

# 1,3 Dipolar cycloaddition reactions of 1-aza-1-cyclooctene 1-oxide

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## ABSTRACT

The stereochem. and reactivity of the cycloaddn. reactions of eight-membered cyclic nitron (I) with several alkenes have been studied. The concd. soln. of the cyclic nitron undergoes polymn. to give acyclic polynitron (15). The nitron I is found to be less reactive than its seven-membered counterpart. Barrier to nitrogen inversion in one of the cycloaddn. product, a 8/5 fused ring system, was detd. to be 55.4 kJ/mol.

