

# LAB REPORT - CHEMICAL REACTIONS

## I. Reacting Mg with HCl Solution

appearance of Mg: silver solid

appearance of HCl solution: clear liquid

evidence that a chemical reaction occurred: dissolved

molecular equation:  $\text{Mg} + 2\text{HCl} \rightarrow \text{H}_2 + \text{MgCl}_2$

complete ionic equation:  $\text{Mg}(s) + 2\text{H}^+(aq) + 2\text{Cl}^-(aq) \rightarrow \text{H}_2(g) + \text{Mg}^{+2}(aq) + 2\text{Cl}^-(aq)$

net ionic equation:  $\text{Mg}(s) + 2\text{H}^+(aq) \rightarrow \text{H}_2(g) + \text{Mg}^{+2}(aq)$

spectator ions:  $2\text{Cl}^-$  general reaction type: single displacement

Which species are oxidized?  $\text{Mg}(s)$  Which species are reduced?  $\text{H}^+$

## II. Reacting $\text{Pb}(\text{NO}_3)_2$ solution with KI solution

appearance of the  $\text{Pb}(\text{NO}_3)_2$  solution: clear

appearance of the KI solution: clear

appearance of the reaction mixture: thick yellow

molecular equation:  $\text{Pb}(\text{NO}_3)_2 + 2\text{KI} \rightarrow 2\text{KNO}_3 + \text{PbI}_2$

complete ionic equation:  $\text{Pb}^{+2}(aq) + 2\text{NO}_3^-(aq) + 2\text{K}^+(aq) + 2\text{I}^-(aq) \rightarrow \text{PbI}_2(s) + 2\text{K}^+(aq) + 2\text{NO}_3^-(aq)$

net ionic equation:  $\text{Pb}^{+2}(aq) + 2\text{I}^-(aq) \rightarrow \text{PbI}_2(s)$

spectator ions:  $\text{K}^+, \text{NO}_3^-$  general reaction type: double displacement

# Chemical Reactions Andequations Lab Manual Answers

**Olga I. Agapova**



## **Chemical Reactions Andequations Lab Manual Answers:**

*Laboratory Manual for Principles of General Chemistry* J. A. Beran, Mark Lassiter, 2022-08-16 *Laboratory Manual for Principles of General Chemistry* 11th Edition covers two semesters of a general chemistry laboratory program. The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure, selecting the proper apparatus, employing the proper techniques, systematically analyzing and interpreting the data, and minimizing inherent variables. As a result of good data, a scientific and analytical conclusion is made, which may or may not be right but is certainly consistent with the data. Experiments write textbooks; textbooks don't write experiments. A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered. Further experimentation provides additional cause-effect observations leading to an even better understanding of the experiment. The 11th edition's experiments are informative and challenging while offering a solid foundation for technique, safety, and experimental procedure. The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment. The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit. An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment. Continued emphasis on handling data is supported by the Data Analysis section.

**Lab Manual Science Class 10** Neena Sinha, R. Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus. The various objectives, materials, required procedures, inferences, etc. have been given in a step-by-step manner. Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce.

**Lab Manual for General, Organic, and Biochemistry** Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one-term chemistry course can be challenging. Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one-term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter, emphasizes cases related to allied health, and provides students with the practical quantitative skills they will need in their professional lives. *Essentials of General Organic and Biochemistry* captures student interest from day one with a focus on attention-getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one-term course. Students value their experience with chemistry, getting a true sense of just how relevant it is to their chosen profession. To browse a sample chapter, view sample ChemCasts, and more, visit [www.whfreeman.com/gob](http://www.whfreeman.com/gob).

**ChemDiscovery Lab Manual** Olga I. Agapova, 2002 *Laboratory Manual for Principles of General Chemistry* Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques. The manual helps students understand the timing and situations for the various techniques. The Beran lab manual has long been a market-leading lab manual for general

chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures      **Science Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual      Laboratory Manual for General Chemistry Alvin Strickler,1923      **The Essential Lab Manual** Karen Timberlake,2002-06-24 Drawing from the successful main Laboratory Manual the Essential Laboratory Manual includes twenty one experiments which have been revised and updated Suitable for a one or two term lab course      Clean Energy: Hydrogen/fuel Cells Laboratory Manual K S V Santhanam,Gerald A Takacs,Massoud J Miri,Alla V Bailey,Thomas D Allston,Roman J Press,2016-01-15 This manual is designed for the use of hydrogen as a fuel in the fuel cells The turn of the century has seen a realization of moving towards clean energy due to a variety of considerations ranging from global warming anxiety to living in a healthy atmosphere depletion of fossil fuels oil slick in Gulf of Mexico resulting in disasters and so forth Innumerable debates in the literature has led to the identification of hydrogen as the safest and efficient fuel over the other available fuels This fuel can be used in two ways a direct combustion like gasoline and b fuel cells The use of it by the first method requires pure oxygen to be used for combustion it is an expensive method involving oxygen storage and transportation If oxygen is substituted by air in the combustion it produces nitrogen oxides that are defying the definition of clean energy The other method is to use it as a fuel cell for easy emission free transportation Here chemical energy is converted to electrical energy directly in a fuel cell To illustrate principles of related fuel cells methanol and borohydride fuel cells are included in this manual The nine experiments described here are designed for illustrating the concepts for the beginners and those motivated to go for clean energy DVD displays the actual experimental set up and measurement procedures for Hydrogen safety Fuel value measurement Gaseous properties of hydrogen Proton exchange membrane fuel cell assembly and Dissolved methanol fuel cell      **Lab Manual, Student Edition, F** ,1994-06      Instructors Manual Introduction to Chemi Thomas R. Dickson,1971      Laboratory Guide and Class Manual in Qualitative Chemical Analysis Harry Sands Grindley,1906      Core Science Lab Manual with Practical Skills for Class X V. K. Sally,Chhaya Srivastava,Goyal Brothers Prakashan,2019-01-17 Goyal Brothers Prakashan      Oswaal CBSE Question Bank Class 10 Science, Chapterwise and Topicwise Solved Papers For Board Exams 2025 Oswaal Editorial Board,2024-01-19 Description of the product 100% Updated Syllabus Fully Solved Board Papers We ve got you covered with the latest and 100% updated curriculum Timed Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics to Study smart not hard Extensive Practice with 2000 Questions Board Marking Scheme Answers Yep you read that right 2000 chances to become a champ Concept Clarity with 500 Concepts 50 Concept Videos to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions because we re on the cutting edge of the coolest educational trends      **Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications)** Dr. K. N. Sharma,Dr. Subhash Chandra Rastogi,Er. Meera Goyal,2021-07-03 Highly Useful for Various Engineering and Medical

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Merrill Chemistry Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998      **Exploring General Chemistry in the Laboratory** Colleen F. Craig,Kim N. Gunnerson,2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science      Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section

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