

## عنوان مقاله:

Multicomponent reaction for the synthesis of 2,3-dihydroquinazolin-4(1H)-ones using isatoic anhydride, aldehydes and NH4OAc under Solvent-free conditions

# محل انتشار:

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#### خلاصه مقاله:

Quinazolinone derivatives are nowadays well recognized as valuable scaffold in drug discovery. In this manuscript an improved multicomponent process for the chemical synthesis of 2,3-dihydroquinazolin-4(1H)-one derivatives is described. Isatoic anhydride and aromatic aldehydes with ammonium acetate have been subjected to a threecomponent reaction under solvent-free conditions and catalysis of SnCl2 dihydrate at 110 °C. All of the products are known and were characterized using melting point, 1HNMR and infrared spectra (FT-IR), and were compared with trusty references. The present methodology offers several advantages, such as cost efficiency, easy experimental workup procedure, mild reaction conditions, short reaction time, good to high yields and synthesis of wide range of .products. Keywords: Isatoic anhydride; 2,3-dihydroquinazolin-4(1H)-one; SnCl2.2H2O; Solvent-free conditions

کلمات کلیدی: Isatoic anhydride, 2,3-dihydroquinazolin-4(1H)-one, SnCl2.2H2O, solvent-free conditions

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