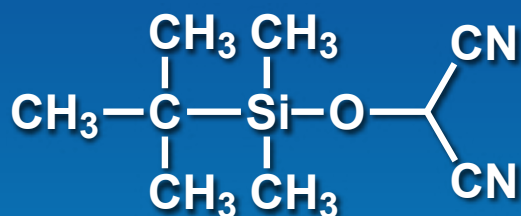


MAC-TBS Reagent Useful for Three-component Reactions

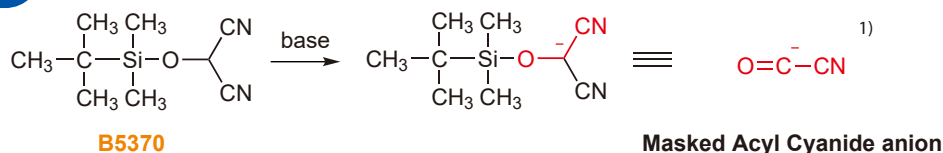


[B5370]

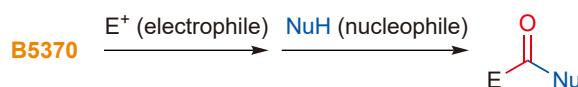
Advantages

- A Masked Acyl Cyanide Anion is Generated under Weakly Basic Conditions or with Transition Metal Catalysts.
- In Some Cases, a Nucleophile, an Electrophile and MAC-TBS are Coupled in One-pot.

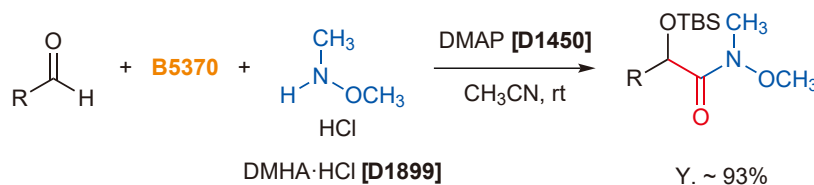
Applications



Three Component Reaction using MAC-TBS Reagent



Synthesis of α -Silyloxy Weinreb Amides³⁾



- References** 1) H. Nemoto, Y. Kubota, Y. Yamamoto, *J. Org. Chem.* **1990**, *55*, 4515.
 2) H. Nemoto, R. Ma, I. Suzuki, M. Shibuya, *Org. Lett.* **2000**, *2*, 4245.
 3) H. Nemoto, R. Ma, H. Moriguchi, T. Kawamura, M. Kamiya, M. Shibuya, *J. Org. Chem.* **2007**, *72*, 9850.

(*tert*-Butyldimethylsilyloxy)malononitrile

200mg / 1g [B5370]

Related Products

4-Dimethylaminopyridine

25g / 100g / 500g [D1450]

N,O-Dimethylhydroxylamine Hydrochloride (= DMHA·HCl)

25g / 100g / 500g [D1899]

This product was produced by collaboration with Assoc. Prof. Hisao Nemoto, Tokushima University.

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