

Bond Energy

Chem Worksheet 16-2

Name _____

Bond energy is defined as the amount of energy required to break a bond. These values are positive, indicating that bond breaking is endothermic. Bond energies are reported in kilojoules per mole (kJ/mol). The energy for breaking a hydrogen-hydrogen bond is 436 kJ/mol so when a hydrogen-hydrogen bond is formed the process releases 436 kJ/mol.

In a chemical reaction several bonds are broken and formed. For example in the reaction below a hydrogen-hydrogen bond is broken and a fluorine-fluorine bond is broken. Two hydrogen-fluorine bonds are formed. The overall energy change for this process is calculated below.

example



$$\begin{aligned}\Delta H_{\text{rxn}} &= [\text{energy used for breaking bonds}] - [\text{energy formed in making bonds}] \\ &= [436 \text{ kJ/mol} + 155 \text{ kJ/mol}] - [2(567 \text{ kJ/mol})] \\ &= -543 \text{ kJ/mol}\end{aligned}$$



Bond energy: 436 kJ/mol



Bond Energy: 155 kJ/mol



Bond Energy: 567 kJ/mol

Average Bond Energies (kJ/mol)

H-H	436 kJ/mol	C-H	413 kJ/mol	C=C	614 kJ/mol
H-Cl	431 kJ/mol	C-C	348 kJ/mol	C≡C	839 kJ/mol
H-F	567 kJ/mol	C-N	293 kJ/mol	C=O	799 kJ/mol
N-H	391 kJ/mol	C-O	358 kJ/mol	O=O	495 kJ/mol
N-O	201 kJ/mol	C-F	485 kJ/mol	C=O	1072 kJ/mol
O-H	463 kJ/mol	C-Cl	328 kJ/mol	C=N	615 kJ/mol
O-O	146 kJ/mol	C-S	259 kJ/mol	N=N	418 kJ/mol
F-F	155 kJ/mol	Cl-Cl	242 kJ/mol	N≡N	941 kJ/mol
				C≡N	891 kJ/mol

Estimate the enthalpy change (ΔH_{rxn}) of the following reactions using the bond energies above.

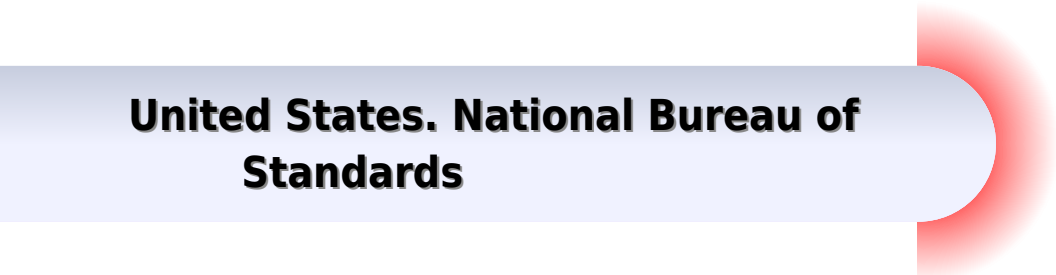


Draw Lewis structures for reactants and products. Estimate the enthalpy change (ΔH_{rxn}) for the reactions using bond energies.



Bond Energy Extension Questions Key

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A Level Chemistry for OCR A: Year 1 and AS Rob Ritchie, Dave Gent, 2016-05-05 Please note this title is suitable for any student studying Exam Board OCR Level A Level Year 1 and AS Subject Chemistry First teaching September 2015 First exams June 2016 Written by curriculum and specification experts this Student Book supports and extends students throughout their course whilst delivering the breadth depth and skills needed to succeed at A Level and beyond

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Any needed statistical training and tools are contained within the text While device failure is a statistical process thus making statistics important the emphasis of this book is clearly on the physics of failure and developing the reliability engineering tools required for product improvements during device design and device fabrication phases NBS Special Publication ,1968 **Chemical Interactions** ,2005 *Catalog of National Bureau of Standards Publications, 1966-1976: Key word index* United States. National Bureau of Standards. Technical Information and Publications Division,1978 **The Fullerenes** H. W. Kroto,D. R. M. Walton,1993-09-09 In 1985 Buckminsterfullerene fullerene 60 C60 was discovered serendipitously during graphite laser vaporisation experiments designed to simulate the chemistry in a red giant carbon star The molecule was isolated for the first time in macroscopic amounts in 1990 a breakthrough which triggered an explosion of research into its chemical and physical properties The fullerenes hold great potential for material science applications such as semiconductors and microscopic engineering and as new compounds for pharmaceuticals polymers and the chemical industry In October 1992 a Discussion Meeting of the Royal Society entitled A Post Buckminsterfullerene View of the Chemistry Physics and Astrophysics of Carbon organised by H W Kroto A L Makay G Turner and D R M Walton was held to celebrate this exciting advance The scientists who played key roles in the discovery and who are currently uncovering fascinating problems and the implications of this elegant molecule presented the papers published in this book

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Airong Chen,Dan Frangopol,Xin Ruan,2014-05-27 Bridge Maintenance Safety Management and Life Extension contains the lectures and papers presented at IABMAS 2014 the Seventh International Conference on Bridge Maintenance Safety and Management IABMAS 2014 held in Shanghai China July 7 11 2014 This set consists of a book of abstracts and a DVD containing the full papers of 396 contributions presented at IABMAS 2014 including the T Y Lin Lecture nine Keynote Lectures and 386 technical papers from about 40 countries All major aspects of bridge maintenance safety management and life extension are addressed including advanced materials aging of bridges assessment and evaluation bridge codes bridge diagnostics bridge management systems damage identification design for durability deterioration modeling earthquake and accidental loadings fatigue field testing health monitoring load models life cycle assessment maintenance strategies non destructive testing prediction of future traffic demands repair and replacement residual service life safety and serviceability service life prediction and sustainable bridges among others This set provides an up to date overview of the field of bridge engineering as well as the recent significant contributions to the process of making rational decisions in bridge maintenance safety management sustainability monitoring long life strategy and resources optimization deployment for the purpose of enhancing the welfare of society It will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including students researchers engineers consultants and contractors from all areas of bridge

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1. Understanding the eBook Bond Energy Extension Questions Key
 - The Rise of Digital Reading Bond Energy Extension Questions Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Bond Energy Extension Questions Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bond Energy Extension Questions Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bond Energy Extension Questions Key
 - Personalized Recommendations
 - Bond Energy Extension Questions Key User Reviews and Ratings

- Bond Energy Extension Questions Key and Bestseller Lists
- 5. Accessing Bond Energy Extension Questions Key Free and Paid eBooks
 - Bond Energy Extension Questions Key Public Domain eBooks
 - Bond Energy Extension Questions Key eBook Subscription Services
 - Bond Energy Extension Questions Key Budget-Friendly Options
- 6. Navigating Bond Energy Extension Questions Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Bond Energy Extension Questions Key Compatibility with Devices
 - Bond Energy Extension Questions Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bond Energy Extension Questions Key
 - Highlighting and Note-Taking Bond Energy Extension Questions Key
 - Interactive Elements Bond Energy Extension Questions Key
- 8. Staying Engaged with Bond Energy Extension Questions Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bond Energy Extension Questions Key
- 9. Balancing eBooks and Physical Books Bond Energy Extension Questions Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bond Energy Extension Questions Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bond Energy Extension Questions Key
 - Setting Reading Goals Bond Energy Extension Questions Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bond Energy Extension Questions Key
 - Fact-Checking eBook Content of Bond Energy Extension Questions Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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