

7. molar heat of condensation

### Part B True-False

8. AT                      10. ST                      12. NT  
9. NT                      11. NT

### Part C Matching

13. a                      15. b                      17. d  
14. e                      16. c

### Part D Questions and Problems

18. a. endothermic                      d. endothermic  
b. endothermic                      e. exothermic  
c. exothermic                      f. exothermic

$$19. \Delta H = 28.3 \frac{\text{g H}_2\text{O}(g)}{1 \text{ mol H}_2\text{O}(g)} \times \frac{1 \text{ mol H}_2\text{O}(g)}{18.0 \text{ g H}_2\text{O}(g)} \\ \times \frac{6.01 \text{ kJ}}{1 \text{ mol H}_2\text{O}(g)} = 9.45 \text{ kJ}$$

$$20. \Delta H = 5.53 \frac{\text{mol NH}_4\text{NO}_3(g)}{1 \text{ mol NH}_4\text{NO}_3(g)} \\ \times \frac{25.7 \text{ kJ}}{1 \text{ mol NH}_4\text{NO}_3(g)} = 142 \text{ kJ}$$

## Section 17.4

### Part A Completion

- sum
- enthalpy
- indirectly
- changed (reversed)
- standard heat of formation
- change
- one
- $\Delta H_f^\circ$
- zero
- subtracting

### Part B True-False

11. NT                      13. AT                      15. NT  
12. NT                      14. NT

### Part C Matching

16. b                      18. a                      20. c  
17. c                      19. d

### Part D Questions and Problems



$$22. \Delta H_f^\circ (\text{products}) \\ = 3 \frac{\text{mol CO}_2(g)}{1 \text{ mol CO}_2(g)} \times \frac{-393.5 \text{ kJ}}{1 \text{ mol CO}_2(g)} \\ = -1181 \text{ kJ} \\ \Delta H_f^\circ (\text{reactants}) \\ = 3 \frac{\text{mol CO}(g)}{1 \text{ mol CO}(g)} \times \frac{-110.5 \text{ kJ}}{1 \text{ mol CO}(g)} + (-822.1 \text{ kJ}) \\ = -1154 \text{ kJ} \\ \Delta H^\circ = \Delta H_f^\circ (\text{products}) - \Delta H_f^\circ (\text{reactants}) \\ = -1181 \text{ kJ} - (-1154 \text{ kJ}) \\ = -27 \text{ kJ}$$

## Practice Problems

### Section 17.1

- $200.0 \text{ Cal} \times \frac{1000 \text{ cal}}{1 \text{ Cal}} \times \frac{4.184 \text{ J}}{1 \text{ cal}} \times \frac{1 \text{ kJ}}{10^3 \text{ J}} \\ = 836.8 \text{ kJ}$
- $C = \frac{525.0 \text{ cal}}{25.0 \text{ g} \times 15.0^\circ\text{C}} = 1.40 \text{ cal/(g} \times ^\circ\text{C)}$
- $\Delta T = \frac{1255.0 \text{ J}}{100.0 \text{ g} \times 2.1 \text{ J/(g} \times ^\circ\text{C)}} = 6.0^\circ\text{C}$
- $q = 100.0 \text{ g} \times 120.0^\circ\text{C} \times 0.90 \frac{\text{J}}{\text{g} \times ^\circ\text{C}} \\ = 1.1 \times 10^3 \text{ J}$

### Section 17.2

- $\Delta H = 150.0 \text{ g} \times 4.18 \frac{\text{J}}{\text{g} \times ^\circ\text{C}} \times 10^\circ\text{C} \\ = 6.3 \times 10^3 \text{ J} = 6.3 \text{ kJ}$
- $\Delta H = 15.0 \text{ g Ca(OH)}_2(g) \times \frac{1 \text{ mol Ca(OH)}_2(g)}{74.1 \text{ g Ca(OH)}_2(g)} \\ \times \frac{-65.2 \text{ kJ}}{1 \text{ mol Ca(OH)}_2(g)} = -13.2 \text{ kJ}$
- $\Delta H = 52.4 \text{ g CH}_4(g) \times \frac{1 \text{ mol CH}_4(g)}{16.0 \text{ g CH}_4(g)} \\ \times \frac{-890.2 \text{ kJ}}{1 \text{ mol CH}_4(g)} = 2.93 \times 10^3 \text{ kJ}$
- $4\text{NH}_3 + 5\text{O}_2(g) \rightarrow 4\text{NO}(g) + 6\text{H}_2\text{O}(g) \\ \Delta H = \frac{-226 \text{ kJ}}{1 \text{ mol NH}_3(g)} \times 4 \text{ mol NH}_3(g) \\ = -904 \text{ kJ}$

# Prentice Hall Chemistry Workbook Answers Experiment 17

**Mike Jess**



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years the 17 of June has much deeper significance This was the day in 1953 when we finally fled from our life of oppression which had lasted 20 years Two successive dictatorships one of Hitler and the other of Stalin caused the most horrific slaughter of civilians and soldiers eclipsing all prior history During these first years of my life I was plainly lucky to survive After this day I had a much better chance to experience the freedom needed to lead a life of creativity satisfaction and ultimately prosperity all directed largely by our own decisions th The 17 of June 1953 was a Wednesday I stayed in the apartment of my parents in my hometown of Brandenburg in the German Democratic Republic GDR the former Russian occupied zone of Germany The summer vacation of the Humboldt University in East Berlin some 40 mi further east had just started But I was alone with my father Vati      **Subject Guide to Books in Print** ,1971      The Chemical Age ,1923

**The United States Catalog** Marion E. Potter,1912

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