{C}(\text{CH}_2)_4\text{B}(\text{OH})_2$

Molecular Formula: $\text{C}_5\text{H}_{13}\text{BO}_2$

Molecular Weight: 115.967

Accurate Mass: 116.10086

Percentage Composition: C 51.79%; H 11.30%; B 9.32%; O 27.59%

Use/Importance: Inhibits cholinesterase, proteinase and lipase

Physical Description: Mod. air-sensitive cryst. (petrol)

Melting Point: Mp 93-94°

References:

Laurent, J.P., *C. R. Hebd. Seances Acad. Sci.*, 1961, **253**, 1812, (*synth, props*)

Niedenzu, K. *et al.*, *J.O.C.*, 1961, **26**, 3037, (*synth*)

Antonov, V.K. *et al.*, *Mol. Biol.*, 1970, **4**, 558

Jarv, J. *et al.*, *Bioorg. Khim.*, 1978, **4**, 1364; *CA*, **90**, 2320m, (*use*)