Synthesis of Some Novel Imidazopyrazole and Pyrazolopyrimidine Derivatives

A.M. Soliman*, A.A. Sultan, M. Abdel-Aleem, H. Abdel-Ghany

Chemistry Department, Faculty of Science, Sohag University, Sohag, Egypt

Abstract: Compound 1 was alkylated with various halo reagents under phase transfer conditions to give the corresponding imidazopyrazole derivatives 2a-c,6. Pyrazolo[1,5-a]pyrimidine derivatives 11-14 were prepared by treating compound 1 with different dicarbonyl reagents namely diethylmalonate, ethyl 3-oxo-3-phenylpropanoate, pentane-2,4-dione or ethyl 3-oxobutanoate.

Keywords: Pyrazolopyrimidine, Imidazopyrazole, dicarbonyl reagents

*Corresponding: E-mail: a_sol2000@yahoo.com; Tel: +20124364616, Fax: +20934601159

This paper has been presented at 11-ICCA, 20-22.11.2010, Luxor-EGYPT