

Chemistry Student Edition - Basic Answer Key

Chapter 11: Chemical Reactions

Chemical Equations

Questions

1. Early Chinese alchemists discovered an early form of gunpowder. What was the composition of this substance?
2. What later developments were made to the gunpowder recipe that improved its pyrotechnic properties?
3. Make an argument for why the burning of a candle is consistent with the law of conservation of matter/mass.
4. Think of an experiment that you could conduct to demonstrate that mass is conserved for a given chemical change.
5. Balance the following chemical equations:
 - a. $\text{C} + \text{O}_2 \rightarrow \text{CO}$
 - b. $\text{CO} + \text{O}_2 \rightarrow \text{CO}_2$
 - c. $\text{H}_2 + \text{Br}_2 \rightarrow \text{HBr}$
 - d. $\text{K} + \text{H}_2\text{O} \rightarrow \text{KOH} + \text{H}_2$
 - e. $\text{O}_3 \rightarrow \text{O}_2$
 - f. $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
 - g. $\text{Zn} + \text{AgCl} \rightarrow \text{ZnCl}_2 + \text{Ag}$
 - h. $\text{Cl}_2 + \text{NaI} \rightarrow \text{NaCl} + \text{I}_2$
 - i. $\text{P}_4\text{O}_{10} + \text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_4$
 - j. $\text{Be}_2\text{C} + \text{H}_2\text{O} \rightarrow \text{Be}(\text{OH})_2 + \text{CH}_4$
 - k. $\text{S} + \text{HNO}_3 \rightarrow \text{H}_2\text{SO}_4 + \text{NO}_2 + \text{H}_2\text{O}$
 - l. $\text{NH}_3 + \text{CuO} \rightarrow \text{Cu} + \text{N}_2 + \text{H}_2\text{O}$
 - m. $\text{HCl} + \text{CaCO}_3 \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$

Answers

1. Early gunpowder was comprised of saltpeter (impure potassium nitrate), sulfur, and charcoal (carbon).
2.
 - a. Purification of potassium nitrate
 - b. Using potassium chlorate instead of potassium nitrate
 - c. Further refinement of the recipe to find the proportions of reactants that yielded the most energetic reaction
3. The burning of a candle obeys the law of conservation of mass because, even though the mass of the candle will decrease as it burns, the mass is not lost. It is transferred into carbon dioxide and water that enter the surrounding air.
4. The reaction between iron and oxygen to produce rust could be studied as an example of conservation of mass. Steel wool could be placed into a covered beaker containing water. The reaction would proceed over time and rust would begin to form. The beaker could be weighed before and after the change. The mass would be the same, even though a new

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Organic Synthesis Michael Smith, 2024-08-13 Organic Synthesis 5e provides a reaction based approach to this important branch of organic chemistry Updated and accessible this eagerly awaited revision offers a comprehensive foundation for graduate students coming from disparate backgrounds and knowledge levels to provide them with critical working knowledge of basic reactions stereochemistry and conformational principles This reliable resource uniquely incorporates molecular modeling content problems and visualizations and includes reaction examples and homework problems drawn from the latest in the current literature There have been advancements in organic reactions particularly organometallic reactions and there is a need to show how these advancements have influenced current organic synthesis The goal is to revise and update the examples of reaction examples taken from the synthesis literature from about 2017 2023 The reactions illustrate those that are used most often in modern organic synthesis but recent examples will show their current relevance Where new approaches and new reactions have been developed for organic synthesis examples will be added as new material Provides new content reaction examples and study problems from recent research Features improved organization new art and new chapter content on process chemistry and green organic chemistry Includes revised homework for each chapter with new examples and questions

A TEXTBOOK OF METALLURGICAL KINETICS GHOSH, AHINDRA, GHOSH, SUDIPTO, 2014-01-01 Mechanical kinetics constitutes one of the basic subjects for Metallurgical Engineering This well written book presents the subject of kinetics of metallurgical processes in a compressive fashion Organized into 14 chapters the book begins with an introduction of the broad basic concepts It then discusses the kinetics of homogeneous and heterogeneous chemical reactions with some real life examples from the metallurgical field The book adequately covers the

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Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein, Laurie S. Starkey, 2025-03-04 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

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Organic Chemistry Michael B. Smith, 2016-03-09 Based on the premise that many if not most reactions in organic chemistry can be explained by variations of fundamental acid base concepts Organic Chemistry An Acid Base Approach provides a framework for understanding the subject that goes beyond mere memorization Using several techniques to develop a relational understanding it helps students fully grasp the essential concepts at the root of organic chemistry This new edition was rewritten largely with the feedback of students in mind and is also based on the author's classroom experiences using the first edition Highlights of the Second Edition Include Reorganized chapters that improve the presentation of material Coverage of new topics such as green chemistry Adding photographs to the lectures to illustrate and emphasize important concepts A downloadable solutions manual The second edition of Organic Chemistry An Acid Base Approach constitutes a significant improvement upon a unique introductory technique to organic chemistry The reactions

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Chemical Engineering Catalog ,1919 *Ceramic Abstracts* ,1929

Unveiling the Magic of Words: A Review of "**Chapter 11 Chemical Reactions Workbook Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Chapter 11 Chemical Reactions Workbook Answers**," a mesmerizing literary masterpiece penned with 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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