



>>Entry Name: Tributylborane, 10Cl, 9Cl

CAS Registry Number: 122-56-5

$\text{B}(\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3)_3$

Molecular Formula:  $\text{C}_{12}\text{H}_{27}\text{B}$

Molecular Weight: 182.156

Accurate Mass: 182.22058

Percentage Composition: C 79.13%; H 14.94%; B 5.94%

Use/Importance: Additive used in polym. of alkenes. Reagent for transfer of a butyl group. Commercially available

Physical Description: Liq.

Boiling Point:  $\text{Bp}_{20}$  108-110°.  $\text{Bp}_9$  90-91°

Hazard & Toxicity: May ignite spontaneously esp. as thin film or if absorbed on paper.  $\text{LD}_{50}$  (rat, orl) 1125 mg/kg

Aldrich: 17990-6

>>Derivative:  $\text{Me}_3\text{N}$  complex

Synonym(s): Tributyl(trimethylamine)boron. Tributyl(*N,N*-dimethylmethanamine)boron, 10Cl. *N,N*-Dimethylmethanamine compd. with tributylborane (1:1)

CAS Registry Number: 62685-92-1

Molecular Formula:  $\text{C}_{15}\text{H}_{36}\text{BN}$

Molecular Weight: 241.267

Accurate Mass: 241.294079

Percentage Composition: C 74.67%; H 15.04%; B 4.48%; N 5.81%

#### References:

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Kuimova, M.E. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1979, 314, (*nmr*)

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