

An efficient method for one-pot synthesis of 6-amino-4H-pyran derivatives

Maryam sojoudi*,

6-amino-5-cyano-4H-pyrans are some of the most well-known synthetic heterocyclic compounds and they have attracted considerable attention of chemists in recent years because of their extensive range of biological and pharmacological activities, such as anti-allergic, spasmolytic, diuretic, anti-cancer, and anti-anaphylactic activities. Herein, DABCO has been successfully applied to perform the reaction of ethyl acetoacetate or benzyl acetoacetate, arylaldehydes and malononitrile in water at reflux temperature to provide a series of 6-amino-5-cyano-4H-pyran derivatives in excellent yields.

Keywords : Keywords: DABCO, 6-amino-5-cyano-4H-pyrans, multicomponent reaction, malononitrile

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