

Functional Groups without Carbonyls

• Carbonyl Group: represents a carbon doubled bonded to an oxygen: $\begin{array}{c} \text{O} \\ \parallel \\ \text{C} \end{array}$

□ Functional groups w/o a carbonyl group are recognizable by the presence of a _____, _____, _____ or _____.

Functional Groups without Carbonyls

$\begin{array}{c} \text{H} & \text{H} & \text{H} \\ | & | & | \\ \text{H}-\text{C}-\text{C}-\text{C}-\text{OH} \\ | & | & | \\ \text{H} & \text{H} & \text{H} \end{array}$

$\begin{array}{c} \text{H} & & \text{H} \\ | & & | \\ \text{H}-\text{C}-\text{O}-\text{C}-\text{H} \\ | & & | \\ \text{H} & & \text{H} \end{array}$

$\begin{array}{c} \text{H} & \text{H} \\ | & | \\ \text{H}-\text{C}-\text{C}-\text{N}-\text{H} \\ | & | & | \\ \text{H} & \text{H} & \text{H} \end{array}$

$\begin{array}{c} \text{H} & \text{H} & \text{H} \\ | & | & | \\ \text{H}-\text{C}-\text{C}-\text{C}-\text{X} \\ | & | & | \\ \text{H} & \text{H} & \text{H} \end{array}$

(X = F, Cl, Br or I)

$\begin{array}{c} \text{H} & \text{SH} & \text{H} \\ | & | & | \\ \text{H}-\text{C}-\text{C}-\text{C}-\text{H} \\ | & | & | \\ \text{H} & \text{H} & \text{H} \end{array}$



Functional Groups Pearson Chemistry Workbook

**Norbert J. Pienta, Melanie M.
Cooper, Thomas J. Greenbowe**



Functional Groups Pearson Chemistry Workbook:

Laboratory Manual of Pharmaceutical Organic Chemistry I Mr. Sushant Sudhir Pande, Dr. Prashant D. Aragade, Dr. Saurabh C. Khadse, Dr. Niranjana 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. Niranjana 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

Water Chemistry Stanley E. Manahan, 2010-08-19 Carefully crafted to provide a comprehensive overview of the chemistry of water in the environment Water Chemistry Green Science and Technology of Nature's Most Renewable Resource examines water issues within the broad framework of sustainability an issue of increasing importance as the demands of Earth's human population threaten to overwhelm it

Sif Chemistry NI Tb Rex M. Heyworth, 2007

Multiscale Operational Organic Chemistry John W. Lehman, 2009 This comprehensive laboratory text provides a thorough introduction to all of the significant operations used in the organic lab and includes a large selection of traditional

scale and microscale experiments and minilabs Its unique problem solving approach encourages students to think in the laboratory by solving a scientific problem in the process of carrying out each experiment The Second Edition contains a new introductory section Chemistry and the Environment which includes a discussion of the principles of green chemistry Several green experiments have been added and some experiments from the previous editions have been revised to make them greener *Chemistry insights 'O' level* Rex M. Heyworth, 2007 **Chemistry and Industry**, 1954 *Books in Print*, 1994

Activating Agents and Protecting Groups Anthony J. Pearson, William R. Roush, 1999-07-09 Recognising the need for a cost effective reference work that deals not only with the most popular reagents in synthesis but also reaches the widest possible audience of practising organic chemists the editors of The Encyclopedia of Reagents for Organic Synthesis EROS have developed a list of the most important and useful reagents employed in the field conveniently presented in four separate volumes The reagents included in this volume reflect the fact that protecting groups and activation procedures are often used in combination There are many instances in the synthesis of natural and unnatural products pharmaceuticals oligosaccharides and oligonucleotides etc where similar tactics must be employed to prevent undesired activation or reaction of functionality Accordingly the most important reagents used to protect amines alcohols carboxyl carbonyl and other reactive functional groups are included in this volume The list of activating agents includes well known reagents that activate functional groups for substitution or elimination reactions as well as less traditional examples e g HMPA used to activate enolates and alkyllithium reagents to increase the nucleophilicity Each article contains all of the information found in EROS as well as expanded related reagents listings and additional references to enable the reader to quickly access a broad range of information that is beyond the scope of the reagent entries themselves This text will prove an invaluable resource

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