

Thermochem and Collision theory Study Guide

What is enthalpy? (define it and indicate its symbol)

heat content of a reaction or process. H

What is thermochemistry?

Study of heat (E) changes of a reaction

What is an exothermic reaction?

a reaction that gives off heat

Explain why an exothermic reaction have a negative enthalpy change?

b/c reactants lose heat to become products. (The overall ΔH is negative)

What is an endothermic reaction?

a reaction that absorbs heat

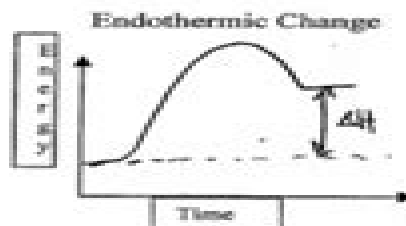
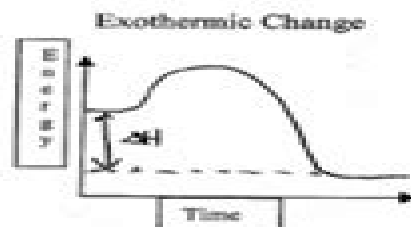
Explain why an endothermic reaction have a positive enthalpy change?

b/c reactants absorb heat to become products (The overall ΔH is +)

Complete the following chart:

Type of Reaction	Sign of ΔH_{rxn}	Which has more energy: reactants or products?	What temperature change would you see?
Exothermic	-	Reactants	Temp would $\uparrow$
Endothermic	+	Products	Temp. would $\downarrow$

Make enthalpy diagrams for the two chemical reactions from above, showing clearly the amount of energy released or gained.



Does the energy go from the surrounding to the chemicals or from the chemicals to the surroundings in an exothermic reaction? from chemicals to surroundings

Does the energy go from the surrounding to the chemicals or from the chemicals to the surroundings in an endothermic reaction? from surroundings to chemicals

Classify each of the following as an exothermic or endothermic process.

Melting ice cubes endothermic

Burning a candle exothermic

Evaporation of water endothermic

Baking Bread endothermic

Splitting a gas molecule apart endothermic (breaking bond!)

Formation of snow in clouds exothermic
(freezing!)

What type of reactions are the following based on the enthalpy?

$C + H_2O \rightarrow CO + H_2$ $\Delta H_{rxn} = +113 \text{ kJ}$ endothermic

$2H_2O_2 \rightarrow 2H_2O + O_2$ $\Delta H = -190 \text{ kJ}$ exothermic

$6CO_2 + 6H_2O + 2803 \text{ kJ} \rightarrow C_6H_{12}O_6 + 6O_2$ endothermic

$3NO_2 + H_2O \rightarrow 2HNO_3 + NO + 138 \text{ kJ}$ exothermic

$P_4 + 5O_2 \rightarrow 3013 \text{ kJ} + P_4O_{10}$ exothermic

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Fundamentals of Engineering Thermodynamics Michael J. Moran, Howard N. Shapiro, Daisie D. Boettner, Margaret B. Bailey, 2020-06-23 Fundamentals of Engineering Thermodynamics 9th Edition sets the standard for teaching students how to be effective problem solvers Real world applications emphasize the relevance of thermodynamics principles to some of the most critical problems and issues of today including topics related to energy and the environment biomedical bioengineering and emerging technologies Fundamentals of Thermodynamics Mr. Rohit Manglik, 2023-07-23 Explains thermodynamic principles laws and their applications in engineering systems *Guide for the Preparation of Thermodynamic Tables and Correlations of the Fluid State* Selby Angus, 1983 **Materials and Technologies in Construction with Reference to Energy Efficiency and Sustainable Development** Mohammad Arif Kamal, 2016-02-12 Special topic volume with invited peer reviewed papers only **Chemistry, Student Study Guide** John A. Olmsted, Gregory M. Williams, 2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a tutorial CD interactive learningware an extensive Web CT component an instructor's resource CD and a solution CD **Advanced Research on Material Engineering, Chemistry, Bioinformatics II** Helen Zhang, David Jin, 2012-06-04 Selected peer reviewed papers from the 2012 2nd International Conference on Material Engineering Chemistry Bioinformatics MECB 2012 July 14 15 Xi an China **Functionally Graded Materials VIII** O. van der Biest, Michael Gasik, Jozef Vleugels, 2005 Multifunctional materials are composite systems that exhibit useful responses to electrical optical magnetic and or mechanical stimuli They allow the compact and economic integration of two or more functions which can be mechanical biological acoustic thermal electrical magnetic optical or sensory in nature Functionally graded materials FGM are also multi functional materials which exhibit spatial variations in composition and or microstructure created with the specific purpose of controlling variations in thermal structural or functional properties In spite of large differences in the type and size scale of the materials considered many common features exist thus furnishing a rationale for grouping these materials together in one book The topics covered include structural applications materials for information technology energy conversion materials and devices biomedical materials and their applications multifunctional materials for sensors and actuators eco materials thin films and coatings modeling and simulations testing and characterization processing of materials Overall the book provides an excellent

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