

Experiment 9

Acid-Base Titration

OBJECTIVES:

- To learn basic chemical characteristics of acids and bases.
- To learn how to perform titrations with precision.
- To understand how titrations can be used in chemical analysis.
- To prepare and standardize an NaOH solution.
- To use your standardized NaOH to determine the molarity of acetic acid in vinegar.

INTRODUCTION:

All Freshman Chemistry labs include at least one **titration** experiment. Titration is an old and time-honored method of **quantitative analysis**.¹ In every titration, we have some reaction occurring between some pair of reactants, A & B.

General



Reaction

A titration reaction usually falls into one of the three following categories:

(1) A Precipitation Reaction.



(2) An Acid-Base Reaction.

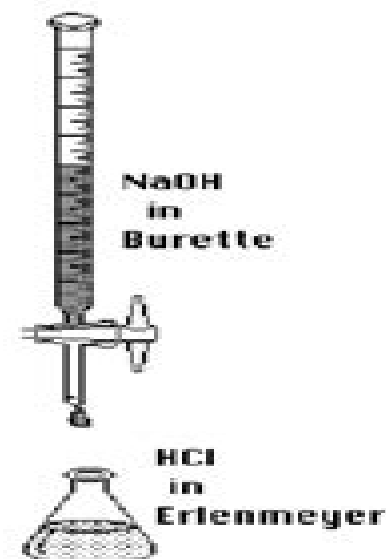


(3) An Oxidation-Reduction Reaction.



In today's experiment the reaction will be of type (2)—an acid-base neutralization reaction. As always in a titration, we place one reactant (a solution of NaOH) in a Burette and the other

¹ Quantitative Analysis techniques are designed to answer quantitative questions concerning how much of something is present in a sample. Quantitative Analysis techniques are to be distinguished from **Qualitative Analysis** techniques that are designed to answer qualitative questions concerning what substances are present in a sample.



Acid Base Titration Lab Questions And Answers

Daniel C. Harris



Acid Base Titration Lab Questions And Answers:

CliffsNotes AP Chemistry Bobrow Test Preparation Services,2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter s end Two full length practice tests with detailed answer explanations are included in the book

Computer Based Projects for a Chemistry Curriculum Thomas J. Manning,Aurora P. Gramatges,2013-04-04 This e book is a collection of exercises designed for students studying chemistry courses at a high school or undergraduate level The e book contains 24 chapters each containing various activities employing applications such as MS excel spreadsheets and Spartan computational modeling Each project is explained in a simple easy to understand manner The content within this book is suitable as a guide for both teachers and students and each chapter is supplemented with practice guidelines and exercises Computer Based Projects for a Chemistry Curriculum therefore serves to bring computer based learning a much needed addition in line with modern educational trends to the chemistry classroom

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Exploring Chemical Analysis Daniel C. Harris,2012-04 Exploring Chemical Analysis provides an ideal one term introduction to analytical chemistry for students whose primary interests generally lie outside of chemistry Combining coverage of all major analytical topics with effective problem solving methods it teaches students how to understand analytical results and how to use quantitative manipulations preparing them for the problems they will encounter in fields from biology to chemistry to geology Consistent Approach to Problem Solving By providing Test Yourself questions which break down problem solving to more elementary steps at the end of each worked example students can check their understanding of the concepts covered in each worked example Integrated Spreadsheet Applications The text can be used without ever opening a spreadsheet application but the early introduction of spreadsheets allows more flexibility Problems marked with a spreadsheet icon denote problems that can be answered with a spreadsheet Chapter Openers show the relevance of analytical chemistry to the real world and to other disciplines of science New Applications through the book include solid phase extraction for the measurement of caffeine measuring the common cold virus with an imprinted polymer on a quartz crystal microbalance a precipitation titration conducted on the Phoenix Mars Lander updated classroom data from a saltwater aquarium microdialysis in biological sampling measuring pH of oceans and rivers by spectrophotometry with indicators continued highlighting of the effects of increasing carbon dioxide in the air and ocean a description of the lithium ion battery how perchlorate was discovered on Mars with ion selective electrodes protein immunosensing with solid

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Staley, Edward L. Waterman, 1995 **ENC Focus**, 2000 Chemistry: for B.Sc. Students Semester-I (NEP-UP) Madan R.L., 2022 This textbook has been designed to meet the needs of B Sc First Semester students of Chemistry as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 Maintaining the traditional approach to the subject this textbook comprehensively covers two papers namely Fundamentals of Chemistry and Quantitative Analysis Important theoretical topics such as molecular polarity weak chemical forces simple bonding theories of molecules periodic properties of atoms basics of organic chemistry mechanism of organic reactions stereochemistry and the mathematical concepts of chemistry are aptly discussed to give an overview of Fundamentals of Chemistry Practical part covering Quantitative Analysis has been presented systematically to help students achieve solid conceptual understanding and learn experimental procedures *Instructor's Manual* Brian F.

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Fundamentals of Chemistry in the Laboratory Ralph A. Burns,1999 Computer, Intelligent Computing and Education Technology Hsiang-Chuan Liu,Wen-Pei Sung,Wenli Yao,2014-03-26 This proceedings set contains selected Computer Information and Education Technology related papers from the 2014 International Conference on Computer Intelligent Computing and Education Technology CICET 2014 held March 27 28 2014 in Hong Kong The proceedings aims to provide a platform for researchers engineers and academics as well as industry professionals from all over the world to present their research results and development activities in Computer Science Information Technology and Education Technology Explorations in Chemistry Nicholas Kildahl,Theresa Varco-Shea,1995-09-07 The experiments in this manual are designed in a discovery format and the majority require only small quantities of reagents **Exploring Physical Science in the Laboratory** John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts Chemistry for Degree Students B.Sc. Semester - I (As per CBCS) Madan R.L., This textbook has been designed to meet the needs of B Sc First Semester students of Chemistry as per the new UGC Model Curriculum Choice Based Credit System CBCS With its traditional approach to the subject this textbook lucidly explains principles of chemistry Important topics such as atomic structure chemical bonding molecular structure fundamentals of organic chemistry stereochemistry and aliphatic hydrocarbons are aptly discussed to give an overview of inorganic and organic chemistry Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures *Bioanalytical Techniques* Mr. Rohit Manglik,2024-05-17 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in

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