



>>Entry Name: Dihydroxy(3-methylphenyl)borane

Synonym(s): (3-Methylphenyl)boronic acid, 11Cl, 9Cl. *m*-Tolueneboronic acid, 8Cl. Dihydroxy-*m*-tolylborane

CAS Registry Number: 17933-03-8

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%

Physical Description: Cryst. (Et₂O)

Solubility: Sol. Et₂O

Hazard & Toxicity: Toxic

Aldrich: 39361-4

>>Derivative: *O,O*-Di-Me

Synonym(s): *m*-Tolyldimethoxyborane

CAS Registry Number: 40881-44-5

Molecular Formula: C₉H₁₃BO₂

Molecular Weight: 164.011

Accurate Mass: 164.10086

Percentage Composition: C 65.91%; H 7.99%; B 6.59%; O 19.51%

Source/Synthesis: Obt. by methanolysis

Physical Description: Moisture-sensitive cryst.

Boiling Point: Bp₁₀ 85-86°

Solubility: Sol. C₆H₆

Density: d₂₅ 0.985

Refractive Index: n_D²⁵ 1.4926

References:

- Kuivila, H.G. *et al.*, *Can. J. Chem.*, 1963, **41**, 3081, (*props, use*)
Beachell, H.C. *et al.*, *Inorg. Chem.*, 1964, **3**, 1028, (*nmr, pmr*)
Ramsey, B.G., *J. Phys. Chem.*, 1970, **74**, 2464, (*props*)
Thorpe, F.G. *et al.*, *J. Organomet. Chem.*, 1977, **128**, 305, (*synth*)
Kajimoto, O. *et al.*, *J. Phys. Chem.*, 1977, **81**, 1712, (*props*)
Bullen, N.P. *et al.*, *J. Organomet. Chem.*, 1980, **195**, 147, (*synth*)