

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

Skill Practice 31 Answer Key Moles And Formulas

H Kauffman



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Prentice Hall Chemistry, 2000 *Objective NCERT Xtract Chemistry for NEET/ JEE Main 5th Edition* Disha Experts,
Fundamentals of Engineering Thermodynamics Michael J. Moran, Howard N. Shapiro, Daisie D. Boettner, Margaret B. Bailey, 2020-06-23
Fundamentals of Engineering Thermodynamics 9th Edition sets the standard for teaching students how to be effective problem solvers Real world applications emphasize the relevance of thermodynamics principles to some of the most critical problems and issues of today including topics related to energy and the environment biomedical bioengineering and emerging technologies *Engineering*, 1921

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