

# Hydrogen Peroxide:-

1)Chemical formula:-  $\text{H}_2\text{O}_2$

2)Mol. Wt :-34.02

# properties

- Colour: colorless
- Odour:- odourless.
- Nature:- Clear liquid
- Taste :- slightly acidic
- Solubility:-. practically soluble in water, & in dil mineral acid it dissolves slowly in Hot  $\text{H}_2\text{SO}_4$

3 cont...

The Solution usually deteriorate upon standing upon agitation

Rapidly decomposes when in contact with many oxidizing or reducing sub.



Solution is stabilized by

- 1) By addition of small qty of acid & by adjusting the pH between 2 to 3.
- 2) Some Stabilizers like acetanilide, quinine, sulphate, 8-hydroxyquinoline & others complexing /chelating agents are used in 0.02 to 0.05% con range.

#### 4 **Uses**

- 1) The primary use is a mild oxidizing antiseptic. This action comes when it comes in contact with abraded tissue. It is a mild oxidizing antiseptic action the antiseptic action is associated with mechanical cleansing provides by rapid foaming release of oxygen. Helps in removal of dirt, bacteria from cuts & wounds & acts as cleaning antiseptic.
- 2) It destroy most pathogenic bacteria.
- 3) Its 1.6% solution is used as **deodorant, gargle and mouth wash.**
- 4) It is used as an **antidote in phosphorous and cyanide poisoning.**
- 5) It is used for **bleaching the hair.**
- 6) It is used in treatment as ear wash & vaginal douches.

## **Storage:-**

- It is stored in container protected from light, in bottles closed with glass stoppered or plastic caps provided with vent for the escape of oxygen.
- Keep in cool place.
- The label should indicate whether it contains stabilizing agent or not.