

عنوان مقاله:

One-pot Four-component Reaction between Arylamines, Arylglyoxals, Cyclohexyl Isocyanide, and Acetylene Diesters:
An Efficient Synthesis of ۲H-iminopyran Derivatives

محل انتشار:

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خلاصه مقاله:

A facile synthesis of highly functionalized ۲H-iminopyran derivatives by the multi-component reaction of cyclohexyl isocyanide, dialkyl acetylenedicarboxylates, arylglyoxals and arylamines is described. The zwitterionic intermediate produced by addition of cyclohexyl isocyanide to electron-deficient acetylene diesters was trapped by the electrophilic imine moiety of α -iminoketones, derived from arylglyoxals and arylamines, to afford an inner salt intermediate which converted to ۲H-iminopyran derivatives by an intramolecular cyclization.

کلمات کلیدی:

α -Iminoketones, Isocyanide, Iminopyrans, Four-component reaction, Arylglyoxals

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