

The Mole Study Guide

Mass Composition: What's your element's %? given after the decimal? Molar mass to obtain your value!

10. There are 3.75 moles of CO_2 .

11. There are _____ moles of _____.

12. There are _____ moles of _____.

13. There are _____ moles of _____.

14. There are 2.5 moles of _____.

15. There are _____ moles of _____.

16. There are _____ moles of _____.

17. There are _____ moles of _____.

18. There are 4.5 moles of _____.

19. There are _____ moles of _____.

20. There are _____ moles of _____.

21. There are 3.5 moles of _____.

22. There are _____ moles of _____.

23. There are _____ moles of _____.

24. There are 2.5 moles of _____.

25. There are _____ moles of _____.

26. There are _____ moles of _____.

Name _____ Period _____ Date _____

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Fill in the Blank boxes for the image below.



Write the Empirical Formula for each compound. Use subscripts to show the relative ratio of atoms.

Molecular	Empirical
$\text{C}_6\text{H}_{12}\text{O}_6$	
$\text{C}_4\text{H}_8\text{O}_4$	
$\text{C}_2\text{H}_4\text{O}_2$	
$\text{C}_3\text{H}_6\text{O}_3$	
$\text{C}_5\text{H}_{10}\text{O}_5$	

Calculate the Molar Mass for the following compounds.

10. H_2O

11. NaCl

12. H_2SO_4

13. Na_2CO_3

Calculate the Percent Composition for each element in the following compound.

10. H_2O

11. NaCl

12. H_2SO_4

13. Na_2CO_3

14. H_2SO_4

15. Na_2CO_3

Determine the Empirical and Molecular Formula for the compound given the information below.

10. A compound has the following percent composition: 40.00% Hg, 21.87% Cl, 3.75% N, and 34.37% O. The molar mass for Astatine is 210.0 g/mol.

a. If you have 100 g of Astatine, how many grams of Hg, Cl, and O do you have?

b. Determine the Empirical Formula for Astatine.

c. Determine the Molecular Formula for Astatine.

Study Guide The Mole

Stanley Johnson



Study Guide The Mole:

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Student Study Guide and Solutions Manual for General Physics Morton M. Sternheim, 1986 **Study Guide for Chemical Principles [by] Steven S. Zumdahl** Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples *Study Guide for Chemical Principles* Thomas Elliott Taylor, 1979 *Study Guide for Chemistry, Third Edition [by] Steven S. Zumdahl* Paul B. Kelter, 1993

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