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Laboratory Manual of Pharmaceutical Organic Chemistry I Mr. Sushant Sudhir Pande, Dr. Prashant D. Aragade, Dr. Saurabh C. Khadse, Dr. Niranjan S. Mahajan, 2024-02-16 We are pleased to put forth the Laboratory Manual of Pharmaceutical Organic Chemistry I This manual prepared according to the PCI B Pharm course regulations 2014 is divided into three sections systematic qualitative analysis preparation of suitable solid derivatives and construction of molecular models The methods of all the experiments are drawn from the latest editions of official books of pharmaceutical organic chemistry and research papers ensuring the inclusion of the latest advancements in methodologies or apparatus This manual is designed for outcome based education Each experiment follows a uniform format with sections for practical significance practical outcomes PrOs mapping with course outcomes theory resources used procedure precautions observations results conclusion references and synopsis questions Each experiment offers an opportunity for students to perform practical work developing proficiency in effectively managing equipment handling glassware chemicals reagents and writing analytical reports In addition the questions at the end of the experiments help to enhance students knowledge benefiting them as they pursue higher studies During the laboratory period you will have to multiple tasks while performing the experiment It is essential to document your actions and observations thoroughly as you proceed Always plan your work ahead considering what you are doing why you are doing it what is happening and what conclusions you can draw from your experiment We acknowledge the help and cooperation of various individuals in bringing out this manual We are highly indebted to the authors of the books and articles mentioned in the references which were a major source of information for this manual We also thank the publishers designers and printers who worked hard to publish this manual in a timely manner We hope that this manual will be helpful to students in understanding concepts principles and performing procedures We wish you all the best

Laboratory Manual of Pharmaceutical Organic Chemistry II Mr. Sushant Sudhir Pande, Dr. Prashant D. Aragade, Dr. Niranjan S. Mahajan, Dr. Rahul P. Umbarkar, 2024-02-16 We are very pleased to put forth the Laboratory Manual of Pharmaceutical Organic Chemistry II This manual is prepared as per PCI B Pharm course regulations 2014 and is divided into three sections for laboratory techniques determination of oil values and preparations of organic compounds The methods of all the experiments are added from the recent research papers so that the advancement in the methods or apparatus can be addressed

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.

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