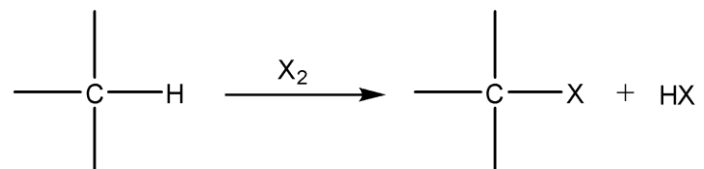


### What is halogenation of alkanes reaction?

Halogenation of alkanes is a type of chemical reaction in which one or more halogen atoms (chlorine, bromine, or iodine) are added to an alkane molecule. The reaction is done in the presence of light or UV radiation, where a photochemical process is involved.

The general equation for the halogenation of an alkane is:



Halogenation of alkanes is a powerful method for the synthesis of alkyl halides and is used in the production of many industrial and consumer products, including solvents, pesticides, and pharmaceuticals.