

# SALT ANALYSIS

## SCHEME OF ANALYSIS

EXPERIMENT	OBSERVATION	INFERENCE
<b>PRELIMINARY EXAMINATIONS :</b>		
1) Noted the colour	Colourless	Absence of $\text{Cu}^{2+}, \text{Fe}^{2+}, \text{Fe}^{3+}, \text{Mn}^{2+}, \text{Co}^{2+}, \text{Ni}^{2+}$
	Blue	Pre. of $\text{Cu}^{2+}$
	Brown	Pre. of $\text{Fe}^{3+}$
	Green	Pre. of $\text{Ni}^{2+}$
	Pale pink	Pre. of $\text{Mn}^{2+}$
2) Noted the solubility a) In water b) In dil.HCl	a) Soluble and no ppt with $\text{Na}_2\text{CO}_3$ b) Insoluble	a) Pre. of $\text{NH}_4^+$ b) Pre. of $\text{Pb}^{2+}$
3) Flame Test : A little of the salt is made into paste with conc.HCl. A glass rod is dipped in it and introduced into the flame.	a) Blue surrounded by green b) Brick red c) Crimson red d) Bluish white e) Grassy green on prolonged heating	a) Pre. of $\text{Cu}^{2+}$ b) Pre. of $\text{Ca}^{2+}$ c) Pre. of $\text{Sr}^{2+}$ d) Pre. of $\text{Pb}^{2+}$ e) Pre. of $\text{Ba}^{2+}$
4) Ash Test : A little of the salt is heated with con. $\text{HNO}_3$ and cobalt nitrate solution. A filter paper is dipped in it and burnt.	a) Green ash b) Blue tinted ash c) Pale pink ash	a) Pre. of $\text{Zn}^{2+}$ b) Pre. of $\text{Al}^{3+}$ c) Pre. of $\text{Mg}^{2+}$
<b>SYSTEMATIC ANALYSIS OF ANIONS :</b>		
1) Dil. $\text{H}_2\text{SO}_4$ test : To the salt add dil. $\text{H}_2\text{SO}_4$ , warm if required.	a) Evolution of Colourless, odourless gas with brisk effervescence, turns limewater milky. b) Smell of vinegar	a) Pre. of carbonates  b) Pre. of acetate

# Cbse Salt Analysis Manual

**Mr. Rohit Manglik, Mr. Kaushalesh  
Dwivedi**

## **Cbse Salt Analysis Manual:**

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Development team for their efforts to create this wonderful book      **Practical/Laboratory Manual Chemistry Class - XI**  
Er. Meera Goyal, 2021-05-29

1 Basic Laboratory Techniques

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

Viva Voce

2 Characterisation and Purification of Chemical Substances

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- Viva Voce
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
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- 3 To prepare crystals of pure potash alum  $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$  from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample
- Viva Voce

3 Measurement of pH Values

- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid  $CH_3COOH$  of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion  $CH_3COO^-$  ion in case of weak acid  $CH_3COOH$
- 5 To determine the change in pH value of weak base  $NH_4OH$  in presence of a common ion  $NH_4^+$
- Viva Voce

4 Chemical Equilibrium

- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between  $Co(H_2O)_6^{2+}$  and  $Cl^-$  ions by changing the concentrations of either of the ions
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5 Quantitative Analysis

- 1 To prepare M 10 oxalic acid solution by direct weighing method
- 2 To prepare M 10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid
- 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution
- Viva Voce

6 Qualitative Analysis

Analysis of Anions

Analysis of Cations

Viva Voce

7 Detection of Elements in Organic Compounds

- 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test
- 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test
- Viva Voce

INVESTIGATORY PROJECTS

1 Checking of Bacterial Contamination in Water

- 1 To check the bacterial contamination in drinking water by testing sulphide ions
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2 Methods of Water Purification

- 1 To purify water from suspended impurities by using sedimentation
- 2 To purify water by boiling
- 3 To purify water by distillation method
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*Comprehensive Practical Chemistry XII* Dr. N . K. Verma, B. K. Vermani, Dr. Neera Verma, K . K. Rehani, 2011-11

**Chemical Student's Manual for the Lecture Room and Laboratory. Embracing-non-metals; the Analysis of Simple Salts, Etc** Herbert L. BUCKERIDGE, 1887

*Methods for Salt Analysis* Mr. Ajeet Singh, 2018-05-14

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