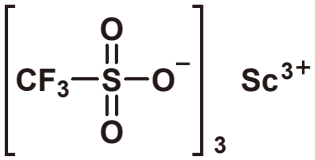
CHEMISTRY

TCI

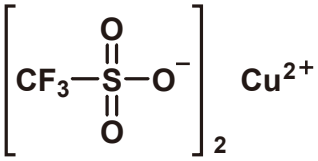
Stable Lewis Acids in Aqueous Media

Advantages

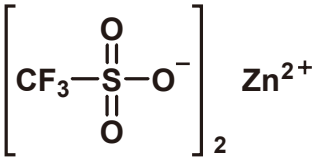
- Environmental-friendly Lewis acids applicable to organic reactions in water.
- Effectively used for reactions such as aldol reactions and Diels-Alder reactions.
- $Yb(OTf)_3$ can be reused after the reaction.



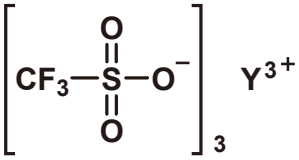
Scandium(III) Trifluoromethanesulfonate
1g / 5g
[T1663]



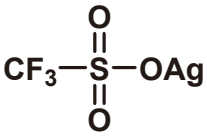
Copper(II) Trifluoromethanesulfonate
5g / 25g
[T1292]



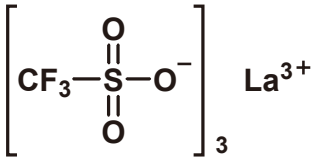
Zinc(II) Trifluoromethanesulfonate
5g / 25g
[T1294]



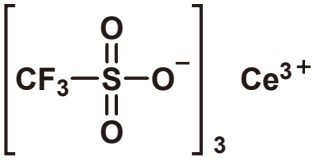
Yttrium(III) Trifluoromethanesulfonate
5g / 25g
[T1921]



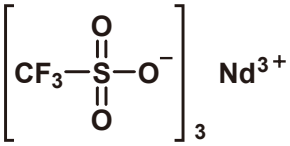
Silver Trifluoromethanesulfonate
1g / 10g / 25g
[T1331]



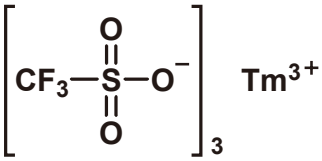
Lanthanum(III) Trifluoromethanesulfonate
5g / 25g
[T1293]



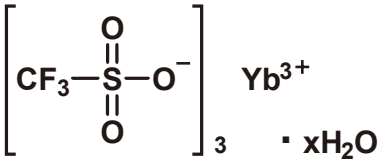
Cerium(III) Trifluoromethanesulfonate
5g / 25g
[T1918]



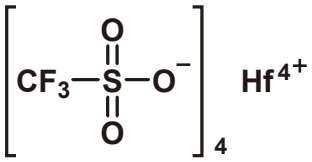
Neodymium(III) Trifluoromethanesulfonate
5g / 25g
[T1919]



Thulium(III) Trifluoromethanesulfonate
5g
[T1920]



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



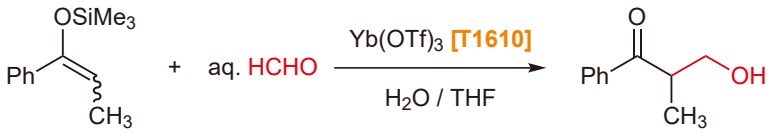
Hafnium(IV) Trifluoromethanesulfonate
1g / 5g
[T1708]

$InCl_3$

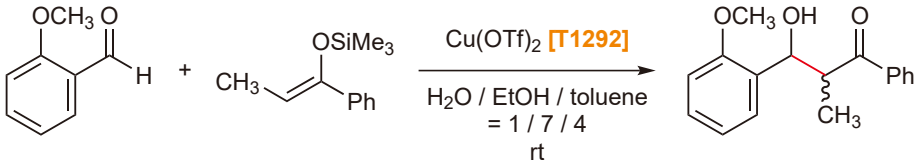
Indium(III) Chloride Anhydrous
5g / 25g
[I0778]

Applications

Aldol Reactions

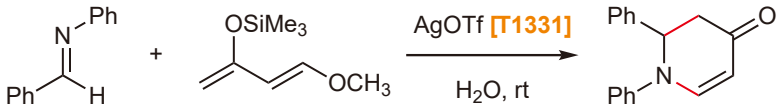


Reference S. Kobayashi, *Chem. Lett.* **1991**, *20*, 2187.
https://doi.org/10.1246/cl.1991.2187



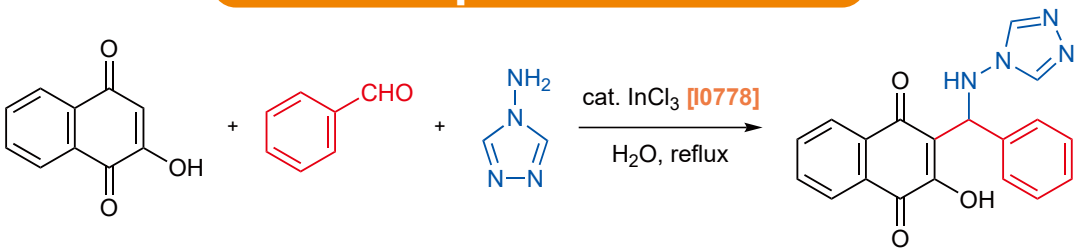
Reference S. Kobayashi, S. Nagayama, T. Busujima, *Chem. Lett.* **1997**, *26*, 959.
https://doi.org/10.1246/cl.1997.959

Diels-Alder Reactions



Reference C. Loncaric, K. Manabe, S. Kobayashi, *Adv. Synth. Catal.* **2003**, *345*, 475.
https://doi.org/10.1002/adsc.200390052

Multicomponent Reactions



Reference M. Dabiri, Z. N. Tisseh, A. Bazgir, *Dyes and Pigments* **2011**, *89*, 63.
https://doi.org/10.1016/j.dyepig.2010.09.004

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