



Determination Of % Available Chlorine In Bleaching Powder

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57



Aim

To determine the available chlorine in the given sample of bleaching powder by the iodometric method.



Introduction

- ❖ Bleaching powder, also known as chlorinated lime
- ❖ yellowish-white powder having a smell of chlorine and is readily soluble in water
- ❖ It is prepared by passing chlorine gas over slaked lime at a temperature of 35-45° and consists of a mixture of calcium hypochlorite $\text{Ca}(\text{OCl}_2)$ and calcium chloride CaCl_2 , in addition some amount of free slaked lime i.e. $\text{Ca}(\text{OH})_2 \cdot \text{H}_2\text{O}$ is generally present
- ❖ $\text{Ca}(\text{OCl}_2)$ is responsible for the bleaching action of bleaching powder. On treatment with glacial acetic acid, it liberates chlorine gas (Cl_2) as per the following reaction.



- ❖ The amount of chlorine liberated by the action of an acid on bleaching powder (CaOCl_2) is termed as available chlorine. The chlorine content of bleaching powder varies from 35 – 40%.



- ❖ bleaching powder also have strong germicidal and disinfectant properties.
- ❖ It finds application as a disinfectant for drinking water or swimming pool water.

Determination Of Available Chlorine In Bleaching Solution

Izaak Maurits Kolthoff, Heinrich Menzel



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Philosophical Magazine, 1861 **Chemical News and Journal of Industrial Science**, 1861 Technical Bulletin British Paper and Board Makers' Association. Technical Section, 1936

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