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Nano Nickel-Zinc Ferrites Catalysed One-Pot multicomponent Synthesis of B-Acetamidoketones Derivation Microwave Irradiation

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Abstract : Nano Nickel-Zinc Ferrite is a heterogeneous catalyst for the synthesis of one-pot multi component by a different aro β -acetamido ketones aromatic aldehydes, acetophenone and acetyl chloride in acetonitrile under microwave conditions. The present methodology offers several advantages such as good yield, short time reaction, non toxic, environmentally benign, mild reaction conditions and recyclable catalyst.

Keywords : Multicomponent reaction, Nano Nickel-Zinc Ferrites, β -acetamidoketones , Microwave Irradiation, heterogeneous catalyst, Reusable.

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