

aromatic photocycloaddition

Inter- and intramolecular *photochemical processes* involving the addition of a C–C double (or triple) bond to (i) to the 1,2-positions of an arene in which case it is called an *ortho photocycloaddition*, with formation of a benzocyclobutene (or a benzocyclobutadiene) derivative, (ii) to the 1,3-positions of an arene in which case it is called a *meta photocycloaddition*, with formation of tricyclo[3.3.0.0^{2,8}]oct-3-ene (or octa-3,6-dien) derivatives, or (iii) to the 1,4-positions of an arene in which case it is called a *para photocycloaddition*, with formation of bicyclo[2.2.2]oct-2-ene (or octa-2,5-dien) derivatives.

Source:

PAC, 2007, 79, 293 (*Glossary of terms used in photochemistry, 3rd edition (IUPAC Recommendations 2006)*) on page 303