

Curtius 転位反応及びマイクロ波照射下熱環化反応による ピリド縮合複素環類のワンポット合成

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One-pot synthesis of fused 2-pyridones from heteroarylacrylic acid via Curtius rearrangement and microwave-assisted thermal electrocyclicization

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ABSTRACT: We investigated the one-pot synthesis of several fused pyridine ring systems based on a Curtius rearrangement, followed by a microwave-assisted thermal electrocyclic reaction of a 2-aza 6 π -electron system including isocyanate. We synthesized seven heterocyclic compounds containing a fused pyridine ring. In these results, the one-pot synthesis of fused pyridine ring system from (E)-acrylic acids under microwave irradiation conditions was more effective than the conventional reaction conditions in terms of the yield and the reaction time.

抄録 様々なタイプのヘテロアリアルクリル酸誘導体から Curtius 転位反応及びマイクロ波照射下熱環化反応によるワンポット合成法を用い様々なタイプのピリド縮合複素環類の合成法を検討した内容である。

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