

10**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

1. What is the molar mass of sucrose ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$)?
2. What is the molar mass of each of the following compounds?
 - a. phosphorus pentachloride (PCl_5)
 - b. uranium hexafluoride (UF_6)
3. Calculate the molar mass of each of the following ionic compounds:
 - a. KMnO_4
 - b. $\text{Ca}_3(\text{PO}_4)_2$
4. How many moles is 3.52×10^{24} 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 oxygen (O_2)?

SECTION 10.2 MOLE–MASS AND MOLE–VOLUME RELATIONSHIPS

1. What is the molar mass of each of the following compounds?
 - a. $\text{C}_6\text{H}_{12}\text{O}_6$
 - b. NaHCO_3
 - c. C_3H_8
 - d. KNH_4SO_4
2. Calculate the mass in grams of each of the following:
 - a. 8.0 mol lead oxide (PbO)
 - b. 0.75 mol hydrogen sulfide (H_2S)
 - c. 0.00100 mol silicon tetrahydride (SiH_4)
 - d. 1.50×10^{-2} mol molecular oxygen (O_2)
 - e. 2.30 mol ethylene glycol ($\text{C}_2\text{H}_6\text{O}_2$)
3. How many grams are in 1.73 mol of dinitrogen pentoxide (N_2O_5)?
4. How many grams are in 0.658 mol of calcium phosphate [$\text{Ca}_3(\text{PO}_4)_2$]?
5. Calculate the number of moles in each of the following:
 - a. 0.50 g sodium bromide (NaBr)
 - b. 13.5 g magnesium nitrate [$\text{Mg}(\text{NO}_3)_2$]
 - c. 1.02 g magnesium chloride (MgCl_2)
 - d. 0.00100 g monochloromethane (CH_3Cl)
 - e. 1.50×10^{-3} g propylene glycol [$\text{C}_3\text{H}_8(\text{OH})_2$]
6. A chemist plans to use 435.0 grams of ammonium nitrate (NH_4NO_3) 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 ($\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_2$). 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 (CH_4) gas?
9. How many moles is 135 L of ammonia (NH_3) gas at STP?

Ch10 Study Guide Chemistry

Susan McMurry



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CBSE Class 12 Chemistry English Story Chapter 10 Priti Singhal, 2024-11-11 This book is structured to align with the latest syllabus and curriculum guidelines ensuring the content is relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging *Student Study Guide Fundamentals of Chemistry* by David E. Goldberg Margaret G. Kimble, 1994 **Study**

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