



Eco-friendly Synthesis and characterization of some (2-pyrazoline) and (2-isoxazoline) containing anthracene moiety by using PEG(400) as a Catalyst

Asha Lavania *, Kiran Dasary, Manju Yadav and Anita V K Anand

*Department of chemistry, School of chemical sciences, St. John's College, Agra, 282002 **INDIA**

Email: ashalavania@gmail.com

Received on 10th September and finalized on 11th September 2013.

ABSTRACT

A series of substituted chalcones (2 a-d) were synthesized and used to prepare some new five membered heterocyclic compounds (pyrazoline) (3 a-d) by their condensation with hydrazine hydrate and (Isoxazolines) (4 a-d) by their condensation with hydroxylamine hydrochloride. The synthesized compounds were characterized by using FTIR, ¹H NMR and mass spectra, C.H.N. analysis. The validity of the expected chemical compounds to the prepared compounds in this search was obvious from FTIR spectra and C.H.N. results.

Keywords: Chalcones, Pyrazoline, Isoxazoline, 9-acetyl anthracene, Aromatic aldehydes, Aqueous NaOH, PEG (400).
