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The mole is the most common unit used to express the quantity of a chemical substance. For all solids, liquids, and gases, you can convert mass to moles (or moles to mass). For gases, you should memorize the following conversion of volume to moles (or moles to volume): at 0°C and 1 atmosphere pressure (known as standard temperature and pressure or STP), one mole of any gas occupies approximately 22.4 liters.

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Avogadro's principle tells us that 1 mole is equal to  $6.022 \times 10^{23}$  atoms of a pure substance. This will be important to know when converting from grams to moles to atoms. Now that we have learned the basics, let's try converting a sample of 50.0 grams of CO<sub>2</sub> between units. CO<sub>2</sub> - Converting from Grams to Moles

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The answers are listed below. 1.  $4.00 \text{ moles} (6.02 \times 10^{23} \text{ molecules} / 1 \text{ mole}) = 2.41 \times 10^{24} \text{ molecules}$ . 2.  $0.750 \text{ moles Zn} (6.02 \times 10^{23} \text{ atoms} / 1 \text{ mole}) = 4.42 \times 10^{23} \text{ atoms Zn}$ . 3.  $452 \text{ g Ar} \times (1 \text{ mol Ar} / 39.95 \text{g}) = 11.3 \text{ moles Ar}$ . 4.  $0.05 \text{ mol} \times (22.4 \text{ L} / 1 \text{ mol}) = 1.12 \text{ L}$ .

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Chemistry Study Guide The Mole Answers atoms, molecules, or ions as the number of atoms in 12 grams of carbon-12 (which is Avogadro's number, or  $6.022 \times 10^{23}$ ). Avagadro's number. the constant,  $6.022 \times 10^{23}$ , representing the number of atoms, molecules, or ions in one mole of a substance. Moles Study Guide Chemistry Flashcards | Quizlet Page 11/26

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160 Study Guide for An Introduction to Chemistry Exercise 10.2 - Limiting Reactant: The uranium(IV) oxide,  $\text{UO}_2$ , which is used as fuel in nuclear power plants, has a higher percentage of the fissionable isotope uranium-235 than is present in the  $\text{UO}_2$  found in nature. To make fuel-grade  $\text{UO}_2$ , chemists first convert uranium oxides to uranium hexafluoride,  $\text{UF}_6$ , whose concentration of uranium-235 can ...

Chapter 10 Chemical Calculations and Chemical Equations

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