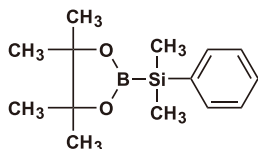


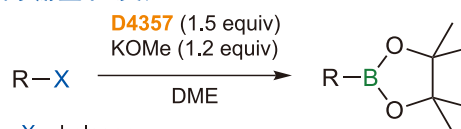
硼基化试剂

硼基化



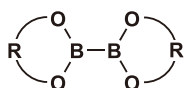
(Dimethylphenylsilyl)boronic Acid Pinacol Ester
1g / 5g [D4357]

无过渡金属硼基化反应



X = halogen
R = alkyl, alkenyl, aryl

H. Ito et al., *J. Am. Chem. Soc.*, **2012**, *134*, 19997.



Tetrahydroxydiboron 5g / 25g [T2953]

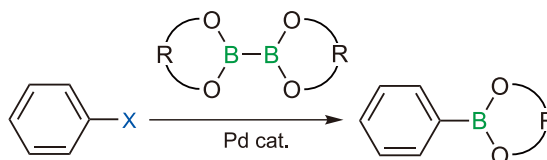
Bis(pinacolato)diboron 1g / 5g / 25g / 100g [B1964]

Bis(neopentyl Glycolato)diboron
1g / 5g / 25g [B2254]

Bis(hexylene Glycolato)diboron 1g / 5g [B2906]

Bis(catecholato)diboron 1g / 5g [B3757]

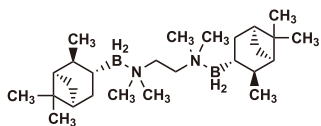
Miyaura-Ishiyama-Hartwig 硼基化反应



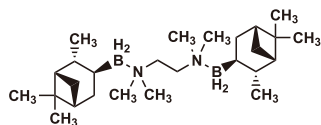
X = halogen

T. Ishiyama, M. Murata, N. Miyaura, *J. Org. Chem.* **1995**, *60*, 7508.
G. A. Molander et al., *J. Am. Chem. Soc.* **2010**, *132*, 17701

硼氢化反应

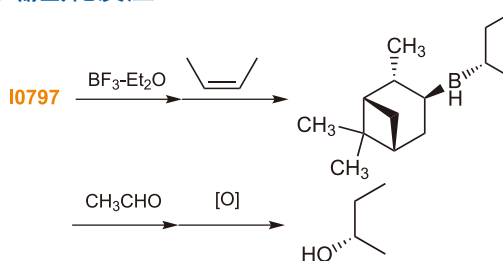


(+)-Isopinocampheylborane TMEDA Complex
5g [I0796]

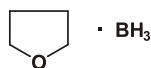


(-)-Isopinocampheylborane TMEDA Complex
5g [I0797]

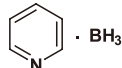
不对称硼氢化反应



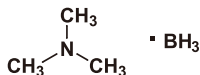
H. C. Brown, et al., *Bull. Chem. Soc. Jpn.* **1988**, *61*, 93.
H. C. Brown, et al., *J. Organomet. Chem.* **1995**, *500*, 1



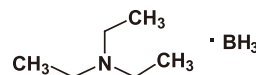
Borane - Tetrahydrofuran Complex
(8.5% in Tetrahydrofuran, ca. 0.9mol/L)
100mL / 500mL
[T2346]



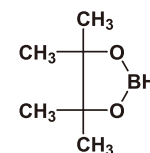
Borane - Pyridine Complex
25mL
[B1569]



Trimethylamine Borane
25g
[T1181]



Triethylamine Borane
25g
[T1180]



Pinacol Borane
5g / 25g
[T2572]

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硼基化