



>>Entry Name: Dihydroxyoctylborane

Synonym(s): Octylboronic acid, 11Cl. 1-Octaneboronic acid, 8Cl

CAS Registry Number: 28741-08-4

$\text{H}_3\text{C}(\text{CH}_2)_7\text{B}(\text{OH})_2$

Molecular Formula: $\text{C}_8\text{H}_{19}\text{BO}_2$

Molecular Weight: 158.048

Accurate Mass: 158.14781

Percentage Composition: C 60.80%; H 12.12%; B 6.84%; O 20.25%

Use/Importance: Bifunctional reversible inhibitor of many enzyme systems

Physical Description: Solid, somewhat sensitive to air

Melting Point: Mp 79°

References:

Torssell, K., *Acta Chem. Scand.*, 1957, **11**, 404, (*synth*)

Köster, R., *Annalen*, 1958, **618**, 31, (*synth*)

Gerrard, W. *et al.*, *J.C.S.*, 1964, 740

Antonov, V.K., *Mol. Biol.*, 1970, **4**, 558, (*use*)

Jarv, J., *Bioorg. Khim.*, 1978, **4**, 1364, (*use*)

Wiecko, J. *et al.*, *J.A.C.S.*, 1979, **101**, 979, (*ms*)