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Synthesis And Characterization Of Novel Series Of 3(2- Aryl Methylidene Hydrazinyl) - 2h-Chromene-2-One

Ratnesh Das* and Shweta Saxena

*Department of Chemistry, Dr. Harisingh Gour Central University, Sagar (M.P.) 470003, **INDIA**

Email: ratnesh_das1@yahoo.co.in

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ABSTRACT

A novel series of 3(2-aryl methylidene hydrazinyl)-2H-Chromene-2-one (4f-ad) were synthesized. Condensation of salicylaldehyde(5a) with Dimethyl malonate(5b) in the presence of a base (piperidine) gave 2-oxo-2H-chromen-3-yl-acetate (4f-ab) while (4f-ab) further react with hydrazine hydrate gave 3-hydrazinyl 2H-Chromene-2-one(4f-ac). Condensation of (4f-ac) with aromatic aldehyde gave 3(2-aryl methylidene hydrazinyl)-2H-Chromene-2-one(4f-ad). The structures of the newly synthesized compounds were confirmed by their spectra data of IR, ¹H-NMR.

Keywords: Coumarin, methylidene hydrazinyl, Pechmann condensation.
