**photodecarbonylation**

Photoinduced extrusion of carbon monoxide (CO).

Notes:
1. Typical example is the Norrish Type I photoreaction, in which, after production of the diradical upon photoinduced α-cleavage, CO is eliminated. This reaction has been widely exploited for the production of radicals in crystals, as well as for the synthesis of cyclic compounds.

   ![Diagram](image)

   - $\text{R}_1\text{R}_2\text{C}=\text{O} \xrightarrow{\text{hv}} R_1^\cdot R_2^\cdot \xrightarrow{\text{decarbonylation}} R_1^\cdot R_2^\cdot \xrightarrow{\text{CO}} \text{Radical Products}$

2. Another example is the photodecarbonylation of alpha-aryl aldehydes.

Source: