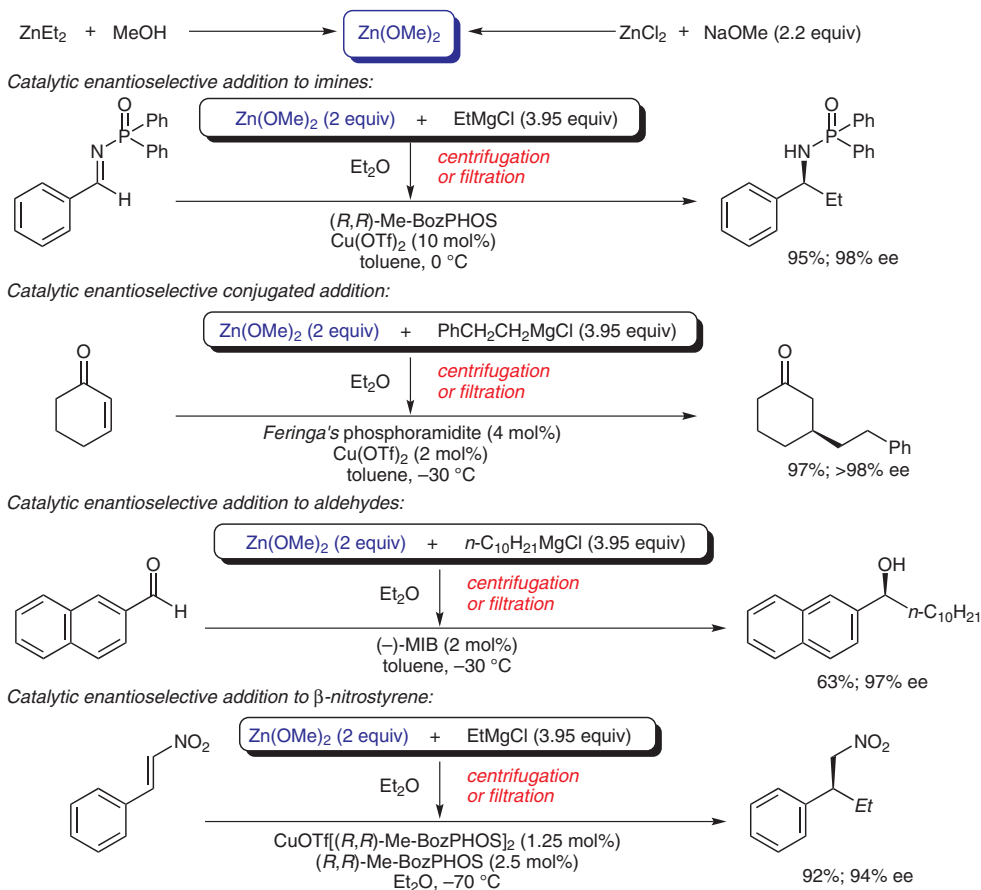


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General Method for the Expedient Synthesis of Salt-Free Diorganozinc Reagents Using Zinc Methoxide
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Synthesis of Salt-Free Diorganozinc Reagents and Their Use in Asymmetric Reactions



Significance: A new method for the synthesis of salt-free diorganozinc species from Grignard reagents using Zn(OMe)_2 is presented in this article. The salt-free diorganozinc species were applied to several enantioselective addition reactions which are known to be sensitive to the presence of salts. The respective chiral products were obtained with good to high yields and excellent enantiomeric excesses. No change in the efficiency of all asymmetric reactions was observed when neat dialkylzinc reagents were used.

Comment: This method potentially increases the synthetic scope of already known enantioselective additions with dialkylzinc species. With this synthesis at hand an extension of the enantioselective addition reactions to more functionalized zinc species can be envisaged.

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