

## CHM 101 Experiment # 1 The Use of Volumetric Glassware

### Objective

- To practice the handling of various lab glassware and making common volumetric and mass measurements.

### Introduction

#### 1. Volumetric Glassware

In the general chemistry lab, you will get in contact with various pieces of laboratory glassware such as: beakers, Erlenmeyer Flasks, graduated cylinders, pipets, burettes, ...etc. Some of these pieces (e.g. beakers, Erlenmeyer flasks, graduated cylinders) are mainly used to hold liquids during experiments and thus are known as To Contain (TC). Others like pipets and burettes are used to measure and deliver specific volumes of liquids and are known as To Deliver (TD). Based on this, laboratory glassware can be divided into two main types:

- those that are manufactured to **contain** (TC) certain volumes
- those that are manufactured to **deliver** (TD) certain volumes

- 1. Graduated Cylinder:** A graduated cylinder is used to measure and transfer variable volume of liquids. It can be plastic or glass and is available in various sizes. In our lab, graduated cylinders are considered a TC type of glassware.



*How to read volume in graduated cylinder?*

Whenever a liquid is contained in a narrow glass container, the top surface of the liquid takes a concave or convex form. This is called the *meniscus*. This curved surface is formed due to interactions between molecules of the liquid and the molecules of the container wall. To measure the volume in a

graduated cylinder, you must first place it on a flat surface. Then, carefully read the bottom of the meniscus at eye level. If necessary, place a piece of white paper behind the glass container to view the meniscus clearly.

- 2. Beaker:** A beaker is a specialized piece of glassware designed to contain (TC) and make approximate volume measurements. The scale printed on the beaker is not very precise. The reading is done at the meniscus at eye level.



- 3. Burette:** A burette is a very tall glass tube with marked graduations in 0.1 mL increments that allow for precise volume readings to the nearest 0.01 mL with estimation. It is a delicate piece of glassware designed to deliver (TD) variable, yet precise volume of liquid. It is fitted with a stopcock at its base. A burette is delicate



# Ch 101 Lab Manual Answers

**Judd E. Hollander**



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## **Table of Contents Ch 101 Lab Manual Answers**

1. Understanding the eBook Ch 101 Lab Manual Answers
  - The Rise of Digital Reading Ch 101 Lab Manual Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Ch 101 Lab Manual Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ch 101 Lab Manual Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ch 101 Lab Manual Answers
  - Personalized Recommendations
  - Ch 101 Lab Manual Answers User Reviews and Ratings
  - Ch 101 Lab Manual Answers and Bestseller Lists
5. Accessing Ch 101 Lab Manual Answers Free and Paid eBooks
  - Ch 101 Lab Manual Answers Public Domain eBooks
  - Ch 101 Lab Manual Answers eBook Subscription Services
  - Ch 101 Lab Manual Answers Budget-Friendly Options

6. Navigating Ch 101 Lab Manual Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Ch 101 Lab Manual Answers Compatibility with Devices
  - Ch 101 Lab Manual Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ch 101 Lab Manual Answers
  - Highlighting and Note-Taking Ch 101 Lab Manual Answers
  - Interactive Elements Ch 101 Lab Manual Answers
8. Staying Engaged with Ch 101 Lab Manual Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ch 101 Lab Manual Answers
9. Balancing eBooks and Physical Books Ch 101 Lab Manual Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ch 101 Lab Manual Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ch 101 Lab Manual Answers
  - Setting Reading Goals Ch 101 Lab Manual Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ch 101 Lab Manual Answers
  - Fact-Checking eBook Content of Ch 101 Lab Manual Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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