



**LABORATORY MANUAL OF**  
**ORGANIC**  
**CHEMISTRY**

**FIFTH REVISED EDITION**

**RAJ K BANSAL**



**NEW AGE INTERNATIONAL PUBLISHERS**

# Laboratory Manual Of Organic Chemistry By Bansal

**Bansal Raj K**



## **Laboratory Manual Of Organic Chemistry By Bansal:**

Laboratory Manual of Organic Chemistry Raj K. Bansal, 2009 About the Book The manual has been thoroughly revised several new experiments and tests have been added while some redundant material has been deleted Chapter 2 has been completely rewritten An obvious change of this edition constitutes the splitting of Chapter 7 into two separate Chapters Tables on derivatives of organic compounds have been expended Also included are 20 estimations 75 preparations and isolation experiments and approximately 135 in text questions related to the experiments The approximation of modern spectroscopic techniques to structure determination have been discussed in the last Chapter This book is designed both for undergraduate and postgraduate level students with its enhanced and comprehensive presentation This is an indispensable book for organic chemistry practicals About the Author Dr Raj K Bansal received his M S from the University of California Davis Calif U S A and Ph D from Calgary University Calgary Alberta Canada He was a postdoctoral fellow at the National Research Council N R C of Canada in Halifax N S Canada followed by a Research Associateship at the Mellon Institute of Science Carnegie Mellon University Pittsburgh Pa U S A Dr Bansal has published a number of research papers in various foreign and Indian scientific journals He is the author of six books on chemistry including this work A Textbook of Organic Chemistry 5th ed 2007 Organic Chemistry Problems and Solutions 2nd edn 2006 and Heterocyclic Chemistry 4th edn 2005 One of his books Synthetic Approaches in Organic Chemistry has been reprinted by Jones and Bartlett Publishers Sudbury Massachusetts U S A Dr Bansal was a former Professor Department of Chemistry Indian Institute of Technology Delhi Hauz Khas New Delhi *Laboratory Manual in Organic Chemistry* BANSAL, 1983-06-01 *Laboratory Manual of Organic Chemistry* Bansal Raj K, 1990 Laboratory Manual in Organic Chemistry Raj K. Bansal, 1980 **Pharmaceutical Drug**

**Analysis** Ashutosh Kar, 2005 About the Book During the past two decades there have been magnificent and significant advances in both analytical instrumentation and computerized data handling devices across the globe In this specific context the remarkable proliferation of windows **EXPERIMENTAL ORGANIC CHEMISTRY** SONIA RATNANI, SHRINIWAS GURJAR, 2012-06-12 Primarily intended for the undergraduate students of science the book deals with the practical aspects of organic chemistry and discusses how experiments should be done in the laboratory The book introduces the various types of components used in laboratories and describes basic techniques used for purification It elaborates different methods of identification of organic compounds their preparation and analysis In addition it emphasizes qualitative analysis of organic compounds The book contains essential experiments done in an organic lab and also explains the theoretical background of reactions involved This book is an attempt to provide students with the often used methods in an easy to understand manner including explanations of theory procedures and interpretations of results of the experiments Besides undergraduate students of science this book is also useful for the postgraduate students of chemistry **KEY FEATURES** Includes reaction mechanism of each reaction Describes in Appendices safety measures to be taken in laboratory and how to prepare chemical

reagents Contains self assessment questions at the end of each chapter      Atomic And Molecular Spectroscopy Mool Chand Gupta,2007 This Comprehensive Text Clearly Explains Quantum Theory Wave Mechanics Structure Of Atoms And Molecules And Spectroscopy The Book Is In Three Parts Namely Wave Mechanics Structure Of Atoms And Molecules And Spectroscopy And Resonance Techniques In A Simple And Systematic Manner The Book Explains The Quantum Mechanical Approach To Structure Along With The Basic Principles And Application Of Spectroscopic Methods For Molecular Structure Determination The Book Also Incorporates The Electric And Magnetic Properties Of Matter The Symmetry Group Theory And Its Applications Each Chapter Includes Many Solved Examples And Problems For A Better Understanding Of The Subject With Its Exhaustive Coverage And Systematic Approach This Is An Invaluable Text For B Sc Hons And M Sc Chemistry Students

A Concise Text Book of Organic Chemistry for II BSc Analytical Chemistry (H) Sem-3, Course-6 VENKATA RAO BASA,2024-11-29 Organic chemistry Topics Halogen Compounds Alcohols Phenols Carbonyl Compounds Carboxylic Acids and Carbohydrates highly useful for B Sc also Competitive Exams like PG Entrance NEET IIT JEE CSIR      **A Concise Organic Chemistry Text Book for Honors Semester-3, Course-6 by BVR VENKATA RAO** BASA,2024-12-10 This concise text book of organic chemistry is primarily meant for II BSc Honors students of Indian Universities It includes topics such as halogen Hydroxy carbonyl compounds carboxylic acids and carbohydrates Some practicals like organic preparations and organic compound analysis is depicted nicely Covers multiple choice questions for PG entrance Video links are provided wherever appropriate Hope students and faculty will receive this book and utilize well      Practical Handbook of

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**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

Viva Voce 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

Viva Voce 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

Viva Voce 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

Viva 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      *Food Chemistry* Alex V. Ramani, 2019-06-12 T Food Nutrition and Health Carbohydrates Proteins and Amino Acids Lipids Vitamins Minerals and Water Food Processing Food Additives Food Adulteration and Testing Food Products Energy Metabolism      International Books in Print ,1997      Indian Book Industry ,1987      Indian Books in Print ,2003      **American Book Publishing Record** ,1998      **Indian Journal of Chemistry** ,1984      *Phytochemical Techniques* N. Raaman, 2006 Phytochemicals are the individual chemicals from which the plants are made and plants are the key sources of raw material for both pharmaceutical and aromatic industries the improved methods for higher yield of active compounds will be the major incentive in these industries To help those who are involved in the isolation of compounds from plants some of the essential phytochemical techniques are included in this book The theoretical principles of various instruments handling of samples and interpretation of spectra are given in detail Adequate chemical formulas are included to support and explain various structures of compounds and techniques The book will prove useful to students researchers professionals in the field of Plant Physiology and Pathology Pharmaceutical and Chemical Engineering Biotechnology Medicinal and Aromatic Plants and Horticulture

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