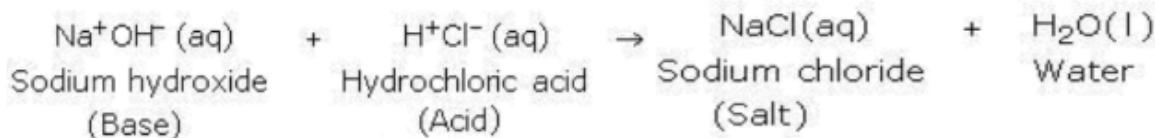


## Topics: Acids, Bases and Salts

## **Subtopics:More about Salts**

## Salts

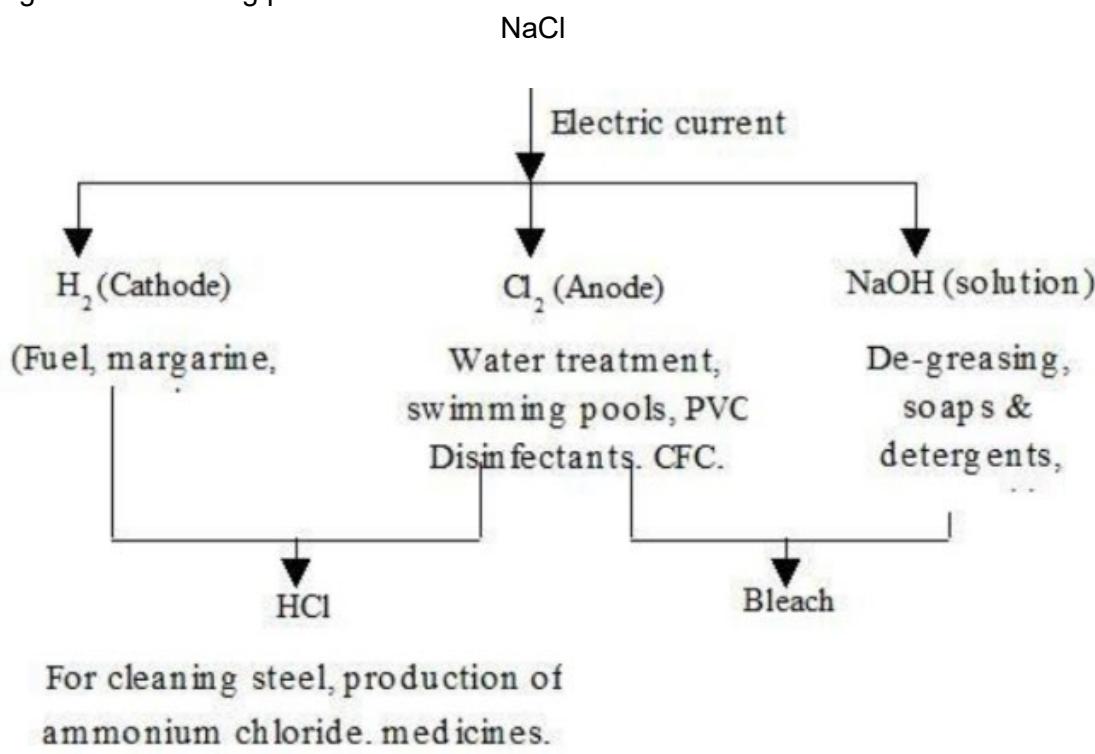
Salts are obtained by treating an acid with a base. Salts consist of both positive ions or 'cations', and negative ions or 'anions'.



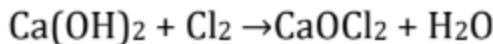
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## Sodium Chloride

Sodium chloride is the commonly available salt and so is called common salt. Electrolysis of brine gives the following products:



- **Bleaching powder →  $\text{CaOCl}_2$**
- **Preparation-**

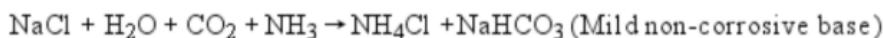


- **Use -**

Bleaching of  $\left\{ \begin{array}{l} \rightarrow \text{cotton in textile industry} \\ \rightarrow \text{wood pulp} \\ \rightarrow \text{Clothes in laundry} \end{array} \right.$

**Baking soda -**  $(\text{NaHCO}_3)$  Sodium hydrogen carbonate

- **Preparation -**



- **Use -**

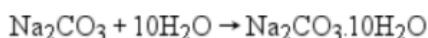
Making baking powder (Baking soda + Mild acid, like tartaric acid)

Ingredient for antacids

Soda-acid fire extinguisher

**Washing soda -**  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

- **Preparation-**



- **Use -** In glass, soap, paper industries

Making sodium compounds such as borax

As domestic cleaning agent

- **Removing permanent hardness of water**

- **Water of crystallisation :** It refers to a fixed number of water molecules present in one formula unit of salt.

- **Example -** In gypsum, the water of crystallisation is 2.

