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**

![Structure](B(OH)2 CF3 CF3)

1g / 5g / 25g

[B1886]


**Application**

\[
\text{Bn} \quad \text{O} \quad \text{H} \quad \text{N} \\
\text{CH}_3 + \quad \text{H}_2\text{N} \quad \text{CH}_3 \quad \text{OH}
\]

1 eq. 1 eq. Y. 97%


**2,4,6-Tris(3,4,5-trifluorophenyl)boroxin**

![Structure]

1g / 5g

[T1929]


**Application**

\[
\text{Ph} \quad \text{O} \quad \text{N} \quad \text{CH}_3 \quad \text{CH}_3 \\
\quad \text{HN} \quad \text{CH}_3 \quad \text{O} \quad \text{N} \quad \text{CH}_3 \quad \text{CH}_3
\]

1 eq. 1 eq. Y. 99%

**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**


Y. >99%


**Related Products**

4-(Dimethylamino)pyridine N-Oxide Hydrate
Benzoic Anhydride
1g / 5g [D3220]
25g / 100g / 500g [B0078]

For further information please refer to our website at www.TCIchemicals.com.

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