



Green Chemical Approach to Synthesize 1-(N-Substituted Aniline Malonyl)-3,5-Dimethyl-4-(3,4-Difluoro Phenyl Azo) Pyrazoles and Their Antimicrobial Evaluation

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ABSTRACT

Green synthesis of 1-(N-substituted aniline malonyl)-3,5-dimethyl-4-(3,4-difluoro phenyl azo) pyrazole by condensing 2,4-diketo-3-(3,4-difluoro phenyl azo) pentane with a number of N-(substituted) phenyl malonamic acid hydrazides under microwave irradiation conditions compared to the classical heating. Anti-microbial studies of synthesized pyrazoles were also carried out.

Keywords: Green chemistry, Microwave irradiation, Classical heating, Substituted pyrazoles, Substituted malonamic acid hydrazides, Anti-microbial activity.
