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Synthesis of Novel Proponohydrazides and Their Hydrolysis Reactions

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Abstract: 4-(4-Methoxybenzoyl)-5-(4-methoxyphenyl)-2,3-furandione 1 reacted with N-aryl substituted phenylhydrazones 3a-h via the p,p'-dimethoxydibenzoylketene intermediate 2 giving the proponohydrazide derivatives 5a-h. In addition, compounds 5a-h were converted into corresponding pyrazolone derivatives 7i,j by the reactions of hydrolysis in acidic solution. The structures of these new synthesized compounds were determined by ¹³C NMR, ¹H NMR and IR spectroscopic data and elemental analysis.

Key Words: Furan-2,3-dione, Proponohydrazide, Hydrolysis, Pyrazolone

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