

chapter 6 thermochemistry pdf

CHAPTER 6: THERMOCHEMISTRY 168 6.20 Strategy: The work done in gas expansion is equal to the product of the external, opposing pressure and the change in volume. $w = -P\Delta V$ We assume that the volume of liquid water is zero compared to that of steam.

CHAPTER 6 THERMOCHEMISTRY

Page 3 Enthalpy Changes (ΔH) in Chemical Reactions 1. Energy is a state function the energy change (ΔE) of a reaction depends only on the initial and final states of the system -- not on the specific pathway

Thermochemistry (Chapter 6) General Concepts and Terminology

CHAPTER 6: THERMOCHEMISTRY 163 Now, we substitute P and ΔV into Equation (6.3) of the text to solve for w. $w = -P\Delta V = -(1.0 \text{ atm})(31 \text{ L}) = -31 \text{ L}\cdot\text{atm}$ The problems asks for the work done in units of joules. The following conversion factor can be obtained

CHAPTER 6 THERMOCHEMISTRY - Oregon State University

Chapter 6: Thermochemistry Thermochemistry: energy considerations associated with chemical and physical change Energy: the capacity of a system to do work or produce heat potential energy " energy of position; stored energy kinetic energy " energy of motion kinetic energy = $\frac{1}{2}mv^2$ kinetic energy = $3\frac{1}{2}RT$

Chapter 6: Thermochemistry Thermochemistry: energy

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CHAPTER 6 THERMOCHEMISTRY 131 b.)E = 82 + 47 = 129 kJ c.)E = 47 + 0 = 47 kJ d. When the surroundings deliver work to the system, $w > 0$. This is the case for a and b.

CHAPTER SIX THERMOCHEMISTRY - bremertonschools.org

182 CHAPTER 6 THERMOCHEMISTRY Questions 11. Path-dependent functions for a trip from Chicago to Denver are those quantities that depend on the route taken.

CHAPTER 6 THERMOCHEMISTRY - Mayo High School

Chapter 6 Thermochemistry Concept Check 6.1 A solar-powered water pump has photovoltaic cells on protruding top panels. These cells collect energy from sunlight, storing it momentarily in a battery, which later runs an electric motor that pumps water up to a storage tank on a hill.

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Chapter 6: Thermochemistry Thermochemistry: energy considerations associated with chemical and physical change Energy: the capacity of a system to do work or produce heat potential energy " energy of position; stored energy kinetic energy " energy of motion kinetic energy = $\frac{1}{2}mv^2$ kinetic energy = $3\frac{1}{2}RT$

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