

Synthesis and characterization of novel 5H-benzo[e]pyrrolo[1,2-a][1,4]diazepin-10(11H)-yl)(4-(1-methyl-1H-pyrazol-5-yl)phenyl)methanone

M. MALATHI¹, D. PRABHAKARA CHARY*

¹ Department of Chemistry, Institute of Aeronautical Engineering, Dundigal , Hyderabad-500043.

*Department of Physical Sciences, Kakatiya Institute of Technology & Science- Warangal-506015

Corrsponding author:

dpcnkd@gmail.com

Abstract

A simple and efficient method was developed to synthesize 5H-benzo[e]pyrrolo[1,2-a][1,4]diazepin-10(11H)-yl)(4-(1-methyl-1H-pyrazol-5-yl)phenyl)methanone from Pyrrole-2-carboxaldehyde and 1-(chloromethyl)-2-nitrobenzene as starting materials. A reagent tertbutoxybis(dimethylamino)methane (Bredereck's reagent, TBDMAM) used for selective formation of chalcones. All the synthesized compounds were well characterized by elemental analysis, IR, ¹H, ¹³C nmr and mass analysis.