

CHAPTER 02

Acids, Bases and Salts

Sodium hydroxide and bleaching powder:**Sodium hydroxide (NaOH):**

Sodium hydroxide is obtained from sodium chloride solution. 10% solution of water is known as brine solution. When electricity is passed through brine solution, it will undergo dissociation to give sodium hydroxide.



Hydrogen gas is liberated at cathode, chlorine gas is liberated at anode and sodium hydroxide can be collected from bottom of chamber. This process is known as chlor - alkali process and will be carried out in Castner Kellner cell.

Bleaching powder (CaOCl_2):

This is also Known as calcium oxychloride. Bleaching powder is obtained by action of chlorine gas on dry slaked lime (Ca(OH)_2).

Uses:

Bleaching powder is used for,

- Bleaching of fabric like linen, cotton in textile industry.
- Bleaching of wood pulp in paper industry.
- As oxidizing agent in chemicals.
- Sterilization of water to kill germs.
- Removal of colouring matter.

