

Evaluation of silica-H₂SO₄ as an efficient heterogeneous catalyst for the synthesis of chalcones.

Abstract

We report an efficient silica-H₂SO₄ mediated synthesis of a variety of chalcones that afforded the targeted compounds in very good yield compared to base catalyzed solvent free conditions as well as acid or base catalyzed refluxing conditions.

Keyword: Silica-H₂SO₄; Solvent free conditions; Chalcone; Arylidene inadanone; Arylidene tetralone; Claisen-Schmidt condensation.