>>**Entry Name: Triethylhydroborate(1–),** 12Cl, 9Cl, 8Cl
Synonym(s): Triethylborohydride

CAS Registry Number: 75338-98-6

$[Et_3BH]^{(-)}$

Molecular Formula: $C_6H_{16}B^{(-)}$
Molecular Weight: 99.003
Accurate Mass: 99.134505
Percentage Composition: C 72.79%; H 16.29%; B 10.92%

>>**Derivative:** Li salt
Synonym(s): Lithium triethylhydroborate, 10Cl, 9Cl, 8Cl. Lithium triethylborohydride. Superhydride

CAS Registry Number: 22560-16-3

Molecular Formula: $C_6H_{16}BLi$
Molecular Weight: 105.944
Accurate Mass: 106.150508
Percentage Composition: C 68.02%; H 15.22%; B 10.20%; Li 6.55%
Use/Importance: Commercially available as THF soln. Much more powerful than $LiAlH_4$ eg as nucleophile for S_N2 displacements; reducing agent. Monodeuterio deriv. is used for deuterium incorporation
Physical Description: Air- and moisture-sensitive cryst. (C_6H_6)
Melting Point: Mp 66-67°
Solubility: Sol. THF, C_6H_6
Hazard & Toxicity: Flammable, even in soln.
Aldrich: 17972-8
Sigma: L3385

>>**Derivative:** Na salt
Synonym(s): Sodium triethylhydroborate, 10Cl, 9Cl, 8Cl. Sodium triethylborohydride

CAS Registry Number: 17979-81-6
Molecular Formula: $C_6H_{16}BNa$
Molecular Weight: 121.993
Accurate Mass: 122.124272
Percentage Composition: C 59.07%; H 13.22%; B 8.86%; Na 18.85%
Use/Importance: Commercially available in soln. (in Et_2O, THF, or toluene). Reducing agent for organic and organometallic syntheses
Physical Description: Air- and moisture-sensitive colourless cryst. when pure (often obt. as dark oil)
Melting Point: Mp 30°
Solubility: Sol. Et_2O, THF, toluene
Aldrich: 21341-1
Fluka: 72054
Sigma: S1759

>>**Derivative:** K salt
Synonym(s): Potassium triethylhydroborate, 10Cl, 9Cl, 8Cl. Potassium triethylborohydride

CAS Registry Number: 22560-21-0
Molecular Formula: $C_6H_{16}BK$
Molecular Weight: 138.102
Percentage Composition: C 52.18%; H 11.68%; B 7.83%; K 28.31%
Physical Description: Air- and moisture-sensitive
Aldrich: 21343-8

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