

SALT ANALYSIS

1) For $MgSO_4$ - magnesium Sulphate:-

Aim:- To analyze the given salt for an anion and one cation present in it.

Material Required:- Boiling Tubes, Test Tubes, Test Tube Holder, Test Tube Stand, delivery tube, Corks, Filter paper, X-ray paper.

Procedure:-

S.No.	Test	Observation	Inference
-------	------	-------------	-----------

i) Colour

ii) Odour

iii) Flame test

iv) Add H_2SO_4 Sol
(Salt + conc H_2SO_4)

v) Conc H_2SO_4 Sol
(Salt + conc H_2SO_4)

Class 12th

Chemistry Practical File

Experiment - SALT ANALYSIS

5 most Important Salt

Handwritten PDF Notes

ii) For $Fe^{2+}Cl^-$, Ferrous chloride :-

Aim:- To analyze the given salt for an anion and one cation present in it.

Material Required:- Boiling Tubes, Test Tubes, Test Tube Holder, Test Tube Stand, delivery tube, Corks, Filter paper, X-ray paper.

Procedure:-

S.No.	Test	Observation	Inference
-------	------	-------------	-----------

Brown reddish

Fe^{2+} may be present

Colourless

NO_3^- , S^{2-} , CO_3^{2-} are absent

Ca^{2+} , S^{2-} , SO_4^{2-} , NO_3^- are absent
 Cl^- may be present

It is found
Substance is
Fe

Cl^- confirmed

Class Xii Chemistry Practical Salt Analysis

Karin Nielsen-Saines



Class Xii Chemistry Practical Salt Analysis:

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guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-22

A Surface Chemistry

- 1 To prepare colloidal solution sol of starch
- 2 To prepare a colloidal solution of egg albumin
- 3 To prepare colloidal solution of gum
- 4 To prepare colloidal solution of aluminium hydroxide $\text{Al}(\text{OH})_3$
- 5 To prepare colloidal solution of ferric hydroxide $\text{Fe}(\text{OH})_3$
- 6 To prepare colloidal solution of arsenious sulphide As_2S_3
- 7 To purify a freshly prepared sol by dialysis
- 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions

Viva Voce B Chemical Kinetics

- 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid
- 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid
- 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions
- 4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicator

Viva Voce C Thermochemistry

- 1 Determine the enthalpy of dissolution of copper sulphate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ in water at Room temperature
- 2 To determine the enthalpy of neutralization of the reaction between HCl and NaOH
- 3 To determine enthalpy change during the interaction between acetone and chloroform

Viva Voce D Electrochemistry

- 1 To study the variation of cell potential in $\text{Zn}|\text{Zn}^{2+}||\text{Cu}^{2+}|\text{Cu}$ with change in concentration of electrolytes CuSO_4 or ZnSO_4 at room temperature

Viva Voce E Chromatography

- 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their R_f values
- 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values
- 3 To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values

Viva Voce F Preparation of Inorganic Compounds

- 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate
- 2 To prepare a pure sample of potash alum fitkari
- 3 Preparation of crystals of potassium ferric oxalate or potassium trioxalato ferrate III

Viva Voce G Preparation of Organic Compounds

- 1 Preparation of iodoform from ethyl alcohol or acetone
- 2 Preparation of acetanilide in laboratory
- 3 Preparation of β -Naphthol aniline dye
- 4 To prepare a pure sample of dibenzalacetone
- 5 To prepare a pure sample of p-nitro acetanilide

Viva Voce H Tests for the Functional Groups Present in Organic Compounds

Viva Voce I Study of Carbohydrates Fats and Proteins

- 1 To study simple reactions of carbohydrate
- 2 To study simple reactions of fats
- 3 To study simple reactions of proteins
- 4 To investigate presence of carbohydrates fats and proteins in food stuffs

Viva Voce J Volumetric Analysis

- 1 To prepare 250 ml of $M/10$ solution of oxalic acid
- 2 To prepare 250 ml of $M/10$ solution of ferrous ammonium sulphate
- 3 Prepare $M/20$ solution of oxalic acid with its help find out the molarity

and strength of the given solution of potassium permanganate 4 Prepare M 20 solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution Viva Voce K Qualitative Analysis Viva Voce INVESTIGATORY PROJECTS 1 To study the presence of oxalate ions in guava fruit at different stages of ripening 2 To study the quantity of casein present in different samples of milk 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 To study the effect of potassium bisulphite as food preservative at various concentrations 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 To extract essential oils present in saunf aniseed ajwain coriander cardamom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO₂ in brinjal

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