

MIXED MOLE PROBLEMS

Name Luigi L. Zebrowski

Solve the following problems.

1. How many grams are there in 1.5×10^{25} molecules of CO_2 ?

$$\frac{12.01}{+2 \times 16.00} \\ \hline 44.01$$

$$1.5 \times 10^{25} \text{ mol CO}_2 \times$$

$$6.023 \times 10^{23} \text{ molecules CO}_2$$

2. What volume would the CO_2 in Problem 1 occupy at STP?

3. A sample of NH_3 gas occupies 75.0 liters at STP. How many molecules is this?

4. What is the mass of the sample of NH_3 in Problem 3?

5. How many atoms are there in 1.3×10^{22} molecules of NO_2 ?

6. A 5.0 g sample of O_2 is in a container at STP. What volume is the container?

7. How many molecules of O_2 are in the container in Problem 6? How many atoms of oxygen?

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