Microwave assisted regeneration of carbonyl compounds from their oximes using copper nitrate over TBAB.

Priti Sharma\*, Anju, Rashmi and Dr. S. K. Dewan

Department of Chemistry, M. D. University, Rohtak, Haryana, India

e-mail: priti.sharmachem@gmail.com

New eco-friendly and efficient method have been developed for the deoximation of various aldoximes, ketoximes and oximes of some sterically hindered compounds under solvent free conditions using microwave irradiations and new catalytic system such ascopper nitrate [Cu(NO3)2.3H2O] over tetrabutylammonium bromide (TBAB). Moderate to high yields of carbonyl compounds were obtained of the corresponding oximes when deoximated in the presence of above proposed catalytic system. The products were identified on the basis of comparison of their melting points**/**boiling points and spectroscopic data: 1H-NMR, 13C-NMR and FT-IR with those of the authentic samples.



**Keywords:** Cu(NO3)2.3H2O, TBAB, Aldehydes, Ketones, Steroids, Deoximation, Dry-media, Micro wave irradiations.

**Thrust area**: Microwave assisted synthesis

**Preferred** Poster Presentation