

عنوان مقاله:

Aluminum sulfate octadecahydrate as an eco-safe catalyst promoted environmentally friendly synthesis of polysubstituted quinolines

محل انتشار:

پنجمین کنفرانس بین المللی مهندسی محیط زیست و منابع طبیعی (سال: 1398)

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خلاصه مقاله:

Aluminum sulfate octadecahydrate ($\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$) catalyzed one-pot multi-component synthesis of biologically active polysubstituted quinolines via Friedländer hetero-annulation/condensation in a one-pot condensation of 2-aminobenzophenone and ketone/ketoesters under solvent-free conditions with no necessity of chromatographic purification steps. Use of readily, environmental friendly, easily handled and inexpensive catalyst, good yields, solvent-free conditions and operational simplicity are among the other added advantages that make this approach an attractive alternative for the synthesis of this biologically active compounds.

کلمات کلیدی:

Polysubstituted quinolines, Aluminum sulfate octadecahydrate ($\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$), Solvent-free conditions, Environmentally friendly synthesis

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