



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.6,pp1145-1149,2017

An efficient synthesis of Benzimidazole derivatives by using Metaltriflate catalyst in an aqueous media

Raju Kagne¹,Virbhadra Kalalawe² and Dashrath Munde^{3*}

¹Department of Chemistry, Willingdon College, Sangali-416415,MH, India

²Department of Chemistry, YogeshwariMahavidyalaya, Ambajogai - 431517, MH, India

³Department of Chemistry, N.E.S. Science College, Nanded – 431605.MH, India

Abstract:Copper (II) Trifluoro-methane-sulfonate efficiently catalysed the synthesis of benzimidazoles and derivatives from o-phenyldiamine and substituted aldehydes in an aqueous media as a green solvent at reflux condition. This method provides a novel and efficient route for the synthesis of benzimidazole and benzthiazole derivatives in good to excellent yields with catalytic amount of Cu(OTf)₂.

Keywords:Metal Triflate, o-phenyldiamine, benzaldehyde, reflux.

RajuKagne *et al*/International Journal of ChemTech Research, 2017,10(6): 1145-1149.
