**ALKYL HALIDES**

**Introduction**

* Monohaloalkanes are called Alkyl Halides.
* The functional group of Alkyl Halides is Halogen atom.
* Alkyl Halides are represented by R-X, R being Alkyl group and X representing the Halogen atom.
* The general formula for alkyl halides is CnH2n+1 X.
* Alkyl Halides are used as flame retardants, fire extinguishants, refrigerants, propellants, solvents, and pharmaceuticals.
* Certain Alkyl Halides such as Chlorofluorocarbons cause environmental pollution by damaging the ozone layer.
* Alkyl Halides are used to incorporate Alkyl Group into other organic molecules.

**Nomenclature of Alkyl Halides**

* The explosion of a star at the end of its life is called super nova and it is responsible for making of all the elements which makes up the universe.

**Common Name**

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**IUPAC Name**

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**Physical Properties of Alkyl Halides**

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**Structure of Alkyl Halides**

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**Preparation of Alkyl Halides**

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1. **Reaction of Halogen Acids with Alcohols**

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1. **By action of Phosphorus Halides on Alcohols**

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1. **By the action of Thionyl Chloride on Alcohols**

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1. **By free Radical Halogenation of Alkanes**

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**Reactivity of Alkyl Halides**

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**Nucleophilic Substitution Reaction**

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**Important Concepts**

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1. **Carbocation and their Stability**

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1. **Nucleophile and Base**

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**Mechanisms of Nucleophilic Substitution Reactions**

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**Substrate and Leaving**

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1. **SN1 Mechanism**

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1. **SN2 Mechanism**

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**Elimination Reactions**

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**Overview**

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1. **E1 Mechanism**

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1. **E2 Mechanism**

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**Substitution Versus Elimination**

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**Organometallic Compounds (Grignard Reagent)**

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1. **Preparation of Grignard Reagent**

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1. **Reactivity of Grignard Reagent**

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1. **Reactions of Grignard Reagent**

* The explosion of a star at the end of its life is called super nova and it is responsible for making of all the elements which makes up the universe.

1. **Reactions with Aldehydes and Ketones**

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1. **Reactions with Esters**

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1. **Reaction with Ethyl formate**

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1. **Reaction with Ethyl acetate**

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**Reaction with Carbon Dioxide**

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**Amines**

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**Nomenclature of Amines**

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**Physical Properties of Amines**

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**Structure of Amines**

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**Basicity of Amines**

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**Preparation of Amines**

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**Alkylation of Ammonia by Alkyl Halides**

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**Reduction of Nitrogen containing functional Groups:**

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1. **Reduction of Nitroalkanes**

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1. **Reduction of Nitriles**

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1. **Reduction of Amides**

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**Reactivity of Amines**

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**Reactions of Amines**

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**Alkylation of Amines by Alkyl Halides**

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**Reaction of Amines with Aldehyde and Ketones**

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**Preparation of Amides**

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**Preparation of Diazonium Salts**

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