



International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555

Vol.10 No.9, pp 73-78,2017

Synthesis and Characterization of Bis-Pyrazoles Using 1-(5-Methyl Pyridine-2-yl) Pyrrolidine-2,5Dione Under Microwave **Irradiation**

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Abstract: The current study shows that the green and efficient synthesis of new series of bispyrazoles derivatives from 1-(5-methyl pyridine-2-yl) pyrrolidine-2,5dione under microwave irradiation. The 1-(5-Methylpyridin-2-yl) pyrrolidine-2,5-dione, was synthesized from succinic anhydride and 5-methyl pyridine-2-amine. This cyclic imides condensed with substituted aromatic aldehydes using solid support neutral Al₂O₃in microwave. The resulting bis-chalcone derivatives underwent ring closer with hydrazine hydrate in presence of neutral Al₂O₃ under microwave irradiation offerdedbis-pyrazoles derivatives.

Keywords: Succinic anhydride, 5-methyl pyridine-2-amine, bis-chalcone, bis-pyrazole.

S.S.Rajput *et al*/International Journal of ChemTech Research, 2017,10(9): 73-78.

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