



**>>Entry Name: (Dimethylamine)trihydroboron**

**Synonym(s):** Trihydro(*N*-methylmethanamine)boron, 10Cl. *N*-Methylmethanamine compd. with borane (1:1), 9Cl. Dimethylamine compd. with borane (1:1), 8Cl. Borane dimethylamine

**CAS Registry Number:** 74-94-2

Me<sub>2</sub>NH-BH<sub>3</sub>

**Molecular Formula:** C<sub>2</sub>H<sub>10</sub>BN

**Molecular Weight:** 58.919

**Accurate Mass:** 59.090629

**Percentage Composition:** C 40.77%; H 17.11%; B 18.35%; N 23.77%

**Use/Importance:** Used in electroless plating of nickel and copper and in photographic developers. Reducing agent

**Physical Description:** Solid

**Melting Point:** Mp 37°

**Boiling Point:** Bp<sub>0.01</sub> 49°

**Other Data:** Dec. at 150°

**Aldrich:** 18023-8

**Fluka:** 15584

**References:**

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **2**, 1127B, (*ir*)

Nöth, H. *et al.*, *Chem. Ber.*, 1960, **93**, 928, (*props*)

Brown, M.P. *et al.*, *J.C.S.(A)*, 1970, 410, (*ir*)

Lloyd, D.R. *et al.*, *J.C.S. Faraday 2*, 1972, **68**, 947, (*pe*)

Nöth, H. *et al.*, *Chem. Ber.*, 1974, **107**, 3070, (*nmr*)

Beachley, O.T. *et al.*, *Inorg. Chem.*, 1975, **14**, 120, (*pmr*)

Kovar, R.A. *et al.*, *Inorg. Chem.*, 1975, **14**, 2239, (*synth, ir*)

Myers, W.H. *et al.*, *Inorg. Chem.*, 1975, **14**, 2874, (*pmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, DOR200