SODIUM CHLORIDE: ESSENTIAL FOR LIFE

NaCl

Also called common salt or rock salt.It is used to manufacture lot of salts

NaOH

Chlor- alkali process.

(on passing electricity)

$NaCl + H_2O \rightarrow NaOH + Cl_2 + H_2$

H_2 is used in fuels, ammonia for fertilizers

Cl_2 is used in water treatment,swimming pools

NaOH is used to make soaps and detergents.

To manufacture Bleaching powder-**$CaOCl_2$**

$Ca(OH)_2 + Cl_2 \rightarrow CaOCl_2 + H_2O$

Action of chlorine on dry slaked lime will give bleaching powder.

- Used in textile industry
- Oxidizing agent
- Disinfectant in water.

$NaHCO_3$

$NaCl + H_2O + CO_2 + NH_3 \rightarrow NH_4Cl + NaHCO_3$

Baking soda-$NaHCO_3$ is used –Ingredient in ant acids, in fire extinguishers, baking industry.

On Heating

$NaHCO_3 \rightarrow Na_2CO_3 + H_2O + CO_2$

Na_2CO_3

Recrystallization of sodium carbonate

$Na_2CO_3.10H_2O$

Washing Soda

$Na_2CO_3 + 10\ H_2O \rightarrow Na_2CO_3.10H_2O$

- Used in glass ,soap industry.
- Permanent hardness of water.
- Cleaning agent for domestic purposes.

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