

SALT ANALYSIS

SCHEME OF ANALYSIS

EXPERIMENT	OBSERVATION	INFERENCE
PRELIMINARY EXAMINATIONS :		
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 Cu^{2+}
	Brown	Pre. of Fe^{3+}
	Green	Pre. of Ni^{2+}
	Pale pink	Pre. of Mn^{2+}
	Pink	Pre. of Co^{2+}
2) Noted the solubility a) In water b) In dil.HCl	a) Soluble and no ppt with Na_2CO_3 b) Insoluble	a) Pre. of NH_4^+ b) Pre. of 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 Cu^{2+} b) Pre. of Ca^{2+} c) Pre. of Sr^{2+} d) Pre. of Pb^{2+} e) Pre. of Ba^{2+}
4) Ash Test : A little of the salt is heated with con. 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 Zn^{2+} b) Pre. of Al^{3+} c) Pre. of Mg^{2+}
SYSTEMATIC ANALYSIS OF ANIONS :		
1) Dil. H_2SO_4 test : To the salt add dil. H_2SO_4 , warm if required.	a) Evolution of Colourless, odourless gas with brisk effervescence, turns limewater milky.	a) Pre. of carbonates
	b) Smell of vinegar	b) Pre. of acetate

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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

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- 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
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- 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
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- 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^+
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- 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
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- 6 Qualitative Analysis
- Analysis of Anions
- Analysis of Cations
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- 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
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- 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
- 4 To purify water by reverse osmosis technique
- 5 To purify water by GAC

method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment
method Viva Voce 3 Water Analysis 1 To test the hardness of different water samples Viva Voce 4 Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap Viva Voce 5 Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper Viva Voce 6 Analysis of Fruits and Vegetable Juices 1 To analysis the fruit and vegetable juices for the constituent present in them Viva Voce 7 Rate of Evaporation 1 To study the rate of evaporation of different liquids IViva Voce 8 Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Viva Voce 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 LABORATORY MANUAL FOR SALT MIXING TEST IN ROD BUNDLES. ,1978 Handbook of Water Analysis Leo M.L. Nollet,Leen S. P. De Gelder,2013-07-29 Extensively revised and updated Handbook of Water Analysis Third Edition provides current analytical techniques for detecting various compounds in water samples Maintaining the detailed and accessible style of the previous editions this third edition demonstrates water sampling and preservation methods by enumerating different ways to measure c

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