



>>Entry Name: Dihydroxy(2-phenylethenyl)borane

Synonym(s): (2-Phenylethenyl)boronic acid, 12Cl, 9Cl, 8Cl. β -Styreneboronic acid. 2-Phenyletheneboronic acid. β -Styryldihydroxyborane

CAS Registry Number: 4363-35-3

PhCH=CHB(OH)₂

Molecular Formula: C₈H₉BO₂

Molecular Weight: 147.969

Accurate Mass: 148.06956

Percentage Composition: C 64.94%; H 6.13%; B 7.31%; O 21.63%

Use/Importance: Synthetic intermed.

>>Variant: (E)-form

CAS Registry Number: 6783-05-7

Molecular Formula: C₈H₉BO₂

Molecular Weight: 147.969

Accurate Mass: 148.06956

Percentage Composition: C 64.94%; H 6.13%; B 7.31%; O 21.63%

Physical Description: Solid

Melting Point: Mp 168-169°

>>Variant: (Z)-form

CAS Registry Number: 60806-02-2

Molecular Formula: C₈H₉BO₂

Molecular Weight: 147.969

Accurate Mass: 148.06956

Percentage Composition: C 64.94%; H 6.13%; B 7.31%; O 21.63%

References:

Sazonova, V.A. *et al.*, *Zh. Obshch. Khim.*, 1956, **26**, 1876, (*synth*)

Joy, F. *et al.*, *J. Organomet. Chem.*, 1966, **5**, 506, (*synth, ir*)

Brown, H.C. *et al.*, *J.A.C.S.*, 1972, **94**, 4370; 1973, **95**, 5786; 1975, **97**, 5249, (*synth, use*)

Matteson, D.S. *et al.*, *J. Organomet. Chem.*, 1976, **110**, 25; **114**, 1, (*synth, pmr*)

Raucher, S. *et al.*, *J.O.C.*, 1978, **43**, 4885, (*synth*)

Rao, V.V.R. *et al.*, *J. Organomet. Chem.*, 1979, **179**, C7, (*use*)

Srebnik, M. *et al.*, *Tet. Lett.*, 1988, **29**, 2635, (*synth, use*)

Brown, H.C. *et al.*, *J.O.C.*, 1989, **54**, 6079, (*use, mercuration*)

Gainsford, G.J. *et al.*, *Acta Cryst. C*, 1995, **51**, 2694, (*cryst struct*)