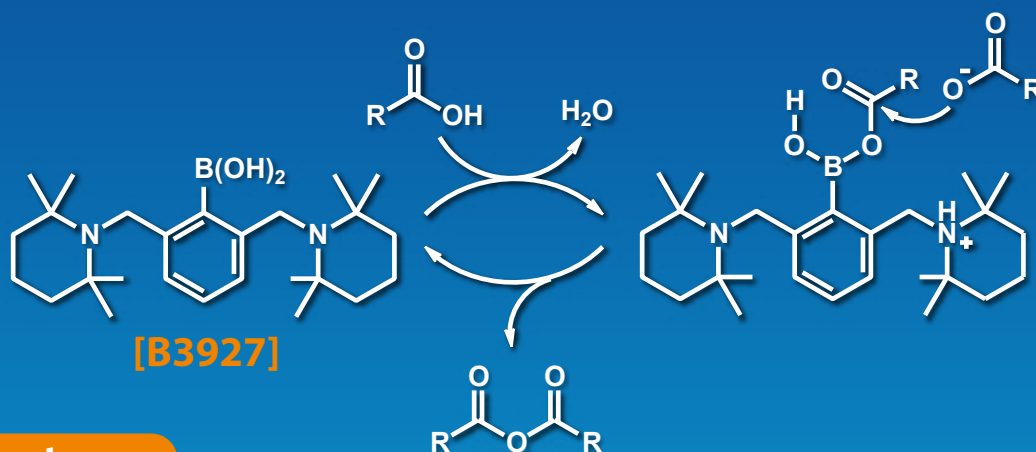


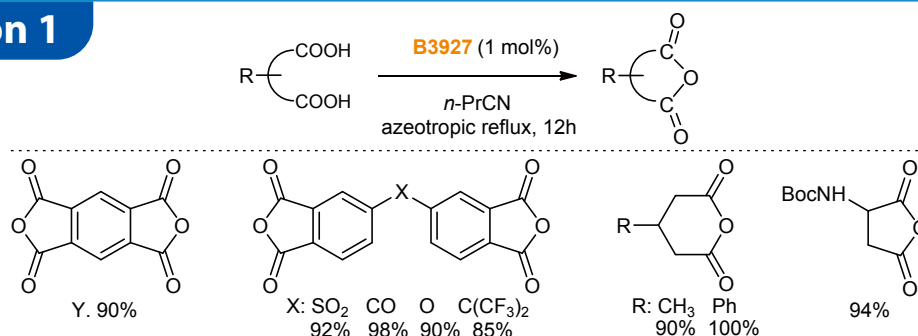
Dehydrative Intramolecular Condensation Catalyst for the Synthesis of Carboxylic Anhydrides



Advantages

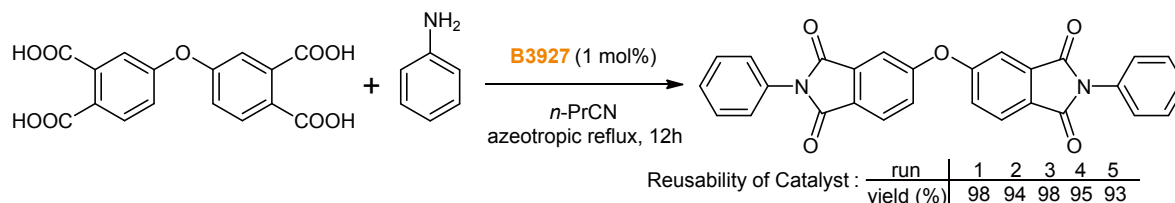
- A hybrid catalyst having Lewis acid and Brønsted base moieties in a molecule
- Reaction proceeds with a small amount of catalyst under mild conditions

Reaction 1



Reaction 2

Direct Synthesis of Diimide from Tetracarboxylic Acid and Primary Amine



B3927 2,6-Bis[(2,2,6,6-tetramethyl-1-piperidinyl)methyl]phenylboronic Acid 200mg / 1g
(contains varying amounts of Anhydride)

A. Sakakura, T. Ohkubo, R. Yamashita, M. Akakura, K. Ishihara, *Org. Lett.* **2011**, 13, 892.

A. Sakakura, R. Yamashita, T. Ohkubo, M. Akakura, K. Ishihara, *Aust. J. Chem.* **2011**, 64, 1458.

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