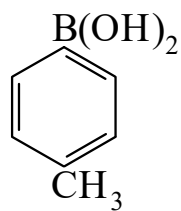




>>Entry Name: Dihydroxy(4-methylphenyl)borane

Synonym(s): (4-Methylphenyl)boronic acid, 12Cl, 9Cl. *p*-Tolueneboronic acid, 8Cl. Dihydroxy-*p*-tolylborane



CAS Registry Number: 5720-05-8

Molecular Formula: C₇H₉BO₂

Molecular Weight: 135.958

Accurate Mass: 136.06956

Percentage Composition: C 61.84%; H 6.67%; B 7.95%; O 23.54%

Use/Importance: Corrosion inhibitor; protecting group for synth.

Physical Description: Cryst. (H₂O or Et₂O)

Melting Point: Mp 259-260°

Solubility: Sol. Et₂O, EtOH, C₆H₆, CDCl₃, hexane

Hazard & Toxicity: Toxic; affects the central nervous system

Aldrich: 39362-2

Fluka: 90010

References:

Bean, F.R. *et al.*, *J.A.C.S.*, 1932, **54**, 4415, (*synth*)

Beachell, H.C. *et al.*, *Inorg. Chem.*, 1964, **3**, 1028, (*nmr*, *pmr*)

Ramsey, B.G., *J. Phys. Chem.*, 1970, **74**, 2464

Pham, H.C. *et al.*, *Agressologie*, 1974, **15**, 131; *CA*, **81**, 86179x, (*use*)

Kemp, D.S. *et al.*, *Tet. Lett.*, 1975, 4629, (*use*)

Bullen, N.P. *et al.*, *J. Organomet. Chem.*, 1980, **195**, 147, (*synth*)