

# Stoichiometry

## Lecture Examples Answer Key

Ex. 1 Balance the following chemical equations:



Ex. 2 Write a balanced chemical reaction for the combustion of octane,  $\text{C}_8\text{H}_{18(l)}$ , in air.



Ex. 3 Write the balanced chemical equation for the combination of the metallic element calcium with the nonmetallic element oxygen,  $\text{O}_2$ .



Ex. 4 Calculate the molecular weight of

(a)  $\text{N}_2\text{O}_5$  **MW = 108.0104 g mol<sup>-1</sup>**

(b)  $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$  **MW = 158.167 g mol<sup>-1</sup>**

(c)  $[\text{K}_2(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 3\text{H}_2\text{O}]$  **MW = 902.1758 g mol<sup>-1</sup>**

Ex. 5 Calculate the percentage by mass of oxygen in 4a and 4b above.

(a)  $[(5 \times 15.9994 \text{ g mol}^{-1}) / 108.0104 \text{ g mol}^{-1}] \times 100\% = \mathbf{74.0642\%}$

(b)  $[(4 \times 15.9994 \text{ g mol}^{-1}) / 158.167 \text{ g mol}^{-1}] \times 100\% = \mathbf{40.4620\%}$

Ex. 6 (a) Calculate the number of O atoms in 0.470 mol of  $\text{C}_6\text{H}_{12}\text{O}_6$ .

$$\begin{aligned} \# \text{ O atoms} &= (0.470 \text{ mol } \text{C}_6\text{H}_{12}\text{O}_6)(6.022 \times 10^{23} \text{ molecules/1 mol})(6 \text{ O atoms / 1 molecule}) \\ &= \mathbf{1.70 \times 10^{24} \text{ O atoms}} \end{aligned}$$

(b) Calculate the total number of ions in 38.1 g of  $\text{CaF}_2$ .

$$\begin{aligned} \# \text{ ions} &= (38.1 \text{ g } \text{CaF}_2)(1 \text{ mol} / 78.075 \text{ g})(6.022 \times 10^{23} \text{ molecules/1 mol})(3 \text{ ions / 1 molecule}) \\ &= \mathbf{8.82 \times 10^{23} \text{ ions}} \end{aligned}$$

Ex. 7 (a) What is the mass in grams of 1 mol of glucose,  $\text{C}_6\text{H}_{12}\text{O}_6$ ?

$$\text{mass} = (1 \text{ mol})(180.1572 \text{ g/1 mol}) = \mathbf{180.1572 \text{ g}}$$

(b) What is the mass in grams of 3.52 mol of chromium(III) sulfate decahydrate?

# Stoichiometry Problems Chemistry Answers

**Neil D. Jespersen, Pamela Kerrigan**



## **Stoichiometry Problems Chemistry Answers:**

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material      **Intelligent Tutoring Systems** Mitsuru Ikeda, Kevin Ashlay, Tak-Wai Chan, 2006-06-21 This book constitutes the refereed proceedings of the 8th International Conference on Intelligent Tutoring Systems ITS 2006 held in Jhongli Taiwan June 2006 The book presents 67 revised full papers and 40 poster papers together with abstracts of 6 keynote talks organized in topical sections on assessment authoring tools bayesian reasoning and decision theoretic approaches case based and analogical reasoning cognitive models collaborative learning e learning and web based intelligent tutoring systems and more      Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner      **Chemistry for Nerds Guide Book: Chemistry, Science, Nerd, Geek, Textbook, Guidebook, Study Guide, Educational, STEM, Science Gift** Matt Kingsley, Calling all curious minds and science enthusiasts Are you fascinated by the invisible forces that shape our world Do you crave a deeper understanding of the elements molecules and reactions that make up everything around us Then look no further than Chemistry for Nerds Unleash Your Inner Mad Scientist This isn't your typical boring textbook This is a thrilling adventure through the captivating world of chemistry written in a way that's engaging accessible and downright fun Inside these pages you'll discover The secrets of matter From atoms and molecules to the states of matter and the laws that govern them The magic of reactions Explore the explosive world of chemical reactions from kinetics and equilibrium to acids bases and buffers The wonders of the elements Unravel the mysteries of the periodic table and the trends that connect its diverse inhabitants The power of chemistry in action See how chemistry shapes our environment fuels our technologies and even sustains life itself Chemistry for Nerds is packed with Crystal clear explanations Complex concepts are broken down into bite sized pieces making even the most challenging topics easy to grasp Engaging examples and analogies Relate chemistry to everyday life with fun and memorable examples Expert practical tips Put your knowledge into action with helpful tips and tricks for

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*Open-Ended Problems* James Patrick Abulencia, Louis Theodore, 2015-03-27 This is a unique book with nearly 1000 problems and 50 case studies on open ended problems in every key topic in chemical engineering that helps to better prepare chemical engineers for the future The term open ended problem basically describes an approach to the solution of a problem and or situation for which there is not a unique solution The Introduction to the general subject of open ended problems is followed by 22 chapters each of which addresses a traditional chemical engineering or chemical engineering related topic Each of these chapters contain a brief overview of the subject matter of concern e g thermodynamics which is followed by sample open ended problems that have been solved by the authors employing one of the many possible approaches to the solutions This is then followed by approximately 40 45 open ended problems with no solutions although many of the authors solutions are available for those who adopt the book for classroom or training purposes A reference section is included with the chapter s contents Term projects comprised of 12 additional chapter topics complement the presentation This book provides academic industrial and research personnel with the material that covers the principles and applications of open ended chemical engineering problems in a thorough and clear manner Upon completion of the text the reader should have acquired not only a working knowledge of the principles of chemical engineering but also and more importantly experience in solving open ended problems What many educators have learned is that the applications and implications of open ended problems are not only changing professions but also are moving so fast that many have not yet grasped their tremendous impact The book drives home that the open ended approach will revolutionize the way chemical engineers will need to operate in the future

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