

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

Fast Oxidation of Lactams to Cyclic Imides Using Microwave Irradiation

Avat Arman TAHERPOUR, Hamid Reza MANSURI
Chemistry Department, Graduate Faculty, Islamic Azad University,
P. O. Box 38135-567, Arak-IRAN
e-mail: avat₁@Yahoo.co.uk

 [Keywords](#)
 [Authors](#)

Abstract: Since polar reactants can adsorb microwave irradiation, chemists can utilize the microwave oven for some organic reactions. In this paper, we report a rapid conversion of lactams to cyclic imides using peracetic acid ($\text{CH}_3\text{-CO}_3\text{H}$) and manganic chloride (MnCl_2) in ethyl acetate ($\text{CH}_3\text{-COOEt}$) as a solvent and under microwave irradiation (90 W, 5 min) in good yields.

Key Words: Oxidation, Lactams, Cyclic imides, Microwave irradiation, Peracetic acid



chem@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Turk. J. Chem., **29**, (2005), 317-320.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem., vol.29, iss.3.](#)