

Mole Conversions Worksheet

Solve the following; express your answer using the proper amount of significant figures.

1. How many moles of magnesium are in 3.01×10^{22} atoms of magnesium?
0.0500 moles of magnesium
2. How many molecules are there in 4.00 moles of glucose, $C_6H_{12}O_6$?
 2.41×10^{24} molecules of glucose
3. How many moles are 1.20×10^{25} atoms of phosphorous?
19.9 moles of phosphorous
4. How many moles are in 28 grams of CO_2 ?
0.64 moles of carbon dioxide
5. What is the mass of 5 moles of Fe_2O_3 ?
 8×10^2 grams of iron (III) oxide
6. Find the number of moles of argon in 452 g of argon.
11.3 moles of Argon
7. Find the mass in grams of 2.00×10^{23} molecules of F_2 .
12.6 grams of difluorine
8. Find the mass, in grams, of 1.00×10^{23} molecules of N_2 .
4.65 grams of dinitrogen
9. How many particles are there in 1.43 g of a molecular compound with a molar mass of 233 g? **3.70×10^{21} particles**
10. Aspartame is an artificial sweetener that is 160 times sweeter than sucrose (table sugar) when dissolved in water. The molecular formula of aspartame is $C_{14}H_{18}N_2O_5$.
 - a. Calculate the molar mass of aspartame.
294.34 grams/mole
 - b. How many moles are in 10 g of aspartame?
0.03 moles of aspartame
 - c. How many molecules are in 5 mg of aspartame?
 1×10^{19} molecules of aspartame
 - d. What is the mass, in grams, of 1.56 moles of aspartame?
459 grams of aspartame
 - e. How many atoms of nitrogen are in 1.2 grams of aspartame?
 4.9×10^{21} atoms of nitrogen

Moles And Mass Answer Key

Patrick Vollmar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Moles And Mass Answer Key:

Unveiling the Magic of Words: A Overview of "**Moles And Mass Answer Key**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Moles And Mass Answer Key**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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