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histamine causes chlation of blood vessels and swelling due to accumulation of quid in the tissues people sometimes take antihistamine drugs to counteract the effects of histamine a sample histamine having a mass 385 mg is composed of 208 mg of carbon 31 mg hydrogen and mg nitrogen

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one of the chemicals that gives lavender its pleasant smell is called linalool c 10 h 18 o if a sample of lavender contained 9 14 x 10 5 grams of linalool calculate the number of moles of linalool in the sample

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chapter 10 chemical quantities basics the basic unit that is used to determine the amount of a chemical substance is called a mole a mole mol of a substance is equivalent to 6 02 x 1023 particles of that substance

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in the lab we look at changes in matter that deal with billions of atoms at a time how can we keep track of so many atoms and molecules during the reaction process in this chapter we will be describing and quantifying chemical changes via stoichiometry or element counting

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the atomic mass of an element expressed in grams is the mass of a mole of the element to calculate the molar mass of a compound find the number of grams of each element in one mole of the compound then add the masses of the elements in the compound

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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

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this chapter will describe how to symbolize chemical reactions using chemical equations how to classify some common chemical reactions by identifying patterns of reactivity and how to determine the quantitative relations between the amounts of substances involved in chemical reactions that is the reaction stoichiometry

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chemical equations also provide us with the relative number of particles and moles that react to form products in this section you will explore the quantitative relationships that exist between the quantities of reactants and products in a balanced equation this is known as stoichiometry

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use the chemical formula to find the number of atoms in one molecule and multiply the number by avogadro s number the number of particles in one mole atomic oxygen representative particle atom chemical formula o representative particles in 1 00 mol 6 02 x 10 23 oxygen gas

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