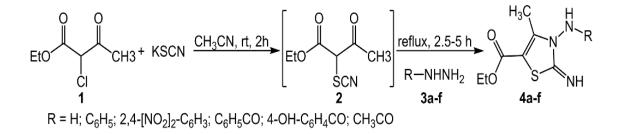
Abestract

A facile one-pot two-step process for the synthesis of ethyl 2-imino-4-methyl-2,3dihydrothiazole-5-carboxylates *via* the cyclocondensation of ethyl 2thiocyanatoacetoacetate with a variety of hydrazine and hydrazidederivatives has been developed.Ethyl 2-thiocyanatoacetoacetate itself has been synthesized as intermediate from the reaction of ethyl 2-chloroacetoacetate with potassium thiocyanate (KSCN).The molecular structures of these newly synthesized compounds were elucidated on the basis of elemental analysis and spectral data.

Keyword: three-component reaction; thiocyanation; thiazole derivatives;

cyclocondensation; hydrazines; hydrazides.





University of Zabol Graduate School Faculty of Science Department of Chemistry

The Thesis Submitted for the Degree of M Sc

(In the field of organic Chemistry)

Study of thiazole synthesis using various hydrazines and hydrazides derivatives

Supervisors

Dr. Hamid Beyzaei

Dr. Reza Aryan

By:

Hadi moghadas

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