

Chemistry of Life Exercise

Objectives:

1. Recognize and state the major characteristics of carbohydrates, proteins and lipids and their building blocks the monosaccharides, amino acids, glycerol and fatty acids.
2. Identify the main elements that compose the different classes of organic molecules and list how many covalent bonds one atom of each of the elements can form.
3. If given the structural formula for an organic compound, be able to identify all functional groups in the molecule and the type of compound (alcohol, aldehyde, amino acid, ketone or an organic acid including fatty acids).
4. Use common lab tests to test for the presence of simple sugars (reducing sugars), starch, lipids and proteins.
5. Know what substances are used to test for simple sugars (reducing sugars), starch, lipids and proteins and be able to recognize the positive results for each test.

Introduction:

Life, as we know it on earth, depends to a great extent on the structure, function and chemical reactivity of a diverse group of compounds including carbohydrates, proteins, lipids and nucleic acids. These common organic substances are major components of cells and/or fluids and secretions of the body. This exercise is intended to acquaint you with the basic structure and characteristics of these vital substances except for nucleic acids. Common lab tests will be used to identify simple sugars (reducing sugars), starch, lipids and proteins.

Partial list of Functional Groups of Organic Compounds:

| Name | Abbreviation | Structure | Properties |
|--|---------------------------------|---|------------|
| Hydroxyl group (Alcohols) | -OH | -O-H | Polar |
| Carboxyl group (Amino acids, Organic acids) | -COOH | $\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{OH} \end{array}$ | Acidic |
| Amino group (Amino acids, Amines) | -NH ₂ | $\begin{array}{c} \text{H} \\ \\ -\text{N}-\text{H} \end{array}$ | Basic |
| Carbonyl group (Aldehydes) | -CHO | $\begin{array}{c} \text{H} \\ \\ -\text{C}=\text{O} \end{array}$ | Polar |
| Carbonyl group (Ketones) | -C-CO-C- | $\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{C}-\text{C}- \\ \\ \text{O} \end{array}$ | Polar |
| Phosphate group | -H ₂ PO ₄ | $\begin{array}{c} \text{OH} \\ \\ -\text{O}-\text{P}-\text{OH} \\ \\ \text{O} \end{array}$ | Acidic |

Chemistry Lab Answers

Georgios Tsaparis



Chemistry Lab Answers:

Practical Chemistry Labs Leonard Saland, 1989 Features self contained step by step activities using common materials and covering topics from food chemistry to papermaking and electrochemistry Illustrates the connection between the real world and chemistry concepts such as solutions chemistry acids and bases and more Includes teacher notes quizzes and answers to help monitor student progress

Chemistry in the Laboratory James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations

Chemistry Lab Manual Answer Key, 2nd Edition Bright Thinker, 2024-07

Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner

EJEL Volume 10 Issue 2, Techniques in Organic Chemistry Jerry R. Mohrig, Christina Noring Hammond, Paul F. Schatz, 2006 Is the most comprehensive and detailed presentation of lab techniques available for organic chemistry students and the least expensive It combines specific instructions for 3 different kinds kinds of laboratory glassware and offers extensive coverage of spectroscopic techniques and a strong emphasis on safety issues

Engineer Update, 1991

Linne & Ringsrud's Clinical Laboratory Science E-Book Mary Louise Turgeon, 2018-12-22 Thoroughly updated and easy to follow Linne Ringsrud s Clinical Laboratory Science Concepts Procedures and Clinical Applications 8th Edition offers a fundamental overview of the laboratory skills and techniques you ll need for success in the clinical laboratory Author Mary Louise Turgeon s simple and straightforward writing clarifies complex concepts and her unique discipline by discipline approach helps you build knowledge and learn to confidently perform routine clinical laboratory tests with

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Conference Proceedings. New Perspectives in Science Education Pixel,2017 Laboratory Experiments for Chemistry, the Central Science, 5th Ed John Henry Nelson,1991 *The Annual American Catalog* ,1904 **Outlines of Theoretical Chemistry** Frederick Hutton Getman,1913 **Industrial and Engineering Chemistry** ,1923 **American Druggist and Pharmaceutical Record** ,1898 **The Annual American Catalogue Cumulated 1900-1902** ,1903

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