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Synthesis of (*E*)-4-nitro-5-phenylpent-4-en-2-one derived from Baylis–Hillman Adduct

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Abstract : Development of a new protocol for the preparation of (*E*)-4-nitro-5-phenylpent-4-en-2-one *via* Friedel-Crafts reaction using Baylis-Hillman adducts. The Friedel-Crafts reaction of the Baylis-Hillman adducts derived from nitroolefins mediated by concentrated acetic anhydride thus providing a simple synthesis (*E*)-4-nitro-5-phenylpent-4-en-2-one derivatives. This methodology also opens new opportunity to make library of compounds.

Keywords : Baylis-Hillman adducts, paraformaldehyde imidazole and anthranilic. (*E*)-4-nitro-5-phenylpent-4-en-2-one.

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