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Studies on the Reactions of 4-Ethoxycarbonyl-5-phenyl-2,3-dihydro-2,3-furandione with Some NH Nucleophiles

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Abstract: 4-Ethoxycarbonyl-5-phenyl-2,3-dihydro-2,3-furandione 1 was reacted with o-phenylenediamine, substituted ureas and methylcarbamate or acetamide to give quinoxaline 2, pyrimidine 3 and benzoylmalonic acid 4 derivatives, respectively. Benzoylmalonic acid derivative 4a was converted into a new oxozinedione derivative, 5, by refluxing its solution in xylene containing a catalytic amount of p-toluene sulfonic acid. In addition, triphenylpyrazole carboxylic acid derivative 6 was obtained from the reaction of 4a with diphenylhydrazine.

Key Words: Cyclic oxalyl compounds, quinoxaline, pyrimidine, benzoylmalonic acid, oxazine, pyrazole carboxylic acid.

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