

Electrolyte used in replacement therapy



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Sodium Chloride



MOP:

By evaporation of sea water



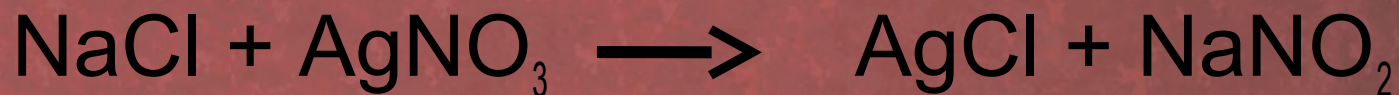
Physical Properties

- White crystalline powder
- Odorless
- Saline taste
- Soluble in water
- Insoluble in Ethanol
- Soluble in glycerin



Chemical reaction

1. When react with silver nitrate it gives silver chloride.



2. When react with potassium permagnate it evolve chlorine gas



Uses

- In treatment of Addison's disease
- Preparation of hypertonic solution
- Used in treatment of poisoning
- In dialysis fluid
- As a preservative
- Used in treatment sodium deficiency disorder
- Preparation of ringer solution



Storage

“ It should be stored in well closed container at a cool Place.”



Incompatibility

With silver, lead, mercury salts.



Official preparation of sodium chloride

- Sodium chloride injection I.P
- Sodium chloride hypertonic injection I.P
- Compound Sodium chloride injection I.P
- Bacteriostatic Sodium chloride injection I.P
- Sodium chloride & Dextrose injection I.P
- Sodium chloride & Mannitol injection I.P
- Sodium chloride tablets I.P
- Compound Sodium chloride & dextrose oral powder I.P

Potassium Chloride

KCl

MOP:

By mixing hydrochloric acid in potassium carbonate solution.



Physical Properties

- White crystalline powder
- Odorless
- Saline taste
- Soluble in water
- Insoluble in Ethanol
- Insoluble in Ether



Uses

- In treatment of hypokalemia (potassium deficiency disorder)
- Preparation of hypertonic solution
- Used in treatment of digitalis poisoning
- Used in treatment of myasthenia gravis



Storage

“ It should be stored in well closed container at a cool Place.”



Incompatibility

With silver, lead, mercury salts.



Official Preparation

- Potassium chloride injection I.P
- Potassium chloride oral solution I.P
- Potassium chloride elixirs I.P
- Lactated Potassium chloride saline injection NF
- Potassium chloride & Sodium chloride I.V Infusion I.P
- Potassium chloride & Dextrose I.V infusion I.P
- Potassium chloride & Glucose I.V infusion I.P
- Potassium chloride tablets I.P

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