

EXPERIMENT 8: Activity Series (Single Displacement Reactions)

PURPOSE

- Reactions of metals with acids and salt solutions
- Determine the activity of metals
- Write a balanced molecular equation, complete ionic equation, and net ionic equation for single replacement reaction.

Materials:

Equipment: 1 well-plate (Spot plates) or small test tubes

Stirring rod or toothpicks

Chemicals and solutions: a tray containing the metals Mg, Pb, Cu, Zn, Fe, 1.0 M HCl and 0.25 M nitrate salt solutions of each of these metals such as:

$\text{Mg}(\text{NO}_3)_2$

$\text{Pb}(\text{NO}_3)_2$

$\text{Cu}(\text{NO}_3)_2$

$\text{Zn}(\text{NO}_3)_2$

$\text{Fe}(\text{NO}_3)_3$

Note - Before you begin this lab, you should be familiar with types of reactions found in chapter 4 of the text. Wear appropriate clothing, shoes and safety glasses for this lab.



Stirring rod



Spot plate

INTRODUCTION

One of the most important characteristics of a metal is its activity (reactivity). The activity of a metal is its ability to react with nonmetals. In such reaction a metal typically loses electrons to the non-metal to form cations and the product is an ionic compound.

Different metals have different activities. Some metals are very active such as lithium, sodium, potassium, and cesium; some are slowly active such as tin, lead, and iron; and some are not active at all (inactive) such as copper, silver, and mercury. Inactive metals are those which resist oxidation (reaction with oxygen in air). These are often called the noble metals.

Single Replacement Lab Key

LP Steffe



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Regents Exams and Answers: Chemistry--Physical Setting Revised Edition Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day

Prentice Hall Chemistry, 2000 *Regents Chemistry--Physical Setting Power Pack Revised Edition* Albert S.

Tarendash, 2021-01-05 Barron's two book Regents Chemistry Power Pack provides comprehensive review actual administered exams and practice questions to help students prepare for the Chemistry Regents exam This edition includes Regents Exams and Answers Chemistry Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day Let's Review Regents Chemistry Extensive review of all topics on the test Extra practice questions with answers A detailed introduction to the Regents Chemistry course and exam One actual recently released Regents Chemistry exam with an answer key

Bioinformatics Computing Bryan P. Bergeron, 2003 Comprehensive and concise this handbook has chapters on computing visualization large database designs advanced pattern matching and other key bioinformatics techniques It is a practical guide to computing in the growing field of Bioinformatics the study of how information is represented and transmitted in biological systems starting at the molecular level *Oracle SQL Interactive Workbook* Alex Morrison, Alice Rischert, 2000 Written by some of the world's leaders in communications this is a hands on example rich guide to simulating communications systems The first book to present complete simulation models built with MATLAB it offers practical guidance on every key aspect of simulation as well as detailed models that can serve as laboratories for evaluating the potential impact of changes in system design *Catalog of Copyright Entries. Third Series* Library of Congress.

Copyright Office, 1973 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

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Mini Dental Implants Victor Dr. Sendax, 2012-10-03 Covering the latest advances in mini dental implant technology Mini Dental Implants Principles and Practice makes it easy to incorporate MDIs into your practice An illustrated evidence based approach shows how MDIs can provide successful outcomes in long term use and also in shorter term transitional applications This success is proven by 20 years of clinical trials and research showing that the Sendax Mini Dental Implant System can benefit your patients with faster surgery reduced pain faster healing and less risk of infection Written by noted implant dentistry expert Dr Victor I Sendax this text allows you to offer patients a minimally invasive immediately functional and lower cost alternative to traditional dental implants Easy to understand coverage from different perspectives allows you to access information most applicable to your own practice and to learn more about the other roles involved in achieving successful outcomes including the general practitioner periodontist oral maxillofacial surgeon maxillofacial prosthodontist orthodontist and laboratory technician An advanced approach with evidence based outcomes clearly demonstrates the success of mini dental implant technology and keeps you on the cutting edge of the science of implantology Well known author Dr Victor I Sendax is a diplomate past president of The American Board of Oral Implantology Implant Dentistry and The American Academy of Implant Dentistry and winner of the 2012 AAID Research

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*108-1 Hearings: Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations For 2004, Part 3, March 27, 2003, *,2003 **Lab-on-a-chip Devices for Advanced Biomedicines** Arpana Parihar,Piyush Pradeep Mehta,2024-08-14 The global miniature devices market is poised to surpass a valuation of 12 15 billion USD by the year 2030 Lab on a chip LOC devices are a vital component of this market Comprising a network of microchannels electrical circuits sensors and electrodes LOC is a miniaturized integrated device platform used to streamline day to day laboratory functions run cost effective clinical analyses and curb the need for centralized instrumentation facilities in remote areas Compact design portability ease of operation low sample volume short reaction time and parallel investigation stand as the pivotal factors driving the widespread acceptance of LOC within the biomedical community In this book the Editors meticulously explore LOC through three key Ts Theories microfluidics microarrays instrumentation software Technologies additive manufacturing artificial intelligence computational thinking smart consumables scale up tactics and biofouling and Trends biomedical analysis point of care diagnostics personalized healthcare bioactive synthesis disease diagnosis and space applications This comprehensive text not only provides readers with a thorough understanding of the current advancements in the LOC domain but also offers valuable insights to support the utilization of miniaturized devices for enhanced healthcare*

practices Aimed at career researchers looking for instruction in the topic and newcomers to the area the book is also useful for undergraduate and postgraduate students embarking on new studies or for those interested in reading about the LOC platform **Basic Concepts of Chemistry** Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance **Homework Helpers: Chemistry, Revised Edition** Greg Curran, 2011-04-15 Homework Helpers Chemistry is a

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Quality Assurance of Chemical Measurements John Keenan Taylor, 1984 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** , 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Standard Reference Materials** John K. Taylor, 1997-07 This handbook was prepared with the

objective of improving the understanding of the basis for the use of Standard Reference Materials SRMs While written from the viewpoint of a chemist the basic concepts described are believed to be applicable to most areas of metrology The handbook is arranged by section in a logical progression starting with the basic concepts of precision accuracy followed by discussions of the calibration quality assurance of the measurement process the use of SRMs to evaluate various kinds of

measurements the reporting of data with evaluated limits of uncertainty Charts tables
Appropriation Bill United States. Congress. House. Committee on Appropriations, 2016

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