

photocycloaddition

Intermolecular photochemical process leading to carbo- or hetero- cyclic ring systems by formation of two new single bonds, either by a concerted process (e.g., a concerted addition) or by multi-step processes (e.g., the Paternò–Büchi reaction).

Note:

Triplet state photocycloadditions are two-step processes involving the formation of diradical intermediates.

Source:

PAC, 2007, 79, 293 (*Glossary of terms used in photochemistry, 3rd edition (IUPAC Recommendations 2006)*) on page 388