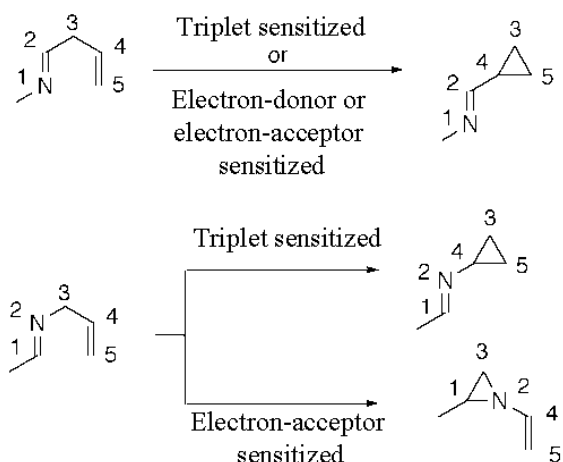


## aza-di- $\pi$ -methane rearrangement

*Photochemical reaction* of a 1-aza-1,4-diene or a 2-aza-1,4-diene in the *triplet excited state* to form the corresponding cyclopropylimine. Note: The rearrangement formally amounts to a 1,2-shift of the imino group and “bond formation” between the C(3) and C(5) carbon atoms of the azadiene skeleton. 1-Aza-1,4-dienes also undergo the rearrangement to cyclopropylimines using electron-acceptor and electron-donor *sensitizers* via radical-cation and radical-anion intermediates, respectively. 2-Aza-1,4-dienes rearrange to *N*-vinylaziridines on irradiation using electron-acceptor sensitizers. In this instance the reaction amounts to a 1,2-shift of the alkene unit and “bond formation” between the C(1) and C(3) carbon atoms of the azadiene skeleton.



See also *di- $\pi$ -methane rearrangement*, *di- $\pi$ -silane rearrangement*, *oxa-di- $\pi$ -methane rearrangement*.

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