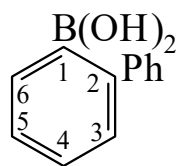




>>Entry Name: **2-Biphenylboronic acid**

Synonym(s): [1,1'-Biphenyl]-2-ylboronic acid, 9Cl. Biphenyl-2-yl-dihydroxyborane. 2-(Dihydroxyboryl)biphenyl



CAS Registry Number: 4688-76-0

Molecular Formula: C₁₂H₁₁BO₂

Molecular Weight: 198.029

Accurate Mass: 198.08521

Percentage Composition: C 72.78%; H 5.60%; B 5.46%; O 16.16%

Source/Synthesis: Synth. from 2-PhC₆H₄MgBr or 2-PhC₆H₄Li + B(OR)₃, followed by hydrol.

Physical Description: Cryst. (C₆H₆ or H₂O)

Melting Point: Mp 129° (122-125°)

Other Data: After melting, resolidifies to the anhydride (Mp 195°)

References:

Yabroff, D.L. *et al.*, *J.A.C.S.*, 1934, **56**, 1850, (*synth*)

Davidson, J.M. *et al.*, *J.C.S.*, 1960, 191, (*synth*)

Bowie, R.A. *et al.*, *J.C.S.(C)*, 1966, 566, (*synth*)

Diorazio, L.J. *et al.*, *Tetrahedron*, 1992, **48**, 8073, (*synth, ir, pmr, ms*)