

50/50

Experiment 9 Prelaboratory Assignment

A Volumetric Analysis

Date 03/30

Desk No. _____

1. a. What is the titrant for this experiment?

NaOH (base), sodium hydroxide

- b. Is the indicator generally added to the titrant or the analyte in a titration?

The indicator, phenolphthalein, is added to the analyte, the acid.
It is colorless in an acid but pink in basic solutions.

2. a. What is the primary standard used in this experiment (name and formula)? Define a primary standard.

A primary standard is an accurate mass of a solid substance which is measured, dissolved in water, and then reacted.

↳ $\text{KHC}_8\text{H}_4\text{O}_4$, potassium hydrogen phthalate

- b. What is the secondary standard used in this experiment (name and formula)? Define a secondary standard.

A secondary standard is the standard remaining solution from after the molar concentration of the titrant is measured.

↳ NaOH, sodium hydroxide

3. Distinguish between a stoichiometric point and an endpoint in an acid-base titration.

reaction is complete
because amount
reactants that have
combined

when the indicator changes
colors due to the change
in pH

4. a. When rinsing a buret after cleaning it with soap and water, should the rinse be dispensed through the buret tip or the top opening of the buret? Explain.

The water and rinse should go through the tip. Solution will dispense through and help keep the concentration of the titrant the same.

- b. Experimental Procedure, Part A.4. In preparing the buret for titration, the final rinse is with the NaOH titrant rather than with deionized water. Explain.

The water can alter the values and the NaOH is hygroscopic.

5. Part A.3. Calculate the mass of $\text{KHC}_8\text{H}_4\text{O}_4$ (molar mass = 204.23 g/mol) that reacts with 15 mL of the 0.15 M NaOH solution prepared in Part A.2. Express this mass $\text{KHC}_8\text{H}_4\text{O}_4$ to the correct number of significant figures and record the calculation on the Report Sheet.

$$15 \text{ mL} = 0.015 \text{ L}$$

$$0.015 \text{ L (0.15 M)} = 0.00225 \text{ mol NaOH}$$

$$0.00225 \text{ mol NaOH} \cdot \frac{1 \text{ mol KHC}_8\text{H}_4\text{O}_4}{1 \text{ mol NaOH}} = 0.00225 \text{ mol KHC}_8\text{H}_4\text{O}_4$$

$$0.00225 \text{ mol KHC}_8\text{H}_4\text{O}_4 \times \left(\frac{204.23 \text{ g}}{1 \text{ mol}} \right) = \boxed{0.4595 \text{ g}}$$



General Chemistry Pre Lab Answers

Daniel R. Palleros



General Chemistry Pre Lab Answers:

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

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Laboratory Experiments for General Chemistry Harold R. Hunt, Toby F. Block, George M. McKelvy, 2002 This established manual focuses on using non hazardous materials to teach the experimental nature of general chemistry Experiments are written to address students of various academic backgrounds and differing interests and abilities in chemistry While most experiments can be conducted in a single three hour period some have been designed to be completed over an extended time to illustrate that chemical systems do not work at an arbitrary schedule Suggestions are provided for combining experiments of shorter length and similar pedagogy

Exemplary Science in Grades 9-12 Robert Eugene Yager, 2005 Essay titles reveal the range of programs and creativity this book encompasses The book ends with a summary chapter on successes and continuing challenges in meeting the Standards visions for improving high school science

Teaching and Learning in the School Chemistry Laboratory Avi Hofstein, Muhamad Hugerat, 2021-11-05 Research into the educational effectiveness of chemistry practical work has shown that the laboratory offers a unique mode of instruction assessment and evaluation Laboratory work is an integral and important part of the learning process used to encourage the development of high order thinking and learning alongside high order learning and thinking skills such as argumentation and metacognition Authored by renowned experts in the field of chemistry education this book provides a holistic approach to cover all issues related to learning and teaching in the chemistry laboratory With sections focused on developing the skill sets of teachers as well as approaches to supporting students in the laboratory the book offers a comprehensive look at vicarious instruction methods teacher and students roles and the blend with ICT simulations and other effective approaches to practical work The book concludes with a focus on retrospective issues followed up with a look to the future of laboratory learning A product of nearly fifty years of research this book will be useful for chemistry teachers curriculum developers researchers in chemistry education and professional development providers *The Internet, Distance Learning, and the Future of the Research University* United States. Congress. House. Committee on Science. Subcommittee on Basic Research, 2000 Resources in Education , 1998 **Summer Session General Announcement** Iowa State College, 1912 General Catalogue Berea College, 1916 **Experimental Organic Chemistry** Daniel R. Palleros, 2000-02-04 This cutting edge lab manual takes a multiscale approach presenting both micro semi micro and macroscale techniques The manual is easy to navigate with all relevant techniques found as they are needed Cutting edge subjects such as HPLC bioorganic chemistry multistep synthesis and more are presented in a clear and engaging fashion

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