

A New and Efficient Procedure for Synthesis of 1,5-Benzodiazepine Derivatives in Solution and under Solvent-Free Conditions

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Abstract

Borax/phosphorous oxychloride (BPO) efficiently catalyzes the preparation of 1,5-benzodiazepine derivatives of *o*-phenylenediamines and ketones in solvent-free and solution conditions. The reaction proceeds efficiently under ambient conditions giving excellent yields of the products. This new protocol allows the recycling of catalyst with no loss in its potency.