
Abstract

A comparative study of the stereochem. behavior of the 1,3-dipolar cycloaddn. of 1,2-disubstituted alkenes with 1-pyrroline 1-oxide (I) and 2,3,4,5-tetrahydropyridine 1-oxide (II) has been carried out. Both the nitrones exhibit very similar stereochem. properties. Rate consts. for the cycloaddn. of these nitrones to disubstituted alkenes have been detd. at 36° by 1H NMR. I reacts slower than II due to the presence of bond eclipsing strain in the transition state involving I.