

Name \_\_\_\_\_

**Multiple Choice (10 points each)**

Identify the letter of the choice that best completes the statement or answers the question.

- E 1. For a certain process at 27°C,  $\Delta G = +210.6$  kJ and  $\Delta H = -168.2$  kJ. What is the entropy change for this process at this temperature? Express your answer in the form,  $\Delta S =$  \_\_\_\_\_ J/K.
- a. +628.3 J/K  
b. -141.3 J/K  
c. +141.3 J/K  
d.  $1.26 \times 10^3$  J/K  
e.  $-1.26 \times 10^3$  J/K

Answer:  $\Delta G = \Delta H - T\Delta S$   $T = 27^\circ\text{C} + 273 = 300\text{K}$

$$\Delta S = \frac{\Delta H - \Delta G}{T} = \frac{(-168.2\text{kJ}) - (+210.6\text{kJ})}{300\text{K}} = -\frac{1.26\text{kJ}}{\text{K}}$$

$$\left(\frac{-1.26\text{kJ}}{\text{K}}\right)\left(\frac{10^3\text{J}}{\text{kJ}}\right) = \boxed{\frac{-1.26 \times 10^3\text{J}}{\text{K}}}$$

- A 2. Which response includes all of the following substances that have  $\Delta H_f^\circ = 0$ , and no other substances?

- I. HCl(g)  
II. Na(s)  
III. HCl(aq)  
IV. F<sub>2</sub>(g)

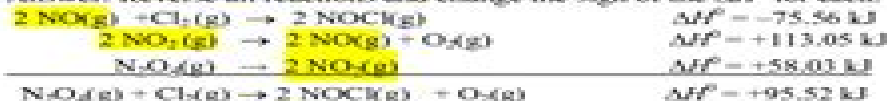
- a. II and IV  
b. II  
c. I and II  
d. I, II, III, and IV  
e. I, II, and IV

Answer: All elements in their natural standard state have a  $\Delta H_f^\circ = 0$ .

- A 3. From the following data at 25°C,

Calculate  $\Delta H^\circ$  at 25°C for the reaction below.

- a. +95.52 kJ  
b. +299 kJ  
c. -186.8 kJ  
d. -85.52 kJ  
e. -246.65 kJ

Answer: Reverse all reactions and change the sign of the  $\Delta H^\circ$  for each.

# Thermodynamics Problems And Answers

**Jessica J Manson**



## **Thermodynamics Problems And Answers:**

## **Thermodynamics Problems And Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Thermodynamics Problems And Answers**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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