

ABSTRACT

In this work a study has been made to compare the addition reactions of various α -diazacetophenones with various cinnamic esters. No rigorous degassing or sophisticated photolytic equipment was used. The principal object was to provide easy synthetic routes to a class of similar compounds. The relative reactivity and the various physical and other data has been noted for the compounds prepared. These provide an interesting feature of the work embodied here. The work also includes similar types of reactions with some other diazoketones diazomethane. The catalytic effect of the carbene additions with some metal ions, rearrangements of the cyclopropane compound, intramolecular reactions have also been attempted. Although it has not been possible as yet to make a comparative study of the shift data from cmr and the benzylic proton in pmr with various substituent constants the comparison of the UV absorption gives a linear relationship analogous to that obtained by simple Hammett equation.