

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, O_2 .



Ex. 4 Calculate the molecular weight of

(a) N_2O_5 **MW = 108.0104 g mol⁻¹**

(b) $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$ **MW = 158.167 g mol⁻¹**

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

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 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 In Chemistry And Answers

Purshotam Kaushik & Kirti Kaushik



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Muallim,101-01-01 Chapter 1 The Fascinating World of Chemistry Jammy Welcome Canny I m thrilled to embark on this journey with you to explore the captivating world of chemistry It s a subject that touches almost every aspect of our lives from the air we breathe to the food we eat Canny Thank you Jammy I m excited to dive into this fascinating realm of science Chemistry seems to have a hand in everything and I m eager to learn more about its wonders Jammy Absolutely So let s start at the beginning Chemistry is the scientific study of matter and its interactions Matter is anything that has mass and occupies space Everything around us from the tiniest particle to the vast universe is made up of matter Canny That s incredible But what about the tiniest building blocks of matter Jammy Great question At the heart of chemistry lies the

concept of atoms Atoms are the fundamental units of matter and they consist of a nucleus containing protons and neutrons surrounded by electrons Each element on the periodic table is defined by the number of protons in its nucleus Canny So elements are like a unique fingerprint for the matter Jammy Exactly There are over a hundred known elements and they combine in various ways to form compounds These compounds can be as simple as water H_2O or as complex as DNA Canny I ve heard of the periodic table Is it like a cheat sheet for chemistry Jammy You got it The periodic table organizes elements based on their properties and atomic numbers It helps us understand the relationships between different elements and their behaviors in chemical reactions Canny Chemical reactions That sounds exciting How do they work Jammy Chemical reactions occur when atoms rearrange to form new substances with different properties It s like a dance of atoms where they break old bonds and create new ones Canny I can visualize that Are there different types of chemical reactions Jammy Indeed There are various types such as synthesis decomposition single replacement and double replacement reactions Each type has unique characteristics and applications Canny Chemistry seems like a puzzle with all these pieces coming together Jammy That s a great analogy And speaking of puzzles we have to mention acids and bases They play a vital role in chemistry and can be found in many everyday substances Canny I ve heard of acids and bases They have something to do with the pH scale right Jammy Exactly The pH scale measures the acidity or basicity of a substance It ranges from 0 to 14 with 7 being neutral Substances with a pH less than 7 are acidic while those with a pH greater than 7 are basic Canny I m starting to see how chemistry is all around us shaping the world we live in Jammy Absolutely Chemistry influences everything from the food we eat the medicines we take the materials we use and even the air we breathe It s a central science that connects many other fields of study Canny This is truly captivating I can t wait to learn more about the wonders of chemistry and delve into its intricacies Jammy I m thrilled that you re so enthusiastic Canny In the upcoming chapters we ll explore topics like thermodynamics organic chemistry chemical kinetics and even the cutting edge world of quantum chemistry Canny I m ready for the adventure Let s uncover the mysteries of the fascinating world of chemistry together Jammy Jammy You bet Get ready for an amazing journey into the heart of matter and the magic of molecules Chemistry awaits

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

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