

Development of New Method for the Synthesis of Pyrazole Derivative

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Abstract: The pyrazole ring is a well-known structural originate in numerous pharmaceutically active compounds. Pyrazole framework plays a vital role in biologically active compounds and therefore represents an appealing pattern in medicinal chemistry [1-2]. likewise, pyrazole derivatives have showed important biological activities, such as anti-microbial [3], analgesic [4], anti-inflammatory [5] and anticancer [6] activities. This gave a great momentum to the search for probable pharmacologically active drugs carrying pyrazole substituents. In persistence of former work on the development of the suitable synthetic method for biologically active molecules [7–10] using some of the green pathway and considering the above urgent need here it was thought worthwhile to develop better synthetic protocol by carrying the cyclocondensation of multicomponents, aromatic aldehydes, ethylacetoacetate and phenyl hydrazine under neat condition or in organic medium.

Keywords: Pyrazole Derivative.

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