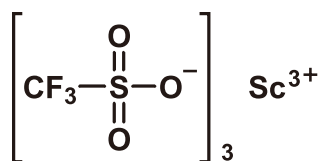


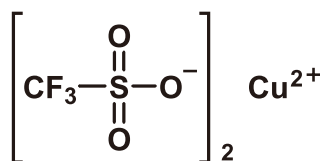
水介质中稳定的Lewis酸

优点

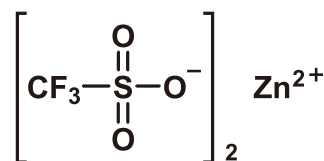
- 环境友好型Lewis酸可应用于水介质中的有机反应
- 在Aldol、Diels-Alder等反应中可以有效利用
- 反应后Yb(OTf)₃可以再利用



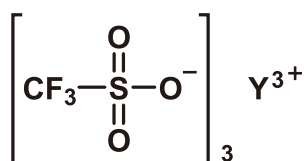
Scandium(III)
Trifluoromethanesulfonate
1g / 5g
[T1663]



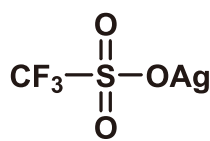
Copper(II)
Trifluoromethanesulfonate
5g / 25g
[T1292]



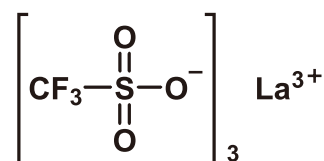
Zinc(II)
Trifluoromethanesulfonate
25g
[T1294]



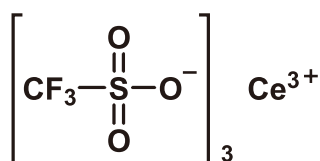
Yttrium(III)
Trifluoromethanesulfonate
5g / 25g
[T1921]



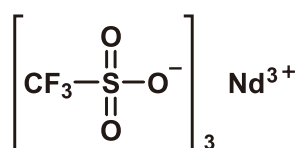
Silver
Trifluoromethanesulfonate
1g / 10g / 25g
[T1331]



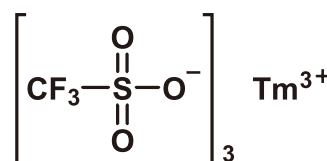
Lanthanum(III)
Trifluoromethanesulfonate
5g / 25g
[T1293]



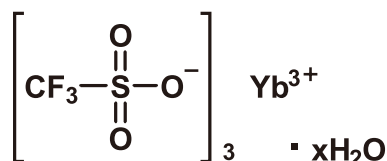
Cerium(III)
Trifluoromethanesulfonate
5g / 25g
[T1918]



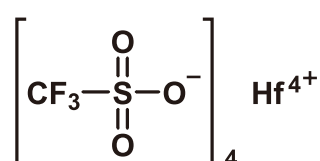
Neodymium(III)
Trifluoromethanesulfonate
5g / 25g
[T1919]



Thulium(III)
Trifluoromethanesulfonate
5g
[T1920]



Ytterbium(III)
Trifluoromethanesulfonate Hydrate
5g / 25g
[T1610]



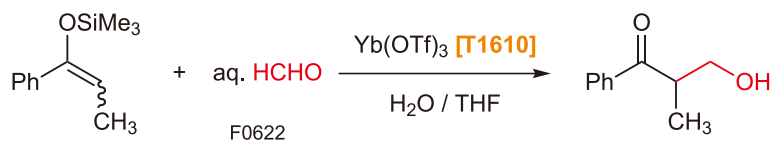
Hafnium(IV)
Trifluoromethanesulfonate
1g / 5g
[T1708]



Indium(III)
Chloride Anhydrous
5g / 25g
[I0778]

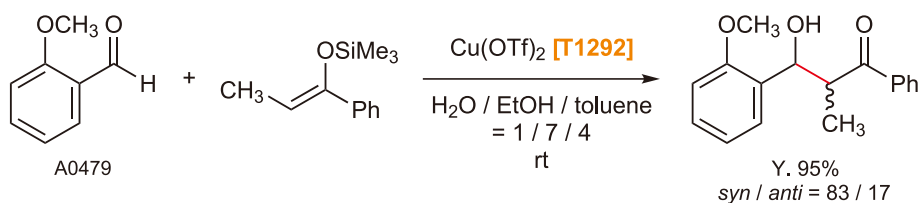
应用

Aldol反应



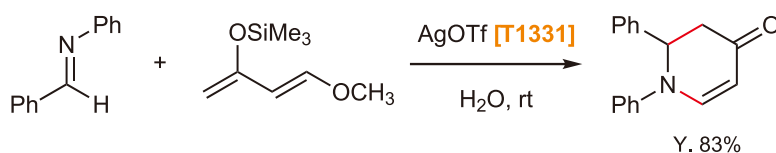
1st use Y. 94%
2nd use Y. 91%
3rd use Y. 93%

S. Kobayashi, *Chem. Lett.* **1991**, 20, 2187.



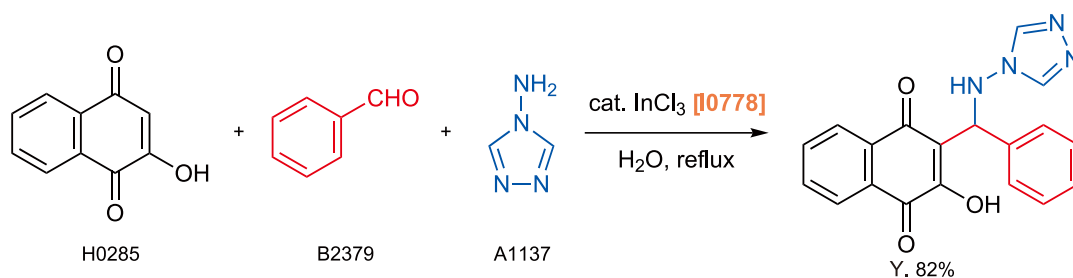
S. Kobayashi, S. Nagayama, T. Busujima, *Chem. Lett.* **1997**, 26, 959.

Diels-Alder反应



C. Loncaric, K. Manabe, S. Kobayashi, *Adv. Synth. Catal.* **2003**, 345, 475.

多组分反应



M. Dabiri, Z. N. Tisseh, A. Bazgir, *Dyes and Pigments* **2011**, 89, 63.

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Lewis酸

