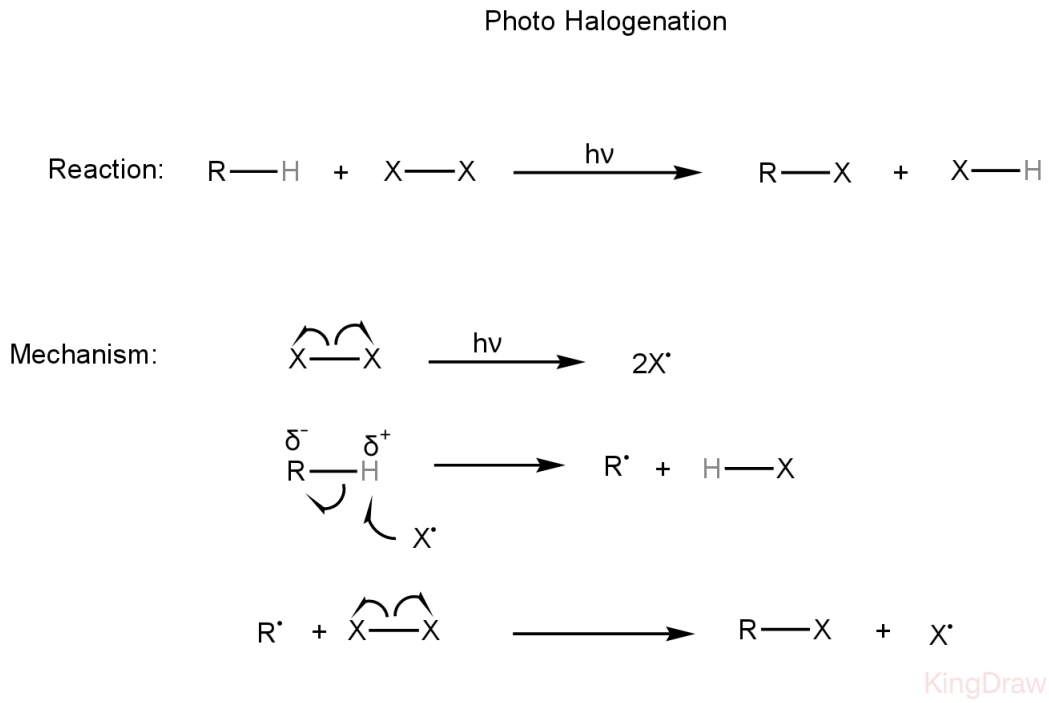
Photo Halogenation

1 Reaction and Mechanism



2 Reaction Observations

i. $C^{\bullet}$ obtained as intermediate.

ii. Example of $C^{\bullet}$ substitution reaction.

iii. Kinetic isotopic effect is observed.

iv. Example of Oxidation reaction.

v. Formation of $C^{\bullet}$ is RDS.

vi. $ROR \propto$ *Stability of* $C^{\bullet}$

vii. ROR for X_2, $F_2 > Cl_2 > Br_2 > I_2$