

Cyclic nitrene-ethene cycloaddition reactions

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ABSTRACT

Addn. reactions of ethene onto several cyclic nitrenes afforded [n.3.0]heterobicycloalkanes devoid of any substituents in the ring skeleton. These fused ring systems with a bridgehead nitrogen, capable of undergoing nitrogen inversion, allowed us to det. the stereochem. of the ring fusion and the thermodyn. stability of the cis, trans isomers. Some of the cycloadducts on peracid induced ring opening gave a new series of nitrenes capable undergoing further cycloaddn. reactions.