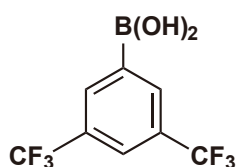


Powerful Condensation Organocatalysts

Standard condensations between carboxylic acids and alcohols or amines typically coexist as a mixture in equilibrium, and are dependent on Le Chatelier's principle via water removal and dehydration to drive the reaction to completion. Alternative methods using organocatalysts can produce a variety of esters through processes far less dependent upon Le Chatelier's principle. Further, some applications do not require the removal of water for the reaction to proceed, thereby simplifying the method.

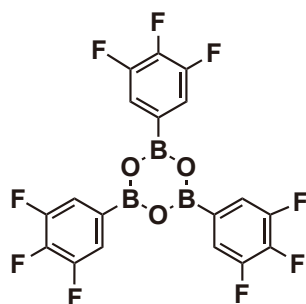
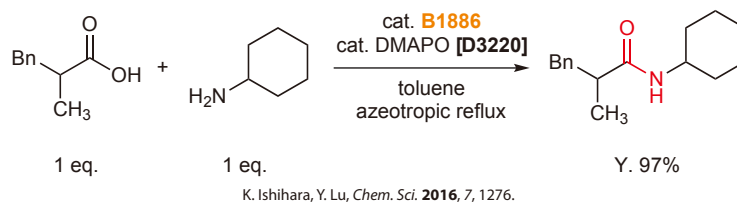
Boronic Acid Derivatives

The following boronic acid derivatives are water tolerant and can catalyze a variety of amidation reactions.



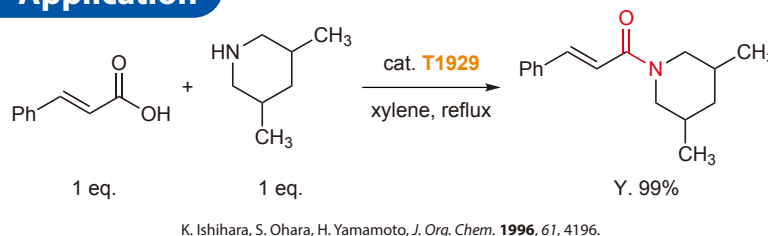
3,5-Bis(trifluoromethyl)phenylboronic Acid
1g / 5g / 25g
[B1886]

Application



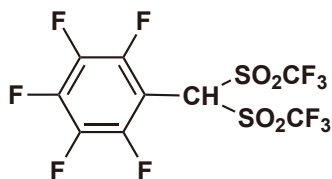
2,4,6-Tris(3,4,5-trifluorophenyl)boroxin
1g / 5g
[T1929]

Application



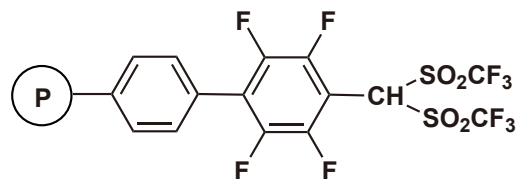
Powerful Condensation Organocatalysts

Brønsted Acids and Salts



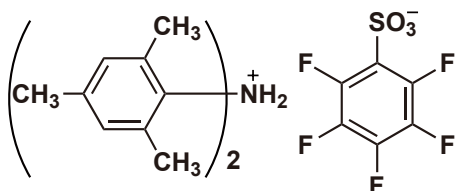
1-[Bis(trifluoromethanesulfonyl)methyl]-2,3,4,5,6-pentafluorobenzene

100mg / 1g
[B2291]



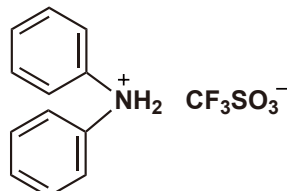
Bis(trifluoromethanesulfonyl)methyltetrafluorophenyl Polystyrene Resin cross-linked with 2% DVB

100mg
[B2292]



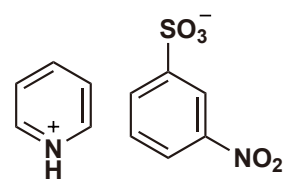
Dimesitylammonium Pentafluorobenzenesulfonate

1g / 5g
[D3293]



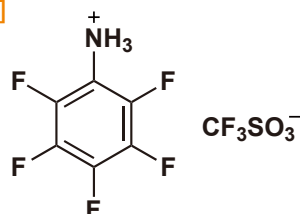
DPAT

1g / 5g / 25g
[D3683]



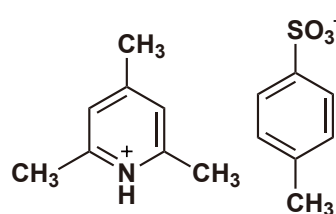
Pyridinium 3-Nitrobenzenesulfonate

5g / 25g
[P0941]



Pentafluoroanilinium Triflate

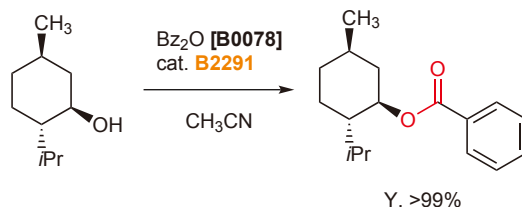
1g / 5g / 25g
[P1626]



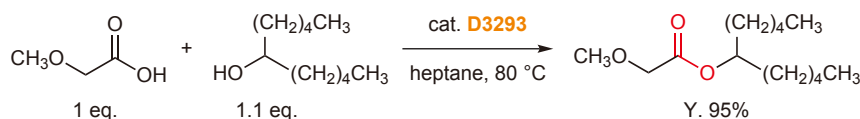
CPTS

25g
[T1122]

Applications



K. Ishihara, A. Hasegawa, H. Yamamoto, *Angew. Chem. Int. Ed.* **2001**, 40, 4077.



K. Ishihara, S. Nakagawa, A. Sakakura, *J. Am. Chem. Soc.* **2005**, 127, 4168.

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Benzoic Anhydride

1g / 5g [D3220]
25g / 100g / 500g [B0078]

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