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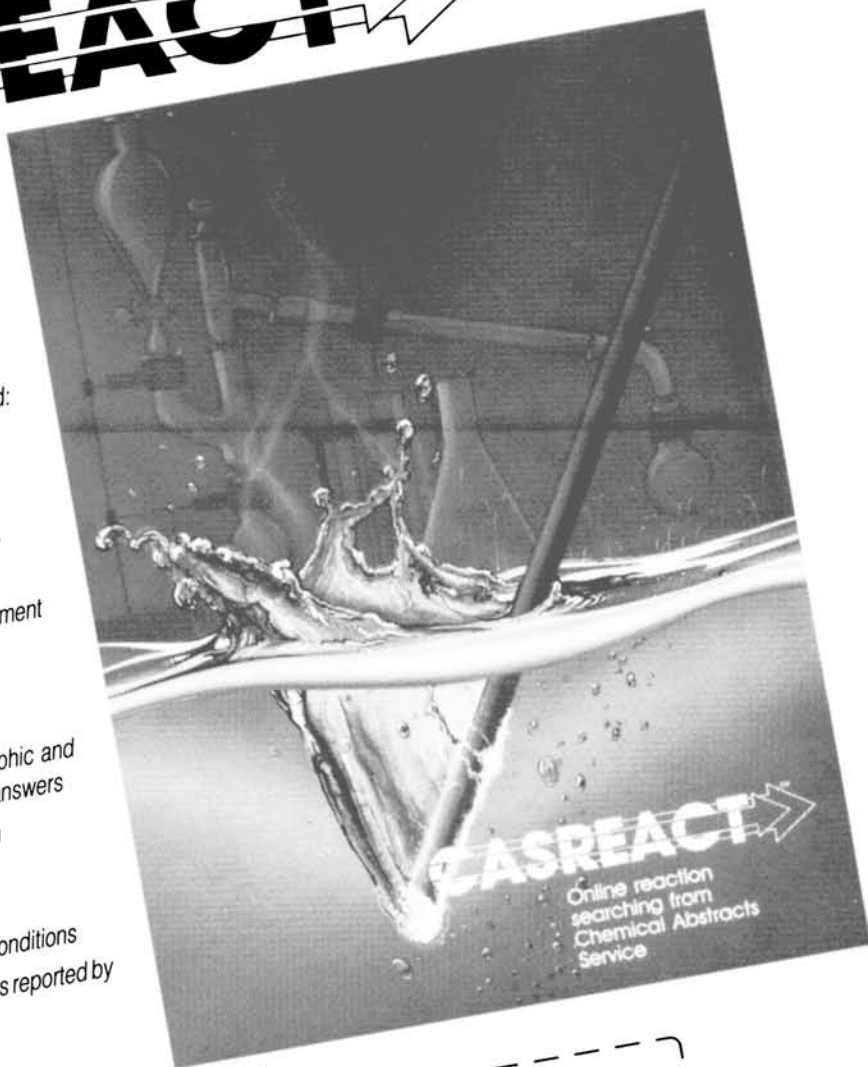
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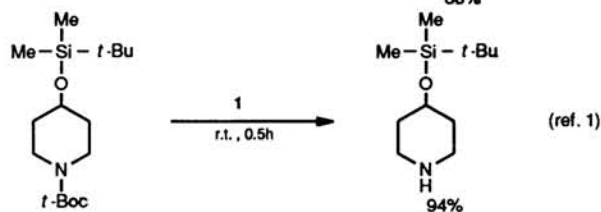
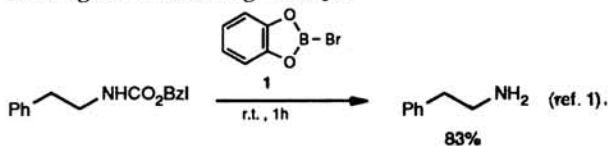
Bromoboranes



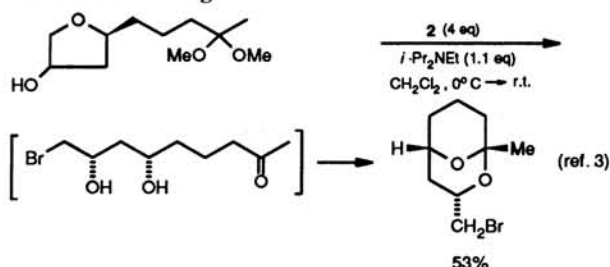
Bromoboranes are useful and versatile reagents. Without question the champion of this class is tribromoborane, commonly called boron tribromide, one of the most widely used and important Lewis acids in chemistry. Boron tribromide is a moisture-sensitive liquid which is easily transferred under an inert atmosphere using standard cannula or syringe techniques. Aldrich offers neat BBr_3 in purities of 99.995%, 99.99% and 99 + %, and as 1.0M solutions in hexanes and dichloromethane. Boron tribromide is also available in solid form as the methyl sulfide complex, $\text{BBr}_3 \cdot \text{SMe}_2$.

Other bromoboranes may be regarded as derivatives of BBr_3 and several of these reagents have come to prominence in recent years. Some interesting examples are shown below.

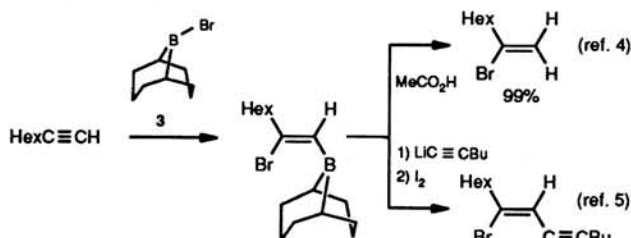
Cleavage of Protecting Groups:



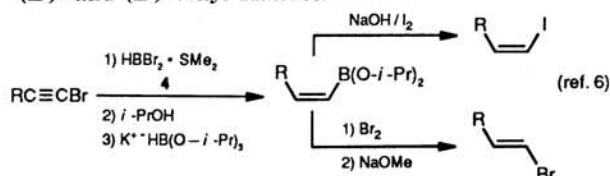
Ketal/Ether Cleavage:



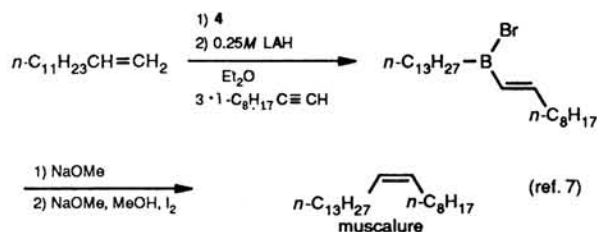
Bromoboration:



(E)- and (Z)-Vinyl Halides:



Insect Pheromone Application:



For more information on these useful products, please consult the Aldrich Catalog/Handbook or call us.

References:

- 1) Boechman, R.K., Jr.; Potenza, J.C. *Tetrahedron Lett.* 1985, 26, 1411.
- 2) Guindon, Y.; Yoakim, C.; Morton, H.E. *J. Org. Chem.* 1984, 49, 3912.
- 3) Guindon, Y. et al. *Tetrahedron Lett.* 1986, 27, 1237.
- 4) Hara, S.; Dojo, H.; Takinama, S.; Suzuki, A. *ibid.* 1983, 24, 731.
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- 6) Brown, H.C.; Somayaji, V. *Synthesis* 1984, 919.
- 7) Brown, H.C.; Basovaiah, D. *J. Org. Chem.* 1982, 47, 3806.

30,416-6	B-Bromocatecholborane, 97% (1)	10g \$14.50
		50g \$47.00
30,330-5	Bromodimethylborane (2)	5g \$29.00; 25g \$116.00
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25,510-6	Dibromoborane-methyl sulfide complex (4)	100g \$68.95
26,205-6	Dibromoborane-methyl sulfide complex, 1.0M in CH ₂ Cl ₂ (4)	100ml \$18.60; 800ml \$96.75
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