

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)	$\text{PCl}_3(\text{g}) \rightarrow \text{P}(\text{g}) + 3\text{Cl}(\text{g})$	+ 966.7 <i>broken</i>	E)	$\text{P}(\text{g}) + 3\text{Cl}(\text{g}) \rightarrow \text{PCl}_3(\text{g})$	- 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)	$\text{PF}_3(\text{g}) \rightarrow \text{P}(\text{g}) + 3\text{F}(\text{g})$	+ 1,470.4 <i>broken</i>	G)	$\text{P}(\text{g}) + 3\text{F}(\text{g}) \rightarrow \text{PF}_3(\text{g})$	- 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 (broken/formed) there is a negative energy change.
 - Forming bonds is (endothermic/exothermic).
- 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?

The changes in energy for these reactions are the same, but opposite in sign.

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

If a given amount of energy is required to break a bond, then the same amount of energy will be released when the bond is formed.

Bond Energy Pogil Model 4

Daniel F McAuley



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Table of Contents Bond Energy Pogil Model 4

1. Understanding the eBook Bond Energy Pogil Model 4
 - The Rise of Digital Reading Bond Energy Pogil Model 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Bond Energy Pogil Model 4
 - 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 Pogil Model 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bond Energy Pogil Model 4
 - Personalized Recommendations
 - Bond Energy Pogil Model 4 User Reviews and Ratings
 - Bond Energy Pogil Model 4 and Bestseller Lists
5. Accessing Bond Energy Pogil Model 4 Free and Paid eBooks

- Bond Energy Pogil Model 4 Public Domain eBooks
- Bond Energy Pogil Model 4 eBook Subscription Services
- Bond Energy Pogil Model 4 Budget-Friendly Options
- 6. Navigating Bond Energy Pogil Model 4 eBook Formats
 - ePub, PDF, MOBI, and More
 - Bond Energy Pogil Model 4 Compatibility with Devices
 - Bond Energy Pogil Model 4 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bond Energy Pogil Model 4
 - Highlighting and Note-Taking Bond Energy Pogil Model 4
 - Interactive Elements Bond Energy Pogil Model 4
- 8. Staying Engaged with Bond Energy Pogil Model 4
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bond Energy Pogil Model 4
- 9. Balancing eBooks and Physical Books Bond Energy Pogil Model 4
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bond Energy Pogil Model 4
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bond Energy Pogil Model 4
 - Setting Reading Goals Bond Energy Pogil Model 4
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bond Energy Pogil Model 4
 - Fact-Checking eBook Content of Bond Energy Pogil Model 4
 - 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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