

CHAPTER 10: Reactions

Reaction Energy

SECTION 1

Write a balanced chemical equation for the following reactions in the space provided.

- For elements in their standard state, the value of ΔH_f° is _____.
- The formation and decomposition of a substance is represented by the following thermodynamic equations:



- Is the energy being added to or is it being subtracted from the decomposition?
- What is the correct sign for the enthalpy change in this decomposition reaction?

Write the correct answer in the space to the left. Show all your work in the space provided.

- _____ $\Delta H_{\text{f}}^\circ$ of a substance is 207 kJ/mol . How much energy is released in the decomposition of 1 mole of this substance?

- _____ A substance has a specific heat of $0.001 \text{ J/g}^\circ\text{C}$. If the specific heat capacity of a material increases by a factor of 10, how much energy is absorbed when 100 $^\circ\text{C}$ is added?

- The product is a molecular compound and the reactant is a ionic compound, and the reaction is exothermic. Is this correct?

- What is the value of ΔH for this reaction?

Reaction Energy Section 1 Answer Key

Ensheng Dong



Reaction Energy Section 1 Answer Key:

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fueled growth in the first microbial cells It is for teachers and college students with an interest in microbiology geosciences biochemistry evolution or all of the above The scope of the book is a quantum departure from existing origin of life books in that it starts with basic chemistry and links energy releasing geochemical processes to the reactions of microbial metabolism The text reaches across disciplines providing students of the geosciences an origins biology interface and bringing a geochemistry origins interface to students of microbiology and evolution Beginning with physical chemistry and transitioning across metabolic networks into microbiology the timeline documents chemical events and organizational states in hydrothermal vents the only environments known that bridge the gap between spontaneous chemical reactions that we can still observe in nature today and the physiology of microbes that live from H₂ CO₂ ammonia phosphorus inorganic salts and water Life is a chemical reaction What it is and how it arose are two sides of the same coin Key Features Provides clear connections between geochemical reactions and microbial metabolism Focuses on chemical mechanisms and transition metals Richly illustrated with color figures explaining reactions and processes Covers the origin of the Earth the origin of metabolism the origin of protein synthesis and genetic information as well as the escape into the wild of the first free living cells Bacteria and Archaea

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