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powder X-ray diffraction (XRD) analysis. The functional group ... infrared (FT-IR) analysis. The morphology of the sample consists of particle-like rod shaped nanostructures and purity of the samples was confirmed by Scanning electron microscope (SEM) with energy dispersive X-ray (EDX) analysis and high-resolution transmission electron microscope (HR-TEM) analysis. The optical and electronic properties were confirmed by the ultraviolet visible absorption spectroscopy (UV-vis spectra) and photoluminescence (PL) spectroscopy. The magnetic properties were studied by vibrating sample magnetometer (VSM) analysis. The nanoparticle chemical bonding were studied by Raman spectroscopy. Thermal properties of the samples were studied by Thermogravity analysis and Differential scanning calorimetry (TGA/DSC). Electro chemical properties of $CaMoO_4$ nano particle was studied by Cyclic Voltammetry (CV).

Keywords: *Nanoparticles; $CaMoO_4$ Combustion method; Optical properties; Magnetic properties and Cyclic voltammetry .*

PP 177

An Expedient One-Pot, catalyst free Synthesis of 2-amino-6-morpholino-4-*p*-tolylquinoline 3-carbonitrile

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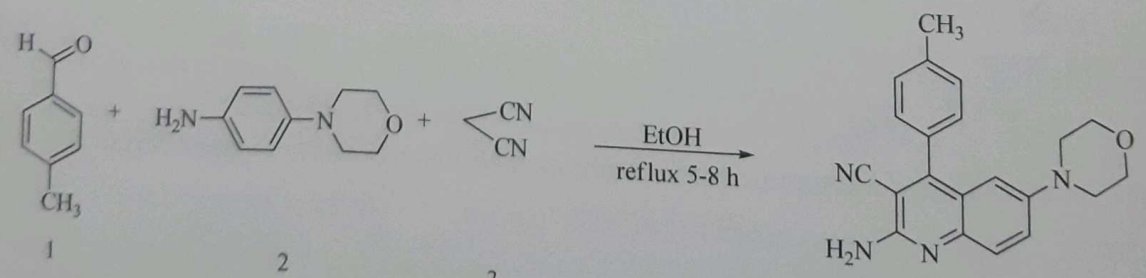
Abstract

Quinolines constitute an important class of heterocycles and several methods have been reported for their synthesis since 1800s. The quinoline ring system is present in a number of natural and synthetic products often endowed with interesting pharmacological and physical properties. The quinoline ring system exists in natural products, especially alkaloids, and much attention has still been paid to the synthesis of quinoline derivatives because of their pharmacological properties. Especially, the quinoline skeleton is found in many substances with industrial applications or biological activity.

An Expedient One-Pot, catalyst free reaction of appropriate aromatic aldehyde, morpholine amine , malononitrile in ethanol afforded 2-amino-6-morpholino-4-p-tolylquinoline-3-carbonitrile in good yield. The reaction proceeds *via* a condensation, elimination, addition, cyclization, dehydrogenization mechanism.



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Keywords: *Quinoline; one pot; malononitrile and aromatic aldehyde.**
