

TITRATION CURVES

Acid-base titration is a useful technique for determining the concentration of an acidic or basic solution. As you will see today, titration of a weak acid or base can also be used to determine the pK_a or pK_b for the acid/base. You have already been introduced to titration technique in previous labs. Today you will use a pH meter connected to a computer to generate a titration curve. A titration curve shows how the pH of a solution changes as acid or base is added. The shape of a titration curve is influenced by both the concentration and structure of the acid. You will see two different titration curves in today's lab.

A typical strong acid-strong base titration curve is shown in Figure 1 below. In this lab you will be titrating weak acids which look a bit different, but still have the steep section in the middle. In previous titration experiments you have determined the equivalence point of the titration by observing the color change of an indicator. When using a pH meter to monitor the titration, the endpoint is determined by the inflection point of the curve. This provides a more accurate determination of the equivalence point. The inflection point is the steepest part of the curve, and is also the point on the curve where the curvature changes. In calculus terms, this is the point where the second derivative equals zero.

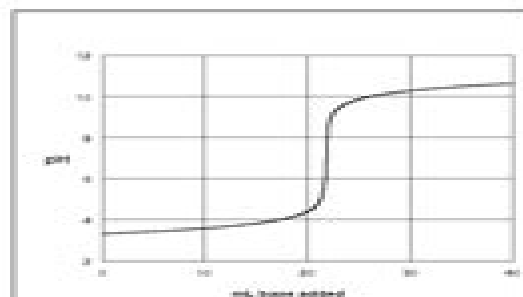


Figure 1: Strong acid-strong base titration curve

The LoggerPro program that you will be using to collect the data has a feature which will allow you to calculate and plot the second derivative of pH as a function of volume of base added. There is a [video](#) you can watch which goes over how to make this plot and find the endpoint.

In this lab you will work with a partner to complete two titrations. First you will titrate a weak acid (KHP) with a ~ 0.1 M sodium hydroxide solution. From the results of this

Titration Lab Manual

**Timea Gerczei Fernandez, Scott
Pattison**



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Manual Class XI | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum. Mr. Rohit Manglik, Mr. Kaushalesh Dwivedi, 2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable

Nielsen's Food Analysis Laboratory Manual B. Pam Ismail, S. Suzanne Nielsen, 2024-06-20 This fourth edition laboratory manual was written to accompany Nielsen's Food Analysis Sixth Edition by the same authors New to this fourth edition of the laboratory manual are three new chapters that complement both the textbook chapters and the laboratory exercises The book again contains four introductory chapters that help prepare students for doing food analysis laboratory exercises The 26 laboratory exercises in the manual cover 24 of the 35 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic Most of the laboratory exercises include the following background reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis **Cooperative Chemistry Lab Manual**

Cooper, 2005-02 The laboratory course described in the lab manual emphasizes experimental design data analysis and problem solving Inherent in the design is the emphasis on communication skills both written and oral Students work in groups on open ended projects in which they are given an initial scenario and then asked to investigate a problem There are no formalized instructions and students must plan and carry out their own investigations **Biochemistry Laboratory**

Manual For Undergraduates Timea Gerczei Fernandez, Scott Pattison, 2015-01-01 Biochemistry laboratory manual for undergraduates an inquiry based approach by Gerczei and Pattison is the first textbook on the market that uses a highly relevant model antibiotic resistance to teach seminal topics of biochemistry and molecular biology while incorporating the blossoming field of bioinformatics The novelty of this manual is the incorporation of a student driven real life research project into the undergraduate curriculum Since students test their own mutant design even the most experienced students remain engaged with the process while the less experienced ones get their first taste of biochemistry research Inclusion of a research project does not entail a limitation this manual includes all classic biochemistry techniques such as HPLC or enzyme kinetics and is complete with numerous problem sets relating to each topic **Quantitative Analysis Laboratory Manual**

Dr. Bupinderpal Singh, Dr. Bikramjit Singh, Mr. Akash Bans, 2025-06-29 *Laboratory Manual For Engineering Chemistry (For Bput)* Patra B.B., 2010-09 **Instructors Manual to Lab Manual** Ralph Petrucci, William Harwood, Geoffrey

Herring, 2001 *A Laboratory Manual for Environmental Chemistry* R. Gopalan, R. Wilfred Sugumar, 2013-12-30 The

present book is meant for the students who opt for a course in Environmental Chemistry with laboratory work as a component of the course Spread in 72 experiments the analyses of soil water and air have been described in a simple manner so that most of these experiments can be conducted even by the beginners in this subject The principles involved preparation of the reagents and the procedures are described for each experimental method The authors hope that this manual would prove to be useful in laboratories where soil water and air are routinely tested **Addison Wesley Chemistry 5th Edition Probeware Lab Manual 2002c** Antony C. Wilbraham, Dennis D. Staley, Michael S. Matta, Edward L. Waterman, Prentice-Hall Staff, 2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link

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Titration Lab Manual Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Titration Lab Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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