

Abstract

Quinazolinone derivations are considered nitrogenous hydroxyl compounds which their various medical and biological effects have been reported. Accordingly, the compounds are so important for finding newer and more effective methods to synthesize the compounds. In this project, it's tried to present new methods using Fructose as catalyst based on following the principles of Green chemistry for making Quinazolinone and its derivations. In this project, optimal conditions are studied for reaction such as kind of solvent, temperature and kind of catalyst in order to make a pure and with acceptable output product. Some of important features of the presented methods are different advantages such as rather short times fir reaction, simple purification of product, good to excellent outputs.

Keywords: Quinazolinone, Benzaldehyde, 2-Amino-benzothiazol, Isatoic anhydride, Green chemistry.



University of Zabol
Pardis Khodgardan
Graduate School
Faculty of Science
Department of Chemistry

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Supervisor:

Dr. Ashraf Moradi

Advaisor

Dr. Hamid Bayzaei

By:

Razyieh Davoodi

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