

# KEY

## Unit 9 Outline- Thermodynamics, Reaction Rates, & Chemical Equilibrium Chapters 17 & 18

### Essential Skills/ State Standards:

- 9-1. Describe how temperature and heat flow in terms of the motion of molecules (or atoms). (CSS: 7a)  
 9-2. Know that chemical processes & phase changes can either release energy (exothermic) or absorb energy (endothermic). (CSS: 7b, 7c)  
 9-3. Solve problems involving heat flow and temperature changes, using known values of specific heat ( $q = m \cdot c \cdot \Delta T$ ) & latent heat of phase change ( $q = m \cdot \Delta H$ ). (CSS: 7d)  
 9-4. Know the rate of reaction is the decrease in concentration of reactants or the increase in concentration of products with time & depends on such factors as: concentration, temperature, and pressure. (CSS: 8a, 8b)  
 9-5. Know the definition and role of activation energy & catalyst in a chemical reaction. (CSS: 8d\*, 8c)  
 9-6. Know how to use Le Chatelier's principle to predict the effect of changes in concentration, temperature, and pressure. (CSS: 9a)  
 9-7. Know that equilibrium is established when the forward and reverse reaction rates are equal. (CSS: 9b)

### Vocabulary

- |                |                   |  |                            |
|----------------|-------------------|--|----------------------------|
| • Condensation | • Deposition      | • Calorimeter                                  | • Heat of reaction         |
| • Freezing     | • Heat            | • Joule  | • Le Chatelier's principle |
| • Vaporization | • Temperature     | • Specific heat                                | • Equilibrium              |
| • Melting      | • Thermochemistry | • $q = m \cdot c \cdot \Delta T$               | • Activation Energy        |
| • Boiling      | • Exothermic      | • $q = m \cdot \Delta H_{\text{vaporization}}$ | • Catalyst                 |
| • Sublimation  | • Endothermic     | • $q = m \cdot \Delta H_{\text{fusion}}$       |                            |

### Study Guide (Use notes, worksheets, and labs in addition to this study guide)

1. According to the collision theory, what 3 things must happen in order for two molecules to react?  
 Must collide with each other, Must collide with enough energy, & in the correct orientation

2. What is the importance of the activation energy in a chemical reaction?  
 Amount of energy needed for a reaction to occur.

3. Using the collision theory, explain if the following would increase/ decrease the rate of reaction:  
 $2 \text{HCl(aq)} + \text{Mg(s)} \rightarrow \text{MgCl}_2\text{(aq)} + \text{H}_2\text{(g)}$

- a. Increase temp: Increase, molecules collide more  
 b. Increase HCl: Increase, more collisions because more reactants to collide  
 c. Increase pressure: Hard to say, wouldn't affect the reactants directly because none of them are gases.

One of the products is a gas, so it might cause the gas particles to collide more with the reactants and could slow it down. Tough call.. (this one won't be on the test).

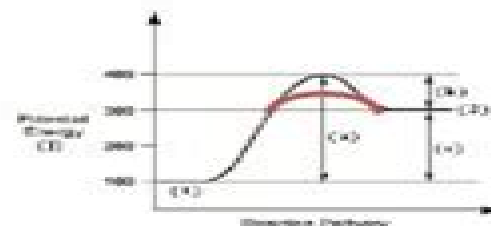
- d. Remove  $\text{MgCl}_2$ : Increase, less products means less chance for them to interfere with reactant collisions  
 e. Add  $\text{H}_2$ : Decrease, more products mean they interfere more with reactants and the reactants would collide less.

4. Identify the following terms with their correct letter from the graphs:

- \* Reactants- 1  
 \* Products- 2  
 \* Activation energy (number/ letter & amount)-  
 A (300 Joules)  
 \* Is this reaction exothermic or endothermic?

Endothermic

5. Explain how a catalyst affects the activation energy in a chemical reaction. (Also, show on the above graph what a catalyst might do). It lowers the activation energy (see on graph).  
 Speeds it up by lowering the activation energy.



# Reaction Rates And Equilibrium Test Answers

**S Baum**



## Reaction Rates And Equilibrium Test Answers:

**Chemistry** Rob Ritchie, 2008-07 Divided into seven manageable day sections this timed revision programme covers essential GCSE topics in double page spreads These spreads indicate how much time should be spent on each section and combine clear and concise explanations flow charts spidergrams and illustrations with progress check questions and answers

Access to Chemistry Avril Higton, Mike Clemmet, Elaine Golding, Alan V Jones, 2007-10-31 This text has been specifically designed to prepare people with previously limited chemical knowledge for entrance into science related courses such as Foundation and Access courses which involve chemistry in higher education Until now there have been no texts available for use on these courses and this book fills that gap Access to Chemistry effectively forms a self study course which is split into separate modules and units covering the full spread of concepts required for those needing a basic knowledge of chemistry The material is presented in a friendly and easy to use manner which allows the student to pace their acquisition of knowledge and gain increasing confidence in order to succeed in understanding essential relevant concepts Other useful features of this book include starter diagnostic tests worked examples and self study tests with answers at the end of each unit In addition to Access or Foundation course students and their tutors to whom this book will prove essential it will have an appeal also as a revision text for those needing a refresher after a break in the subject In addition it will be of interest to members of the general public who wish to better educate themselves on chemical matters as it provides a clear and useful insight into areas such as health home chemicals business market trends and gardening

*Cracking the SAT Chemistry Subject Test, 15th Edition* Princeton Review, 2015-02-17 EVERYTHING YOU NEED TO HELP SCORE A PERFECT 800 Equip yourself to ace the SAT Chemistry Subject Test with The Princeton Review's comprehensive study guide including 3 full length practice tests thorough reviews of key chemistry topics and targeted strategies for every question type This eBook edition has been optimized for on screen viewing with cross linked questions answers and explanations We don't have to tell you how tough SAT Chemistry is or how helpful a stellar exam score can be for your chances of getting into your top choice college Written by the experts at The Princeton Review *Cracking the SAT Chemistry Subject Test* arms you to take on the test and achieve your highest score Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need to Know to Help Achieve a High Score Expert subject reviews for every test topic Up to date information on the SAT Chemistry Subject Test Score conversion tables for accurate self assessment Practice Your Way to Perfection 3 full length practice tests with detailed answer explanations Hands on experience with all three question types in each content chapter Complete study sheet of core formulas and terms

Cracking the SAT Chemistry Subject Test, 2013-2014 Edition Princeton Review, 2013-04-23 If you need to know it it's in this book This eBook version of the 2013 2014 edition of *Cracking the SAT Chemistry Subject Test* has been optimized for on screen viewing with cross linked questions answers and explanations It

includes 3 full length practice tests with detailed explanations Review of all essential content from chemical equations to kinetics to electron configurations Helpful study lists of key lab equipment and a cheat sheet of important equations Key strategies that will help maximize your score Tons of sample problems and drills with detailed explanations SAT Subject Test Chemistry Joseph A. Mascetta, Mark Kernion, 2020-12-01 The updated edition of Barron's SAT Subject Test Chemistry includes A full length diagnostic test with explained answers Four practice tests that reflect the actual SAT Subject Test Chemistry All questions answered and explained Detailed reviews covering all test topics Appendixes which include the Periodic Table important equation constant and data tables and a glossary of chemistry terms Both teachers and test taking students have praised earlier editions of this manual for its wealth of well organized detail Subject reviewed include the basics matter energy scientific method and measurements atomic structure and the periodic table bonding chemical formulas gases and laws stoichiometry liquids solids and phase changes chemical reactions and thermochemistry chemical reactions chemical equilibrium acids bases and salts oxidation reduction carbon and organic chemistry and the laboratory ONLINE PRACTICE TESTS Students who purchase this book or package will also get access to two additional full length online SAT Chemistry subject tests with all questions answered and explained **Cracking the AP Chemistry Exam, 2020 Edition** The Princeton Review, 2019-10-22 Make sure you're studying with the most up to date prep materials Look for the newest edition of this title Princeton Review AP Chemistry Prep 2021 ISBN 9780525569480 on sale August 2020 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product Cracking the AP Chemistry Exam 2020, Premium Edition The Princeton Review, 2019-10-22 Make sure you're studying with the most up to date prep materials Look for the newest edition of this title Princeton Review AP Chemistry Premium Prep 2021 ISBN 9780525569473 on sale August 2020 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product Study Guide to Accompany Calculus for the Management, Life, and Social Sciences Clyde Metz, 1984-01-01 Study Guide to Accompany Calculus for the Management Life and Social Sciences **Chemistry in a Month** John Wilkinson, 2003 **JEE Main 2018 Resource Book (Solved 2002 - 2017 Papers + 24 Part Tests + 10 Mock Tests) with 5 Online Tests 5th Edition** Disha Experts, 2017-08-30 JEE Main 2018 Resource Book Solved 2002 2017 Papers 24 Part Tests 10 Mock Tests with 5 Online Tests 5th Edition has been divided into THREE parts Part A 24 Unit wise Tests 8 each in Physics Chemistry Mathematics Part B JEE Main AIEEE past Solved Papers 2002 2017 Papers Part C 10 Full Syllabus Mock Tests 5 in the book and 5 ONLINE empowered with Insta Results and Feedback Reports Thus all in all it is a 100% solution for both Online and Offline JEE Main exam **McGraw-Hill's SAT Subject Test Chemistry, 3rd Edition** Thomas Evangelist, 2011-02-03 Expert guidance on the Chemistry exam Many colleges and universities require you to take one or more SAT II Subject Tests

to demonstrate your mastery of specific high school subjects McGraw Hill's SAT Subject Test Chemistry is written by experts in the field and gives you the guidance you need to perform at your best This book includes 4 full length sample tests updated for the latest test format 40 top tips to remember on test day Glossary of tested chemistry terms and formulas Tips and strategies from one of the most popular teachers at the renowned Brooklyn Technical High School Diagnostic test to pinpoint strengths and weaknesses Step by step review of all topics covered on the exam In depth coverage of the lab experiment questions that are a major test feature Charts tables and illustrations to simplify and reinforce learning Practice tests just like the real SAT Subject Test in Chemistry Test taking tips and strategies *Cracking the SAT Chemistry Subject Test* Princeton Review, 2014-12-09 EVERYTHING YOU NEED TO HELP SCORE A PERFECT 800 Equip yourself to ace the SAT Chemistry Subject Test with The Princeton Review's comprehensive study guide including 3 full length practice tests thorough reviews of key chemistry topics and targeted strategies for every question type We don't have to tell you how tough SAT Chemistry is or how helpful a stellar exam score can be for your chances of getting into your top choice college Written by the experts at The Princeton Review *Cracking the SAT Chemistry Subject Test* arms you to take on the test and achieve your highest score Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need to Know for a High Score Expert subject reviews for every test topic Up to date information on the SAT Chemistry Subject Test Score conversion tables for accurate self assessment Practice Your Way to Perfection 3 full length practice tests with detailed answer explanations Hands on experience with all three question types in each content chapter Complete study sheet of core formulas and terms **AP Chemistry Premium, 2025: Prep Book with 6 Practice Tests + Comprehensive Review + Online Practice** Neil D. Jespersen, Pamela Kerrigan, 2024-07-02 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Chemistry Premium 2025 includes in depth content review and practice It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 6 full length practice tests 3 in the book and 3 more online plus 3 short diagnostic tests for assessing strengths and areas for improvement and detailed answer explanations for all questions Strengthen your knowledge with in depth review covering all units on the AP Chemistry exam Reinforce your learning with more than 300 practice questions throughout the book that cover all frequently tested topics Learn what to expect on test day with essential details about the exam format scoring calculator policy strategies for all question types and advice for developing a study plan Robust Online Practice Continue your practice with 3 full length practice tests on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain

confidence with scoring to check your learning progress Power up your study sessions with Barron's AP Chemistry on Kahoot additional free practice to help you ace your exam *The Best Test Preparation for the College Board Achievement Test in Chemistry* Research and Education Association, 1987-02-20 Master the SAT II Chemistry Subject Test and score higher Our test experts show you the right way to prepare for this important college exam REA's SAT II Chemistry test prep covers all chemistry topics to appear on the actual exam including in depth coverage of the laws of chemistry properties of solids gases and liquids chemical reactions and more The book features 6 full length practice SAT II Chemistry exams Each practice exam question is fully explained to help you better understand the subject material Use the book's Periodic Table of Elements for speedy look up of the properties of each element Follow up your study with REA's proven test taking strategies powerhouse drills and study schedule that get you ready for test day DETAILS Comprehensive review of every chemistry topic to appear on the SAT II subject test Flexible study schedule tailored to your needs Packed with proven test tips strategies and advice to help you master the test 6 full length practice SAT II Chemistry Subject tests Each test question is answered in complete detail with easy to follow easy to grasp explanations The book's handy Periodic Table of Elements allows for quick answers on the elements appearing on the exam TABLE OF CONTENTS About Research and Education Association Independent Study Schedule CHAPTER 1 ABOUT THE SAT II CHEMISTRY SUBJECT TEST About This Book About The Test How To Use This Book Format of the SAT II Chemistry Scoring the SAT II Chemistry Score Conversion Table Studying for the SAT II Chemistry Test Taking Tips CHAPTER 2 COURSE REVIEW Gases Gas Laws Gas Mixtures and Other Physical Properties of Gases Dalton's Law of Partial Pressures Avogadro's Law The Mole Concept Avogadro's Hypothesis Chemical Compounds and Formulas Mole Concept Molecular Weight and Formula Weight Equivalent Weight Chemical Composition Stoichiometry Weight and Volume Calculations Balancing Chemical Equations Calculations Based on Chemical Equations Limiting Reactant Calculations Solids Phase Diagram Phase Equilibrium Properties of Liquids Density Colligative Properties of Solutions Raoult's Law and Vapor Pressure Osmotic Pressure Solution Chemistry Concentration Units Equilibrium The Law of Mass Action Kinetics and Equilibrium Le Chatelier's Principle and Chemical Equilibrium Acid Base Equilibria Definitions of Acids and Bases Ionization of Water pH Dissociation of Weak Electrolytes Dissociation of Polyprotic Acids Buffers Hydrolysis Thermodynamics I Bond Energies Some Commonly Used Terms in Thermodynamics The First Law of Thermodynamics Enthalpy Hess's Law of Heat Summation Standard States Heat of Vaporization and Heat of Fusion Thermodynamics II Entropy The Second Law of Thermodynamics Standard Entropies and Free Energies Electrochemistry Oxidation and Reduction Electrolytic Cells Non Standard State Cell Potentials Atomic Theory Atomic Weight Types of Bonds Periodic Trends Electronegativity Quantum Chemistry Basic Electron Charges Components of Atomic Structure The Wave Mechanical Model Subshells and Electron Configuration Double and Triple Bonds Organic Chemistry Nomenclature and Structure Alkanes Alkenes Dienes Alkynes Alkyl Halides Cyclic Hydrocarbons Aromatic Hydrocarbons Aryl Halides Ethers and Epoxides

Alcohols and Glycols Carboxylic Acids Carboxylic Acid Derivatives Esters Amides Arenes Aldehydes and Ketones Amines Phenols and Quinones Structural Isomerism SIX PRACTICE EXAMS Practice Test 1 Answer Key Detailed Explanations of Answers Practice Test 2 Answer Key Detailed Explanations of Answers Practice Test 3 Answer Key Detailed Explanations of Answers Practice Test 4 Answer Key Detailed Explanations of Answers Practice Test 5 Answer Key Detailed Explanations of Answers Practice Test 6 Answer Key Detailed Explanations of Answers THE PERIODIC TABLE EXCERPT About Research OR 2 To demonstrate proficiency in Chemistry The SAT II Chemistry exam is designed for students who have taken one year of college preparatory chemistry Who Administers The Test The SAT II Chemistry Subject Test is developed by the College Board and administered by Educational Testing Service ETS The test development process involves the assistance of educators throughout the country and is designed and implemented to ensure that the content and difficulty level of the test are appropriate When Should the SAT II Chemistry be Taken If you are applying to a college that requires Subject Test scores as part of the admissions process you should take the SAT II Chemistry Subject Test toward the end of your junior year or at the beginning of your senior year If your scores are being used only for placement purposes you may be able to take the test in the spring of your senior year For more information be sure to contact the colleges to which you are applying When and Where is the Test Given The SAT II Chemistry Subject Test is administered five times a year at many locations throughout the country mostly high schools To receive information on upcoming administrations of the exam consult the publication Taking the SAT II Subject Tests which may be obtained from your guidance counselor or by contacting College Board SAT Program P O Box 6200 Princeton NJ 08541 6200 Phone 609 771 7600 Website <http://www.collegeboard.com> Is There a Registration Fee Yes There is a registration fee to take the SAT II Chemistry Consult the publication Taking the SAT II Subject Tests for information on the fee structure Financial assistance may be granted in certain situations To find out if you qualify and to register for assistance contact your academic advisor HOW TO USE THIS BOOK What Do I Study First Remember that the SAT II Chemistry Subject Test is designed to test knowledge that has been acquired throughout your education Therefore the best way to prepare for the exam is to refresh yourself by thoroughly studying our review material and taking the sample tests provided in this book They will familiarize you with the types of questions directions and format of the SAT II Chemistry Subject Test To begin your studies read over the review and the suggestions for test taking take one of the practice tests to determine your areas of weakness and then restudy the review material focusing on your specific problem areas The course review includes the information you need to know when taking the exam Be sure to take the remaining practice tests to further test yourself and become familiar with the format of the SAT II Chemistry Subject Test When Should I Start Studying It is never too early to start studying for the SAT II Chemistry test The earlier you begin the more time you will have to sharpen your skills Do not procrastinate Cramming is not an effective way to study since it does not allow you the time needed to learn the test material The sooner you learn the format of the exam the more comfortable

you will be when you take the exam

### FORMAT OF THE SAT II CHEMISTRY

The SAT II Chemistry is a one hour exam consisting of 85 multiple choice questions The first part of the exam consists of classification questions This question type presents a list of statements or questions that you must match up with a group of choices lettered A through E Each choice may be used once more than once or not at all The exam then shifts to relationship analysis questions which you will answer in a specially numbered section of your answer sheet You will have to determine if each of two statements is true or false and if the second statement is a correct explanation of the first The last section is composed strictly of multiple choice questions with choices lettered A through E

### Material Tested

The following chart summarizes the distribution of topics covered on the SAT II Chemistry Subject Test

Topic	Percentage	Number of Questions
Atomic	however do not review too much at any one time	
Concentrate on one problem area at a time by reviewing the questions and explanations and by studying our review until you are confident you completely understand the material		
Keep track of your scores By doing so you will be able to gauge your progress and discover general weaknesses in particular sections		
You should carefully study the reviews that cover your areas of difficulty as this will build your skills in those areas		

### TEST TAKING TIPS

Although you may be unfamiliar with standardized tests such as the SAT II Chemistry Subject Test there are many ways to acquaint yourself with this type of examination and help alleviate your test taking anxieties Become comfortable with the format of the exam When you are practicing to take the SAT II Chemistry Subject Test simulate the conditions under which you will be taking the actual test Stay calm and pace yourself After simulating the test only a couple of times you will boost your chances of doing well and you will be able to sit down for the actual exam with much more confidence Know the directions and format for each section of the test Familiarizing yourself with the directions and format of the exam will not only save you time but will also ensure that you are familiar enough with the SAT II Chemistry Subject Test to avoid nervousness and the mistakes caused by being nervous Do your scratchwork in the margins of the test booklet You will not be given scrap paper during the exam and you may not perform scratchwork on your answer sheet Space is provided in your test booklet to do any necessary work or draw diagrams If you are unsure of an answer guess However if you do guess guess wisely Use the process of elimination by going through each answer to a question and ruling out as many of the answer choices as possible By eliminating three answer choices you give yourself a fifty fifty chance of answering correctly since there will only be two choices left from which to make your guess Mark your answers in the appropriate spaces on the answer sheet Fill in the oval that corresponds to your answer darkly completely and neatly You can change your answer but remember to completely erase your old answer Any stray lines or unnecessary marks may cause the machine to score your answer incorrectly When you have finished working on a section you may want to go back and check to make sure your answers correspond to the correct questions Marking one answer in the wrong space will throw off the rest of your test whether it is graded by machine or by hand You don't have to answer every question You are not penalized if you do not answer every question The only penalty results from answering a



question incorrectly Try to use the guessing strategy but if you are truly stumped by a question remember that you do not have to answer it Work quickly and steadily You have a limited amount of time to work on each section so you need to work quickly and steadily Avoid focusing on one problem for too long Before the Test Make sure you know where your test center is well in advance of your test day so you do not get lost on the day of the test On the night before the test gather together the materials you will need the next day Your admission ticket Two forms of identification e g driver s license student identification card or current alien registration card Two No 2 pencils with erasers Directions to the test center A watch if you wish but not one that makes noise as it may disturb other test takers On the day of the test you should wake up early after a good night s rest and have breakfast Dress comfortably so that you are not distracted by being too hot or too cold while taking the test Also plan to arrive at the test center early This will allow you to collect your thoughts and relax before the test and will also spare you the stress of being late If you arrive after the test begins you will not be admitted to the test center and you will not receive a refund During the Test When you arrive at the test center try to find a seat where you feel most comfortable Follow all the rules and instructions given by the test supervisor If you do not you risk being dismissed from the test and having your scores canceled Once all the test materials are passed out the test instructor will give you directions for filling out your answer sheet Fill this sheet out carefully since this information will appear on your score report After the Test When you have completed the SAT II Chemistry Subject Test you may hand in your test materials and leave Then go home and relax When Will I Receive My Score Report and What Will It Look Like You should receive your score report about five weeks after you take the test This report will include your scores percentile ranks and interpretive information

AP Chemistry Premium, 2024: 6 Practice Tests + Comprehensive Review + Online Practice Neil D. Jespersen, Pamela Kerrigan, 2023-07-04 Always study with the most up to date prep Look for AP Chemistry Premium 2025 Prep Book with 6 Practice Tests Comprehensive Review Online Practice ISBN 9781506291802 on sale July 2 2024 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product

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**Partial Solutions Manual** Darrell D. Ebbing, David Bookin, 1998

**AP Chemistry For Dummies** Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You'll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You'll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory

data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam

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