

Bond Energy

What makes a reaction endothermic or exothermic?

Why?

Chemical reactions can be a lot like playing with Legos[®]—you must take apart part of your last creation before you can replace it with something new. For many chemical reactions, we have to first break bonds in the reactants before we can put the atoms back into a new arrangement to form the products. Both of these processes involve changes in energy. The net energy change for a reaction is called the **heat of reaction** or the **change in enthalpy** (ΔH). In this activity we will look at one way energy changes can be approximated for chemical reactions.

Model 1 – Breaking and Forming Bonds

	Reaction	Change in Energy (kJ/mol _{rxn})		Reaction	Change in Energy (kJ/mol _{rxn})
A)	$\text{PCl}_5(\text{g}) \rightarrow \text{P}(\text{g}) + 3\text{Cl}(\text{g})$	+ 966.7 <i>broken</i>	E)	$\text{P}(\text{g}) + 3\text{Cl}(\text{g}) \rightarrow \text{PCl}_5(\text{g})$	- 966.7 <i>formed</i>
B)	$\text{PCl}_5(\text{g}) \rightarrow \text{P}(\text{g}) + 5\text{Cl}(\text{g})$	+ 1,297.9 <i>broken</i>	F)	$\text{P}(\text{g}) + 5\text{Cl}(\text{g}) \rightarrow \text{PCl}_5(\text{g})$	- 1,297.9 <i>formed</i>
C)	$\text{PF}_5(\text{g}) \rightarrow \text{P}(\text{g}) + 3\text{F}(\text{g})$	+ 1,470.4 <i>broken</i>	G)	$\text{P}(\text{g}) + 3\text{F}(\text{g}) \rightarrow \text{PF}_5(\text{g})$	- 1,470.4 <i>formed</i>
D)	$\text{PF}_5(\text{g}) \rightarrow \text{P}(\text{g}) + 5\text{F}(\text{g})$	+ 2,305.4 <i>broken</i>	H)	$\text{P}(\text{g}) + 5\text{F}(\text{g}) \rightarrow \text{PF}_5(\text{g})$	- 2,305.4 <i>formed</i>

- Identify four reactions in Model 1 where bonds are being broken. Write "broken" in the Change in Energy box in the table for each reaction you identify.
- Identify four reactions in Model 1 where bonds are being formed. Write "formed" in the Change in Energy box in the table for each reaction you identify.

- Circle the correct word to complete each sentence below.

- When bonds are broken (~~formed~~) there is a positive energy change.
- Breaking bonds is endothermic (~~exothermic~~).
- When bonds are formed (~~broken~~) there is a negative energy change.
- Forming bonds is exothermic (~~endothermic~~).

- Find two reactions in Model 1 that are exact opposites of each other, that is, one reaction is the reverse of the other reaction.

- How do the changes in energy for the reverse reactions compare?

same absolute value, opposite sign

- Explain your answer to part a considering what you learned from Questions 1–3 about bond breaking and bond formation.

amt of energy required to break is same as amount released when formed

Bond Energy Pogil Answers Key

Julianne Zedalis, John Eggebrecht



Bond Energy Pogil Answers Key

Chemistry 2e Paul Flowers, Richard Langely, William R. Robinson, Klaus Hellmut Theopold, 2019-02-14 *Chemistry 2e* is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in *Chemistry 2e* are described in the preface to help instructors transition to the second edition

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Preparing for the Biology AP Exam Neil A. Campbell, Jane B. Reece, Fred W. Holtzclaw, Theresa Knapp Holtzclaw, 2009-11-03 Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee the Holtzclaws have designed their resource to help your students prepare for the AP Exam Completely revised to match the new 8th edition of *Biology* by Campbell and Reece New Must Know sections in each chapter focus student attention on major concepts Study tips information organization ideas and misconception warnings are interwoven throughout New section reviewing the 12 required AP labs Sample practice exams The secret to success on the AP Biology exam is to understand what you must know and these experienced AP teachers will guide your students toward top scores

Basic Concepts in Biochemistry: A Student's Survival Guide Hiram F. Gilbert, 2000 *Basic Concepts in Biochemistry* has just one goal to review the toughest concepts in biochemistry in an accessible format so your understanding is thorough and complete

Intermolecular and Surface Forces Jacob N. Israelachvili, 2011-07-22 *Intermolecular and Surface Forces* describes the role of various intermolecular and interparticle forces in determining the properties of simple systems such as gases liquids

and solids with a special focus on more complex colloidal polymeric and biological systems The book provides a thorough foundation in theories and concepts of intermolecular forces allowing researchers and students to recognize which forces are important in any particular system as well as how to control these forces This third edition is expanded into three sections and contains five new chapters over the previous edition Starts from the basics and builds up to more complex systems Covers all aspects of intermolecular and interparticle forces both at the fundamental and applied levels Multidisciplinary approach bringing together and unifying phenomena from different fields This new edition has an expanded Part III and new chapters on non equilibrium dynamic interactions and tribology friction forces

Biology for AP ® Courses Julianne Zedalis, John Eggebrecht, 2017-10-16 Biology for AP courses covers the scope and sequence requirements of a typical two semester Advanced Placement biology course The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens Biology for AP Courses was designed to meet and exceed the requirements of the College Board's AP Biology framework while allowing significant flexibility for instructors Each section of the book includes an introduction based on the AP curriculum and includes rich features that engage students in scientific practice and AP test preparation it also highlights careers and research opportunities in biological sciences

POGIL Activities for High School Chemistry High School POGIL Initiative, 2012

BIOS Instant Notes in Organic Chemistry Graham Patrick, 2004-08-02 Instant Notes in Organic Chemistry Second Edition is the perfect text for undergraduates looking for a concise introduction to the subject or a study guide to use before examinations Each topic begins with a summary of essential facts an ideal revision checklist followed by a description of the subject that focuses on core information with clear simple diagrams that are easy for students to understand and recall in essays and exams

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

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Introductory Chemistry Kevin Revell,2020-11-17 Introductory Chemistry creates light bulb moments for students and provides unrivaled support for instructors Highly visual interactive multimedia tools are an extension of Kevin Revell s distinct author voice and help students develop critical problem solving skills and master foundational chemistry concepts necessary for success in chemistry

Teaching and Learning STEM Richard M. Felder,Rebecca Brent,2024-03-19 The widely used STEM education book updated Teaching and Learning STEM A Practical Guide covers teaching and learning issues unique to teaching in the science technology engineering and math STEM disciplines Secondary and postsecondary instructors in STEM areas need to master specific skills such as teaching problem solving which are not regularly addressed in other teaching and learning books This book fills the gap addressing topics like learning objectives course design choosing a text effective instruction active learning teaching with technology and assessment all from a STEM perspective You ll also gain the knowledge to implement learner centered instruction which has been shown to improve learning outcomes across disciplines For this edition chapters have been updated to reflect recent cognitive science and empirical educational research findings that inform STEM pedagogy You ll also find a new section on actively engaging students in synchronous and asynchronous online courses and content has been substantially revised to reflect recent developments in instructional technology and online course development and delivery Plan and deliver lessons that actively engage students in person or online Assess students progress and help ensure retention of all concepts learned Help students develop skills in problem solving self directed learning critical thinking teamwork and communication Meet the learning needs of STEM students with diverse backgrounds and identities The strategies presented in Teaching and Learning STEM don t require revolutionary time intensive changes in your teaching but rather a gradual integration of traditional and new methods The result will be a marked improvement in your teaching and your students learning

Biochemistry Education Assistant Teaching Professor Department of Chemistry and Biochemistry Thomas J Bussey,Timothy J. Bussey,Kimberly Linenberger Cortes,Rodney C. Austin,2021-01-18 This volume brings together resources from the networks and communities that contribute to biochemistry education Projects authors and practitioners from the American Chemical Society ACS American Society of Biochemistry and Molecular Biology ASBMB and the Society for the Advancement of Biology Education Research SABER are included to facilitate cross talk among these communities Authors offer diverse perspectives on

pedagogy and chapters focus on topics such as the development of visual literacy pedagogies and practices and implementation

Biophysical Chemistry James P. Allen, 2009-01-26 Biophysical Chemistry is an outstanding book that delivers both fundamental and complex biophysical principles along with an excellent overview of the current biophysical research areas in a manner that makes it accessible for mathematically and non mathematically inclined readers Journal of Chemical Biology February 2009 This text presents physical chemistry through the use of biological and biochemical topics examples and applications to biochemistry It lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined leading them through fundamental concepts such as a quantum mechanical description of the hydrogen atom rather than simply stating outcomes Techniques are presented with an emphasis on learning by analyzing real data Presents physical chemistry through the use of biological and biochemical topics examples and applications to biochemistry Lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined Presents techniques with an emphasis on learning by analyzing real data Features qualitative and quantitative problems at the end of each chapter All art available for download online and on CD ROM

Concepts of Biology Samantha Fowler, Rebecca Roush, James Wise, 2023-05-12 Black white print Concepts of Biology is designed for the typical introductory biology course for nonmajors covering standard scope and sequence requirements The text includes interesting applications and conveys the major themes of biology with content that is meaningful and easy to understand The book is designed to demonstrate biology concepts and to promote scientific literacy

Chemistry Bruce Averill, Patricia Eldredge, 2007 Emphasises on contemporary applications and an intuitive problem solving approach that helps students discover the exciting potential of chemical science This book incorporates fresh applications from the three major areas of modern research materials environmental chemistry and biological science

Teach Better, Save Time, and Have More Fun Penny J. Beuning, Dave Z. Besson, Scott A. Snyder, Ingrid DeVries Salgado, 2014-12-15 A must read for beginning faculty at research universities

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Anatomy & Physiology Lindsay Biga, Devon Quick, Sierra Dawson, Amy Harwell, Robin Hopkins, Joel Kaufmann, Mike LeMaster, Philip Matern, Katie Morrison-Graham, Jon Runyeon, 2019-09-26 A version of the OpenStax text

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes

Ranking Task Exercises in Physics Thomas L. O'Kuma, David P. Maloney, Curtis J. Hieggelke, 2003-10 A supplement for courses in Algebra Based Physics and Calculus Based Physics Ranking Task Exercises in Physics are an innovative type of conceptual exercise that asks students to make comparative judgments about variations on a particular physical situation It includes 200 exercises covering classical physics and optics

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Bond Energy Pogil Answers Key** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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