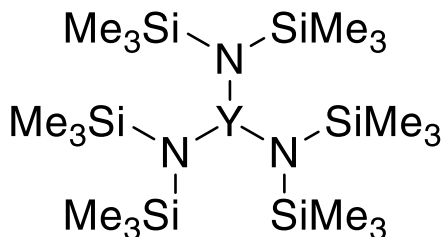


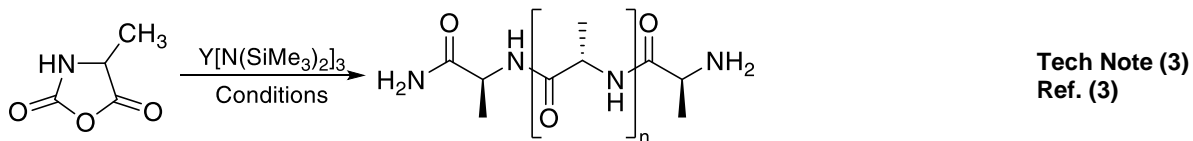
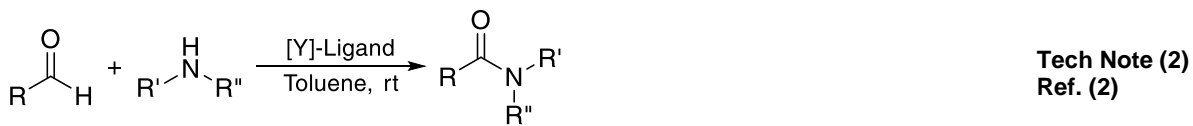
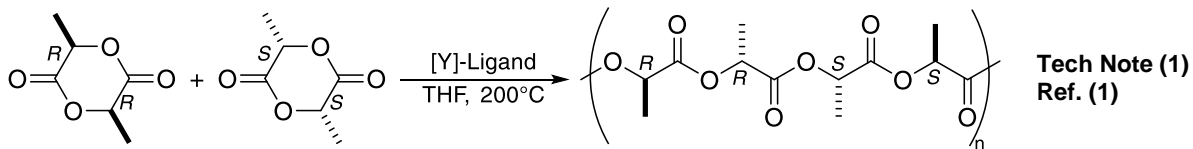
Catalog # 39-1500 Tris[N,N-bis(trimethylsilyl)amide]yttrium(III), min. 98% (99.9%-Y) (REO)

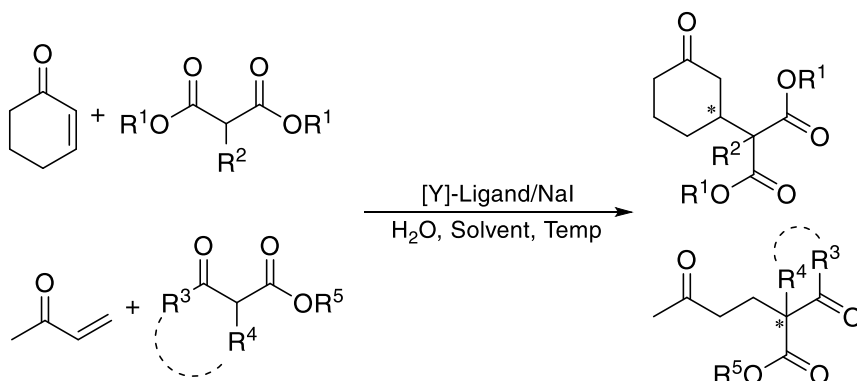


Catalysis Applications

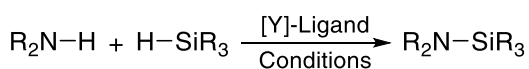
Technical Notes:

1. Catalyst for ring-opening polymerization of *rac*-lactide.
2. Used for room temperature amidation of aldehydes via catalytic C–N bond formation.
3. Used in ring opening polymerization of α -amino acid *N*-carboxyanhydrides.
4. Used in asymmetric Michael Addition of 1,3-dicarbonyls to enones with the [Y]/NaI precatalyst system.
5. Used in Y-catalyzed amine-silane dehydrocoupling.
6. Catalyst for the intramolecular alkene hydroamination and degradation of amidines.
7. Catalyst for synthesis of azaindolines and Naphthyridines via C–H cyclization of functionalized pyridines.
8. Used in Y-catalyzed hydroboration reduction of amides to amines.
9. Used in catalytic hydroboration of carbonyl compounds.
10. Used in U-catalyzed sequential inter- and intramolecular C–N bond formation of 2-nitrile-2'-alkenyl-(alkynyl)biphenyls with amines.

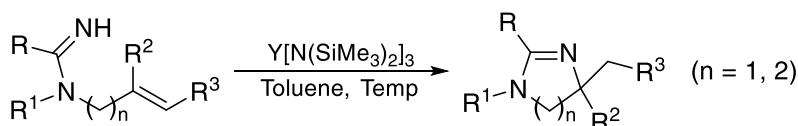




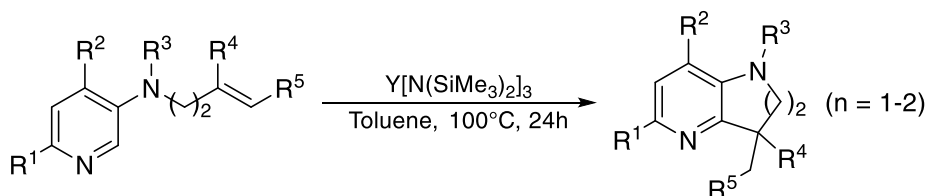
Tech Note (4)
Ref. (4)



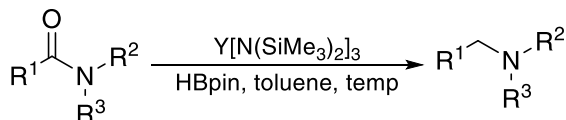
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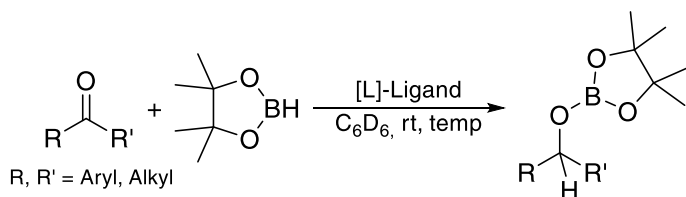
Tech Note (6)
Ref. (6)



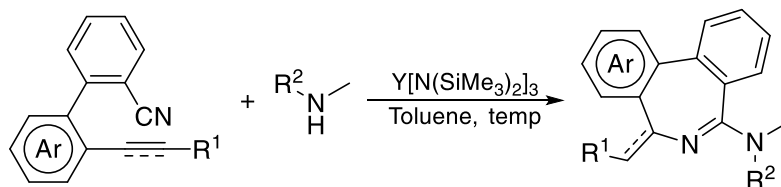
Tech Note (7)
Ref. (7)



Tech Note (8)
Ref. (8)



Tech Note (9)
Ref. (9)



Tech Note (10)
Ref. (10)

References:

1. [Chem. Eur. J. 2006, 12, 169.](#)
2. [Dalton Trans. 2012, 41, 7897.](#)
3. [J. Polym. Sci. Part A, Polym. Chem. 2012, 50, 1076.](#)
4. [J. Am. Chem. Soc. 2014, 136, 8034.](#)
5. [Organometallics 2015, 34, 4369.](#)

6. [Catal. Sci. Technol. 2018, 8, 5573.](#)
7. [Adv. Synth. Catal. 2020, 362, 851.](#)
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9. [J. Org. Chem. 2021, 86, 2224.](#)
10. [Org. Lett. 2021, 23, 6946.](#)

CVD/ALD Applications

Thermal Behavior:

- Melting point: 180-184°C [1]
- Sublimation: 105°/10⁻⁴ Torr

Technical Notes:

1. Precursor for yttrium thin film deposition [2].

References:

1. [J. Chem. Soc. Dalton Trans. 1973, 1021.](#)
2. WO2002027063 A2 2002-04-04.