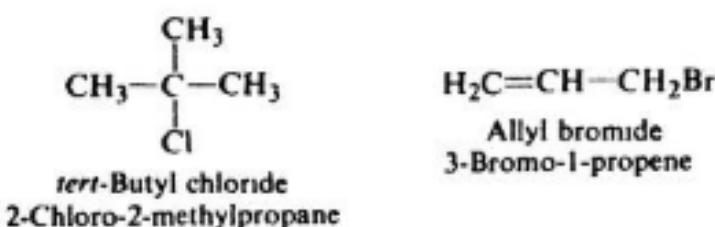


Alkyl halides

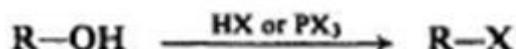
14.1 Structure and nomenclature

We shall consider as alkyl halides all compounds of the general formula R—X, where R is any simple alkyl or substituted alkyl group. For example:

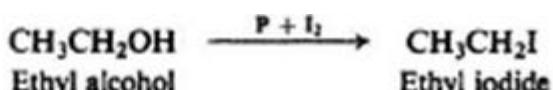
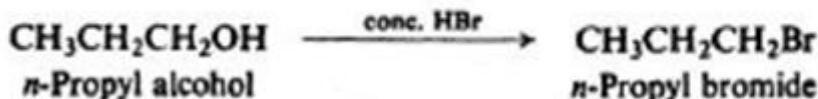


PREPARATION OF ALKYL HALIDES

1. From alcohols.



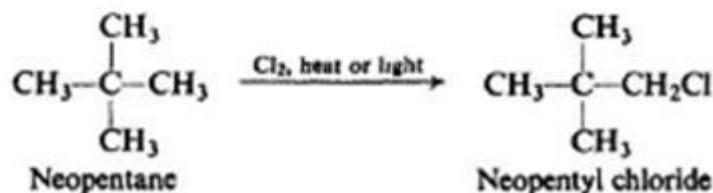
Examples:



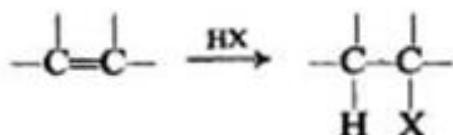
2. Halogenation of certain hydrocarbons.



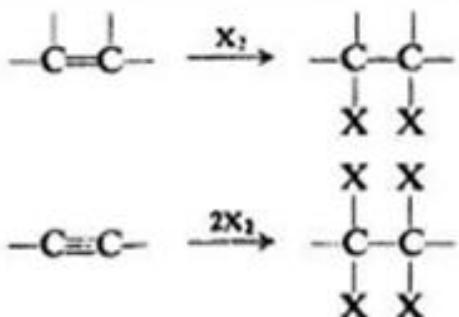
Examples:



3. Addition of hydrogen halides to alkenes.



4. Addition of halogens to alkenes and alkynes

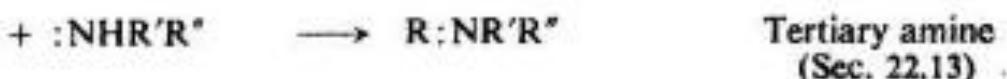
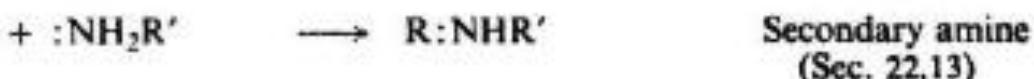
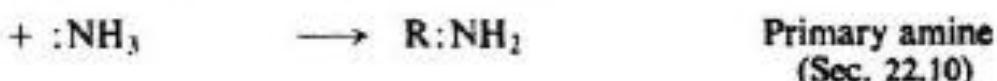
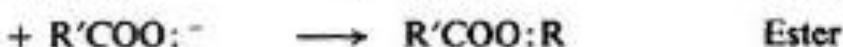
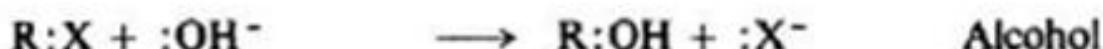


5. Halide exchange. Discussed in Sec. 14.4.

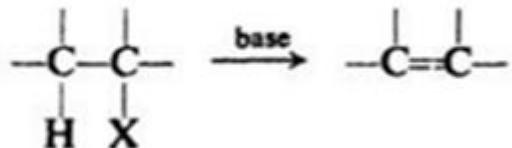


REACTONS

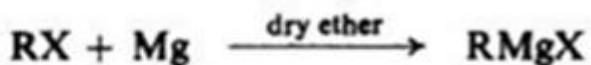
1. Nucleophilic substitution



2. Dehydrohalogenation: elimination.



3. Preparation of Grignard reagent.



4. Reduction.

