

CHEMISTRY INVESTIGATORY PROJECT

ANALYSIS OF VEGETABLE AND FRUIT JUICES



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CLASS: XI B

ROLL NO.: 1110B

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Analysis Of Fruit And Vegetable Juices For Their Acidity Project

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Analysis Of Fruit And Vegetable Juices For Their Acidity Project:

Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal Dr. S. C. Rastogi , Er. Meera Goyal,2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards

A 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

B Characterisation and Purification of Chemical Substances

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- 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

C 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^+

D 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^{2+} and Cl^- ions by changing the concentrations of either of the ions

E 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

F Qualitative Analysis

- 1 Analysis of Anions
- 2 Analysis of Cations

G 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

INVESTIGATORY PROJECTS

A Checking of Bacterial Contamination in Water

- 1 To check the bacterial contamination in drinking water by testing sulphide ions

B 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

C Water Analysis

- 1 To test the hardness of different water samples

D 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

E Tea Analysis

- 1 To study the acidity of different samples of tea leaves tea by using pH paper

F

Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H 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 Log Antilog Table Comprehensive Practical Chemistry XI Dr. N. K. Verma, B. K.

Vermani, Dr. Neera Verma, 2010-02 **Chemistry Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Hard Bound Lab Manual Chemistry** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals **Oswaal CBSE Question Bank Class 11 Chemistry, Chapterwise and Topicwise Solved Papers For 2025 Exams** Oswaal Editorial Board, 2024-02-03 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 1000 Questions SAS Questions Sri Aurobindo Society To give you 1000 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions Artificial Intelligence For you to be on the cutting edge of the coolest educational trends

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chemical preservatives etc Deterioration in storage Plant design and layout Plant sanitation Utilization and disposal of processing wastes Pineapple juice Grapefruit juice Orange juice Lemon and other citrus juices Grape juice Apple juice or cider Cherry berry and other fruit juices Blended fruit juices and nectars Fruit juice beverages Tomato juice Natural acidified and fermented vegetable juices Vacuum concentration of fruit and vegetable juices Dehydration of juices Fruit juice syrups Fruit juices in jelly making Volatile flavor recovery The nutritive value of fruit and vegetable juices Government standards and regulations Quality control and laboratory examination Blending formulae and strup algebra Home and farm preparation and preservation of juices **Annual Report** Illinois Council on Food and Agricultural Research,2004 Bibliography of Agriculture with Subject Index ,1985 **Public Opinion** ,1892 **Honey Hotline** ,1989 Fruit and Vegetable Juice Processing Technology Maynard Alexander Joslyn,1971 *The Uses of Juices* C. E. Clinkard,1993-05 1960 Juices extracted from raw fruits vegetables Contents include Choosing Your Vegetables Cleaning Vegetables What Fruit to Use Quantity of Juice to be Taken the Vital Properties of Juices Incompatible Juices etc

Adopting the Beat of Appearance: An Emotional Symphony within **Analysis Of Fruit And Vegetable Juices For Their Acidity Project**

In a global eaten by screens and the ceaseless chatter of instant transmission, the melodic elegance and emotional symphony created by the written word frequently fade into the background, eclipsed by the persistent sound and distractions that permeate our lives. However, situated within the pages of **Analysis Of Fruit And Vegetable Juices For Their Acidity Project** a marvelous fictional treasure full of fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this captivating masterpiece conducts readers on a mental journey, skillfully unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths of the touching assessment, we will examine the book's main harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers' souls.

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