

Unit 3 Review: Thermochemistry

A. Definition Questions: you should be able to use or apply the following terms. Be able to write complete definitions for the terms in **bold**.

energy
potential energy
kinetic energy
enthalpy
thermal kinetic energy

temperature
heat
specific heat capacity
endothermic
exothermic

standard state
allotropes
standard heat of formation
bond energy

- Identify the **INCORRECT** statement below:
 - potential energy is the energy an object has because of its position relative to and attraction toward another object.
 - energy is the ability to do work.
 - in an exothermic reaction, the enthalpy of the products is higher than the enthalpy of the reactants.
 - in an ordinary chemical reaction, energy is neither created nor destroyed.
- A particular chemical reaction has $\Delta H^\circ = +250 \text{ kJ/mol}$. Which of the following statements is/are true concerning this reaction?
 - Heat moves from the system to the surroundings.
 - The reaction is endothermic.
 - The enthalpy of the products is lower than the enthalpy of the reactants.
 - I and II only
 - II only
 - II and III only
 - I, II and III are true
- Which of the following molecules has the highest enthalpy?
 - propane
 - cyclopropane
 - pentane
 - cyclooctane
- Which statement is **INCORRECT** about endothermic reactions?
 - the system absorbs energy from its surroundings
 - the enthalpy of products is lower than the enthalpy of the reactants
 - the thermal kinetic energy of the surroundings will decrease
 - the enthalpy change will have a positive value
- All of the following statements are true **EXCEPT**:
 - ΔH for a reaction is equal in magnitude but opposite in sign to ΔH for the reverse reaction
 - enthalpy is a state function
 - the overall change in enthalpy for a reaction depends on the number of steps in a reaction
 - chemical potential energy contributes to the total enthalpy of a substance
- What is the definition of the temperature of a substance?
 - the total heat content of the particles in a substance
 - the speed of the fastest particles in the substance
 - the speed of the slowest particles in the substance
 - the average kinetic energy of the particles in a system

Unit 13 Test Review Thermochemistry

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