

*The Stereochemistry of 1,3-dipolar cycloaddition of internally H-bonded
chiral methylenenitrones*

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ABSTRACT

A study of diastereoselectivity in the cycloaddn. reactions of a series of mono- and disubstituted alkenes with two chiral, internally H-bonded methylenenitrones has been carried out. The high degree of stereochem. control in the presence of anhyd. magnesium bromide has been explained in terms of a metal chelated transition state. Intramol. cycloaddn. involving a methylenenitronone contg. an alkene moiety linked to a nitrogen gave a stereoselective addn. product.