



>>Entry Name: Tri(decyloxy)borane

Synonym(s): Boric acid (H_3BO_3) tris(decyl) ester, 10Cl, 9Cl, 8Cl. Tridecyl borate. Tris(decyloxy)borane. Tridecyl orthoborate. Decyl borate

CAS Registry Number: 20236-81-1

$[\text{H}_3\text{C}(\text{CH}_2)_9\text{O}]_3\text{B}$

Molecular Formula: $\text{C}_{30}\text{H}_{63}\text{BO}_3$

Molecular Weight: 482.637

Accurate Mass: 482.487025

Percentage Composition: C 74.66%; H 13.16%; B 2.24%; O 9.94%

Use/Importance: Insect sterilant, stabilizer for polyamides

Physical Description: Moisture-sensitive liq.

Boiling Point: $\text{Bp}_{0.5}$ 273-276°

Solubility: Sol. non-hydroxylic solvs.

Density: d_4^{20} 0.858

Refractive Index: n_D^{20} 1.4440

Rare Chemicals Library: S37582-9

References:

Arbuzov, B.A. *et al.*, *Dokl. Akad. Nauk SSSR*, 1947, **55**, 411, (*synth*)

Young, D.M. *et al.*, *J.O.C.*, 1961, **26**, 2158, (*synth, props*)

Maijs, L. *et al.*, *CA*, 1968, **68**, 117885n, (*props*)

Strauss, I. *et al.*, *CA*, 1972, **77**, 145170e, (*props*)

Maijs, L. *et al.*, *CA*, 1972, **77**, 157609t, (*props*)

Novak, F.I. *et al.*, *CA*, 1979, **90**, 167981r, (*props*)