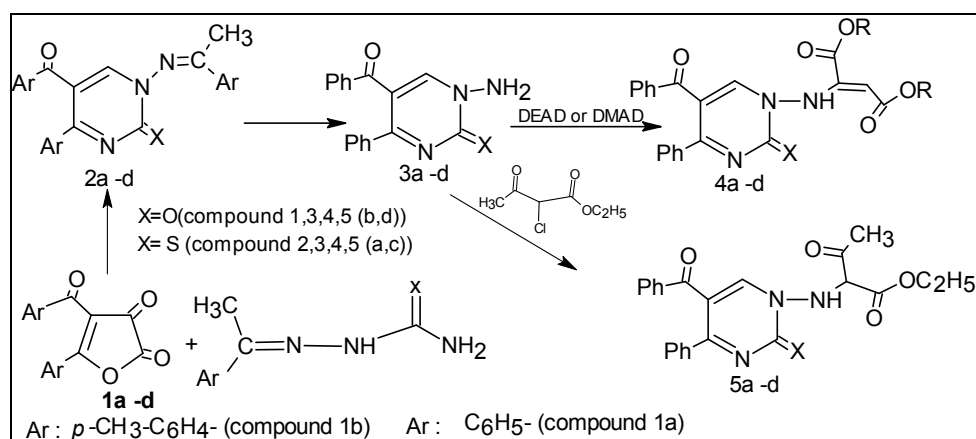


Investigation of Some Functionalization Reactions of 1-Amino-5-aryl-4-aryl-1H-pyrimidine-2-one/-thione Compounds with Dialkyl Acetylenedicarboxylates and Ethyl 2-chloroacetoacetate

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Pyrimidines in general have been found to be of much interest for biological and medicinal reasons, thus their chemistry has been extensively investigated. Some of these compounds have been shown to exhibit bactericide, antiviral and herbicide properties. In view of these important properties, we decided to extend our investigations related to preparing new heterocycles, which include the pyrimidine ring in their structure. Herein, we report the first synthesis of N-acyl pyrimidine derivatives 3a-d, 4a-d from the reaction of some 1-amino-5-aryl-4-aryl-1H-pyrimidine-2-one/-thione 3 with dialkyl acetylenedicarboxylates and ethyl 2-chloroacetoacetate.



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