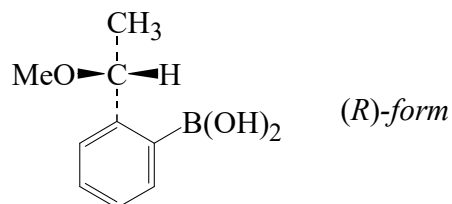




>>Entry Name: Dihydroxy[2-(1-methoxyethyl)phenyl]borane

Synonym(s): [2-(1-Methoxyethyl)phenyl]boronic acid, 13Cl



Molecular Formula: C₉H₁₃BO₃

Molecular Weight: 180.011

Accurate Mass: 180.095775

Percentage Composition: C 60.05%; H 7.28%; B 6.01%; O 26.66%

>>Variant: (*R*)-form

CAS Registry Number: 159752-39-3

Molecular Formula: C₉H₁₃BO₃

Molecular Weight: 180.011

Accurate Mass: 180.095775

Percentage Composition: C 60.05%; H 7.28%; B 6.01%; O 26.66%

Source/Synthesis: Synth. from the (*R*)-form of the corresp. aryl bromide + Triisopropoxyborane [FHV89-F](#), followed by hydrol.

Use/Importance: Nmr shift reagent for enantiomeric assay of diols

Physical Description: Cryst. (hexane)

Melting Point: Mp 72-74°

Optical Rotation: [α]_D +27.2 (c, 4.6 in CH₂Cl₂)

>>Variant: (*S*)-form

CAS Registry Number: 166191-23-7

Molecular Formula: C₉H₁₃BO₃

Molecular Weight: 180.011

Accurate Mass: 180.095775

Percentage Composition: C 60.05%; H 7.28%; B 6.01%; O 26.66%

Source/Synthesis: Synth. from the (*S*)-form of the corresp. aryl bromide + Triisopropoxyborane [FHV89-F](#), followed by hydrol

Physical Description: Cryst.

Optical Rotation: [α]_D -28.7 (c, 2.3 in CH₂Cl₂)

References:

Burgess, K. *et al.*, *Angew. Chem., Int. Ed.*, 1994, **33**, 1182, (*synth, pmr, cmr, use*)

Resnick, S.M. *et al.*, *J.O.C.*, 1995, **60**, 3546, (*synth, pmr, cmr*)

Belley, M.L. *et al.*, *Synlett*, 1996, 92, (*synth*)