



>>Entry Name: Dicyclohexylborane, 12Cl

CAS Registry Number: 1568-65-6

Cy₂BH

Molecular Formula: C₁₂H₂₃B

Molecular Weight: 178.125

Accurate Mass: 178.18928

Percentage Composition: C 80.92%; H 13.01%; B 6.07%

General Statement: Bridged dimer

Use/Importance: Selective hydroborating reagent

>>Derivative: Dimer

Synonym(s): Tetracyclohexyldiborane(6), 9Cl. Dicyclohexylborane dimer

CAS Registry Number: 54765-85-4

Molecular Formula: C₂₄H₄₆B₂

Molecular Weight: 356.249

Accurate Mass: 356.37856

Percentage Composition: C 80.92%; H 13.01%; B 6.07%

Physical Description: Air- and moisture-sensitive cryst. (THF)

References:

- Zweifel, G. *et al.*, *J.A.C.S.*, 1963, **85**, 2072-2075, (*synth*)
Soderquist, J.A. *et al.*, *J. Organomet. Chem.*, 1978, **156**, C12-C16, (*use*)
Zweifel, G. *et al.*, *J. Organomet. Chem.*, 1978, **156**, 159-170, (*synth, use*)
Rao, V.V.R. *et al.*, *Tetrahedron*, 1978, **34**, 2223-2227, (*use*)
Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 162, (*use*)
Sonnet, P. *et al.*, *J. Chem. Ecol.*, 1980, **6**, 221, (*use*)
Midland, M.M. *et al.*, *J.O.C.*, 1980, **45**, 747-748, (*use*)
Pelster, A. *et al.*, *Borane Reagents*, Academic Press, New York, 1988, (*rev*)
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