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Selective exploitation of acetoacetate carbonyl groups using imidazolium based ionic liquids: Synthesis of 3-oxo-amides and substituted benzimidazoles

Ankita Chakraborty, Swapan Majumdar, Dilip K Maiti

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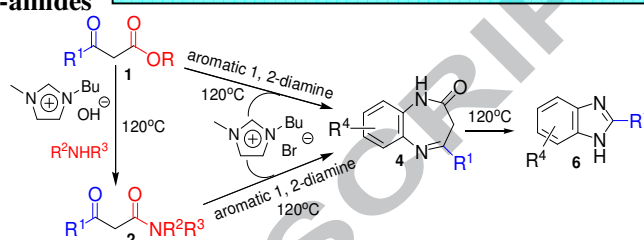
Graphical Abstract

Selective exploitation of acetoacetate carbonyl groups using imidazolium based ionic liquids: Synthesis of 3-oxo-amides and substituted benzimidazoles

Ankita Chakraborty, Swapan Majumdar* and Dilip K. Maiti

An unprecedented imidazolium based ionic liquid tuned selective aminolysis of ester-carbonyl and cyclization catalysis involving carbonyl group of acetoacetates is demonstrated to achieve acetoacetates, their chiral analogues and benzimidazoles.

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