



>>Entry Name: Tribromoborane, 11Cl, 10Cl, 9Cl

Synonym(s): Boron tribromide. Boron bromide (BBr<sub>3</sub>), 9Cl

CAS Registry Number: 10294-33-4

BBr<sub>3</sub>

Molecular Formula: BBr<sub>3</sub>

Molecular Weight: 250.523

Accurate Mass: 247.824313

Percentage Composition: B 4.32%; Br 95.68%

Use/Importance: Commercially available. Reagent for preparation of other B compds. Catalyst in polym., alkylation and acylation reactions. Ultra-pure material used to produce B-doped semiconductors

Physical Description: Colourless liq., v. moisture sensitive

Melting Point: Mp -46°

Boiling Point: Bp 91.3°

Solubility: Sol. CCl<sub>4</sub>, SO<sub>2</sub> (l), SCl<sub>2</sub>; mod. sol. methylocyclohexane

Other Data:  $\Delta H_f$  -208 kJ mol<sup>-1</sup>;  $\Delta H_{hyd}$  -351 kJ mol<sup>-1</sup>

Hazard & Toxicity: Corrosive. Reacts violently with H<sub>2</sub>O

Aldrich: 23036-7

Fluka: 15690

#### References:

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Konaka, S. *et al.*, *Bull. Chem. Soc. Jpn.*, 1966, **39**, 1146, (ed)

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