

alkene photocycloaddition

Photochemical process leading to formation of a cyclobutane upon addition of an electronically excited alkene to another ground-state alkene or of an electronically excited α,β -unsaturated carbonyl compound to a ground-state alkene. The latter is called a *de Mayo reaction*.

Note:

A special case of photocycloaddition is a photodimerization.

Source:

PAC, 2007, 79, 293 (*Glossary of terms used in photochemistry, 3rd edition (IUPAC Recommendations 2006)*) on page 301