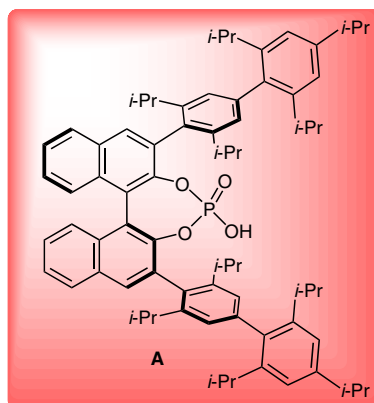
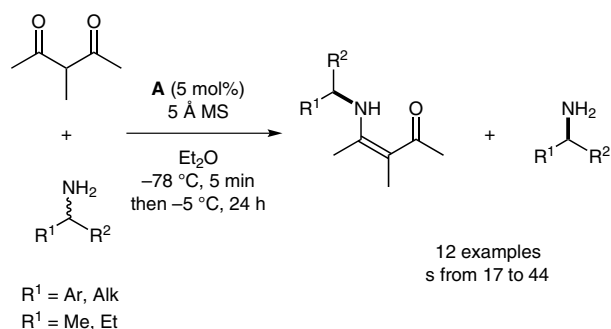


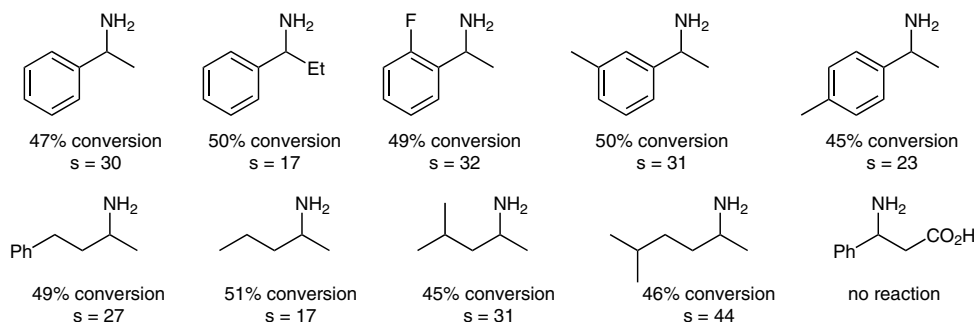
S. DAS*, N. MAJUMDAR*, C. K. DE*, D. S. KUNDU*, A. DÖHRING*, A. GARCZYNSKI*,
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Asymmetric Catalysis of the Carbonyl-Amine Condensation: Kinetic Resolution of Primary Amines
J. Am. Chem. Soc. **2017**, *139*, 1357–1359.

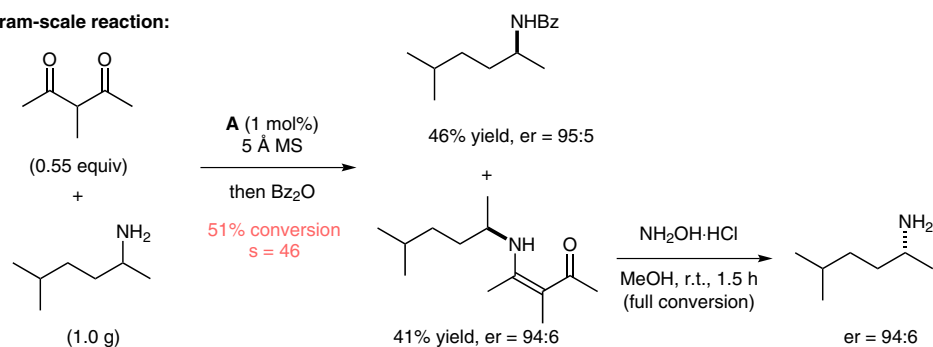
Kinetic Resolution of Primary Amines through Chiral Phosphoric Acid Catalysis



Selected examples:



Gram-scale reaction:



Significance: The List group reports a kinetic resolution of primary amines by selective condensation with a 1,3-diketone. The reaction is catalyzed by a chiral BINOL-derived phosphoric acid. The method is applicable to both benzylamine derivatives and aliphatic substrates.

Comment: The authors demonstrated an acid-catalyzed enantioselective carbonyl-amine condensation through a kinetic resolution of primary amines. There is great potential of the observed reactivity in many other transformations.

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