



Synthesis of some Novel N-Substituted Aromatic Amines

Pritesh R. Jain and A. A. Patil*

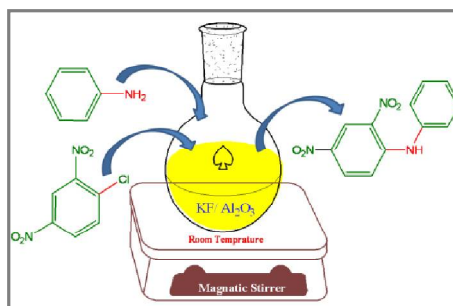
P. G. Research Centre, JET's Z.B. Patil College, Dhule, K.B.C. North Maharashtra University, Jalgaon, **INDIA**
Email: patilashok567@gmail.com

Accepted on 30th March, 2019

ABSTRACT

In this research work basic KF/Al_2O_3 catalyst being used in the N- arylation of various aromatic/aliphatic amines or N- heterocycles with aryl halides to produce desired coupled product in the presence of simple basic catalyst without using external ligands or additives or promoters. These heterocycles are an important class of compounds and are widely used as medicinal as analgesic drugs, antimalarial, antifungal and biological and N-heterocyclic catalyst chemistry. Some of the compounds have also been reported as antibacterial. N-Aryl heterocycles like imidazole, benzimidazole, benzotriazole and pyrazole are important core structure in many pharmaceutical drugs. Aromatic amines are organic nitrogen containing compounds that may be considered derivatives of ammonia with at least one of the hydrogen atoms replaced by an aryl group. The nitrogen must be react directly to the aromatic ring and so be able to interact with the aromatic p-electron system. Characterization done of synthesized products by analytical technique such as 1H -NMR, ^{13}C -NMR and antimicrobial analysis. The resulting compounds possess symmetrical structures and have high yields.

Graphical Abstract



Keywords: 2,4-dinitrochlorobenzene, Heterocycles, Antimicrobial analysis, Basic aluminumoxide.