

Organic synthesis, viewed as a youthful science, is a powerful tool for several other disciplines such as biology, physics, material science and medicine. The contribution of organic chemistry to the development of scientific medicines came mainly from acyclic and carbocyclic compounds. The search for the compounds with chemical structure which exhibit pharmacological activity is a difficult task for the chemists. In continuation of our interest on the application of [morH][HSO<sub>4</sub>] for the development of useful synthetic methodology. Therefore, we have made an attempt to synthesize 1,8-dioxo-octahydroxanthene, DiBenzoxanthene derivatives, and 14-aryl-14H-dibenzo[a,j]xanthenes. We performed the acylation of alcohols, thiols, phenols and amines using acetic anhydride in the presence of catalytic amount of morpholinium bisulfate. We have also carried out Triethylammonium acetate catalyzed organic transformations and Starch sulfuric acid catalyzed organic transformations in this attempt by the easy and economical and simple work up.

Synthesis, Development of Heterocycles

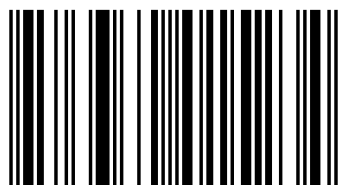


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# Studies on the Synthesis of Heterocyclic Compounds

Development of New Heterocycles

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