

Determination of concentration of a Dextrose solution of unknown strength using an Ostwald Viscometer.

Aim: To determine the concentration of a Dextrose solution of unknown strength using an Ostwald Viscometer and to study the variation of this solution's viscosity as a function of temperature.

Apparatus Required: 1. Ostwald Viscometer, Thermometer
2. Water, Ice water, glass jar
3. Hot plate, standard volumetric flask 25 ml

Chemicals Required: 1. Dextrose, Distilled water

Theory: Viscosity: The internal friction of a liquid which resist the flow of it is known as viscosity.

The force it implies can be measured in terms of the tangent force which is needed to keep the speed of layers constant, this force is called viscous force.

$$\eta = \frac{\pi \mu^4 P L}{8 \pi V L}$$

$$\text{Volume rate law} = \frac{V}{t} = \frac{P \pi \mu^4}{8 \eta L}$$

V = Volume of the liquid

t = time of flow of liquid

η = Viscosity coefficient

P = Hydrostatic pressure

L = Distance travelled by the liquid during time t .

The units of viscosity are called Poise (P). The official SI unit for absolute viscosity is kg/ms or (Pascal second, Pa.s).

Ostwald viscometer is a commonly used viscometer, which consists of a U-shaped glass tube held vertically. For more accurate

Msc Chemistry Practical Manual

Dr. S. C. Rastogi , Er. Meera Goyal



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Practical Physical Chemistry Dr. M. Satish Kumar, Physical Chemistry deals with the relations between the physical properties of substances and their composition The present book is intended to serve as a practical manual for undergraduate and post graduate students I have attempted to assemble the list of experiments from my experience and also have drawn upon the experience of the students who have undergone these laboratory courses and felt the inadequacy of the existing syllabus I am aware that I have not yet exhausted all the experiments that they wanted to place in this book but I had to make a selection keeping the size in consideration This manual is largely structured around the standard experiments of physical chemistry Detailed information on instrumentation kinetics experimental methods and data analysis has been covered I will be happier to take all comments and incorporate them in the further editions 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

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methods of analysis are needed to test these materials to know their compositions characteristics and to give necessary recommendations There was a long felt need to provide a comprehensive practical manual on soil plant water and seed testing for the graduate and post graduate students scientists and technicians working on this aspect *B.Sc.-I Practical Chemistry* Dr. Reenu Mishra, Dr. Surabhi Singh, Dr. Varsha Jaiswal, Dr Archana Asatkar, Vandna Jangde, 2025-09-07 Chemistry is an analytical and practical science and a perfect connection between teaching theory and practice leads to a better understanding of the subject The detailed study of the theory behind an experiment in practice enables the students to perform the experiment properly So I have dealt with the theory of experiments in details Throughout the book chemical reactions have been stressed wherever possible The emphasis is on simplicity and clarity but not at the cost of logical scientific discussion I sincerely hope that the method of presentation in the book will be helpful to the students and teachers in performing and demonstrating the experiments independently in the laboratory In the present book of practical chemistry first part deals with the inorganic chemistry practicals and the second part with physical chemistry practicals whereas in Semester VI the first part deals with the organic chemistry practicals and the second part with physical chemistry practicals The procedure and formulae for the preparation of reagents and solutions required to carry out experiments are included in appendices along with other details **Reference Catalogue of Current Literature** ,1928 Practical Chemistry (For B.Sc. I, II and III Year Students) Pandey O.P. & Bajpai D.N. & Giri S.,1972 FOR B Sc I II III YEAR STUDENTS *The Leather Manufacturer* ,1916

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