

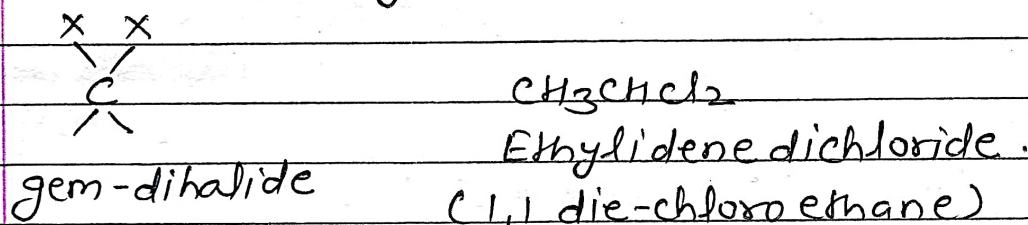
- Nomenclature of Haloalkanes and Haloarenes :-

(i) Naming haloalkanes. (Mono)

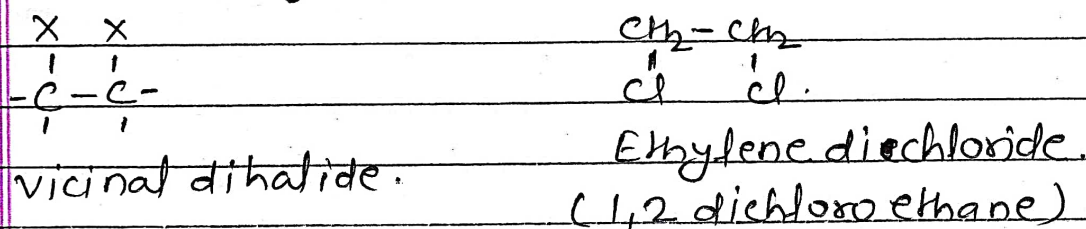
	Common Name	I.U.P.A.C.
CH_3Cl	Methyl chloride	chloromethane
$\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$	n-Propyl Bromide	Bromo Propane.
$\text{CH}_3-\underset{\text{CH}_3}{\text{CH}}-\text{CH}_2\text{Cl}$	iso-butyl chloride.	1-chloro-2-methyl-propane.
$\text{CH}_3-\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}}-\text{CH}_2\text{Cl}$	neo-pentyl chloride.	1-chloro, 2,2-dimethyl-propane.

(ii) Dihalo and Polyhalo

(a) When both the halogen atoms are attached to the same C-atom, these are called gem-dihalides. These are also called alkylidene dihalides.



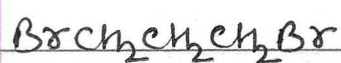
(b) When the two halogen atoms are in adjacent C-atoms they are called vicinal dihalides. These are also called alkylene dihalide.



(c) Poly methylene dihalide :-

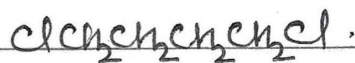
When the same two halogen atoms are present on the

terminal Carbon atoms. They are called Poly methylene dihalide



Trimethyl dibromide.

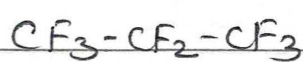
(1,3 diebromo propane)



Tetramethyl dichloride.

(1,4 dichloride butane)

- Fully halogenated hydrocarbons are called perhalohydrocarbons.

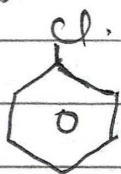


perfluoropropane

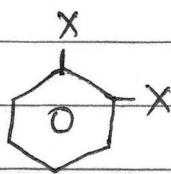
octafluoropropane.

- Naming haloarenes (or aryl halides) :-

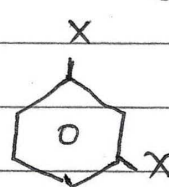
Haloarenes or aryl halides are named by adding the prefix halo before the name of the aromatic hydrocarbon.



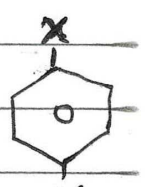
chlorobenzene



ortho dihalobenzene.



(meta)



(para)