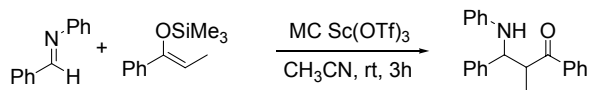


Catalog # 21-2004 Scandium(III) trifluoromethanesulfonate (Scandium triflate), Microencapsulated in a Styrene Polymer [~13% $\text{Sc}(\text{SO}_3\text{CF}_3)_3$]

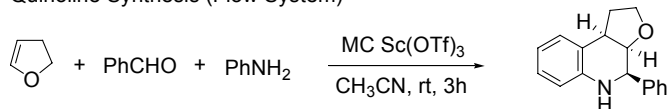
Technical Note:

1. Microencapsulated Scandium triflate is a useful Lewis acid catalyst which can be applied to various synthetic procedures such as the aldol, Michael, alkylation, Friedel-Crafts acylation, Mannich and Strecher type reactions. The encapsulated $\text{Sc}(\text{SO}_3\text{CF}_3)_3$ has a higher activity than the free monomer, can easily be separated from the reaction mixture, and is reusable.

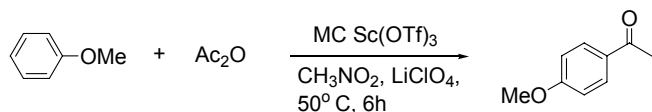
Imino Aldol Reaction (Flow System)



Quinoline Synthesis (Flow System)



Friedel-Crafts Acylation (Batch System)



References:

1. *J. Am. Chem. Soc.*, **1998**, 120, 2985.
2. *Eur. J. Org. Chem.*, **1999**, 15.