

CHEMICAL QUANTITIES

Practice Problems

On a piece of paper, solve the following problems.

YOU MUST SHOW YOUR WORK TO GET CREDIT FOR YOUR ANSWERS!!!

SECTION 10.1 THE MOLE: A MEASUREMENT OF MATTER

- What is the molar mass of sucrose (C₁₂H₂₂O₁₁)?
- 2. What is the molar mass of each of the following compounds?
 - a, phosphorus pentachloride (PCI-)
 - b. uranium hexafluoride (UF₄)
- 3. Calculate the molar mass of each of the following ionic compounds:
 - a. KMinO₄
 - b. Cas(PO₄):
- 4. How many moles is 3.52 × 1024 molecules of water?
- 5. How many atoms of zinc are in 0.60 mol of zinc?
- 6. What is the mass of 1.00 mol of exygen (O2)?

SECTION 10.2 MOLE-MASS AND MOLE-VOLUME RELATIONSHIPS

- 1. What is the molar mass of each of the following compounds?
 - a. CaHagOa

b. NaHCOs.

e. Calling

d. KNH4SO₄

- 2. Calculate the mass in grams of each of the following:
 - a. 8.0 mol lead oxide (PbO).

- d. 1.50 × 10⁻² mol molecular oxygen (O₅)
- b. 0.75 mol hydrogen sulfide (H₂S)

- e. 2.30 mol ethylene glycol (C₂H₂O₂)
- e. 0.00100 mol silicon tetrahydride (SiH₄).
- How many grams are in 1.73 mol of dinitrogen pentoxide (N₂O₂)?
- How many grams are in 0.658 mol of calcium phosphate [Ca₂(PO₄)₂]?
- 5. Calculate the number of moles in each of the following:
 - a. 0.50 g sodium bromide (NaBr).

- d, 0.00100 g monochloromethane (CH₂CI)
- b. 13.5 g magnesium nitrate [Mg(NO₁)₂]
- e. 1.50 × 10⁻³ g propylene glycol [C₃H₄(OH)₂]
- e. 1.02 g magnesium chloride (MgCl₂)
- 6. A chemist plans to use 435.0 grams of ammonium nitrate (NH₄NO₅) in a reaction. How many moles of the compound is this?
- 7. A solution is to be prepared in a laboratory. The solution requires 0.0465 mol of quinine (C₂₀H₂₄N₂O₂). What mass, in grams, should the laboratory technician obtain in order to make the solution?
- 8. What is the volume at STP of 2.66 mol of methane (CHa) gas?
- 9. How many moles is 135 L of ammonia (NH₃) gas at STP?

Chemistry Section 10 Study Guide Chemical Quantities

Donald J. Wink, Sharon Fetzer-Gislason, Sheila McNicholas

Chemistry Section 10 Study Guide Chemical Quantities:

Study Guide for Introductory Chemistry Iris Stovall,1990 Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter,2012-01-03 The 9th edition of Malone s Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter

Study Guide for Introductory Chemistry, a Foundation, Introductory Chemistry, Basic Chemistry Iris Study Guide to Accompany Basics for Chemistry Martha Mackin, 2012-12-02 Study Stovall.Steven S. Zumdahl.1996 Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students Study Guide, Introductory Chemistry, a Foundation ; Introductory Chemistry; Basic Chemistry Iris Stovall, Donald J. DeCoste, 2000 Chemistry, Student Study Guide James E.

Brady,Fred Senese,2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

<u>Study Guide/Selected Solutions Manual Julie R. Frentrup, 2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book</u>

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Unveiling the Magic of Words: A Report on "Chemistry Section 10 Study Guide Chemical Quantities"

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