

**Chem 100 Practice Test: Thermodynamics 3.5 – 5.5, 11.5****Equations**

$$q = m \Delta T \Delta T$$

$$q = m \Delta H_{\text{fus}}$$

$$q = m \Delta H_{\text{vap}}$$

$$\text{volume of } H_2O = 1.00 \text{ g/mL}$$

$$\Delta T = T_f - T_i$$

**Properties of water**

$$\Delta H_{\text{fus}} = 6.02 \text{ kJ/mol}$$

$$\Delta H_{\text{vap}} = 40.7 \text{ kJ/mol}$$

$$\Delta H_{\text{cond}} = -40.7 \text{ kJ/mol}$$

$$\Delta H_{\text{f}} = -285.8 \text{ kJ/mol}$$

$$\Delta H_{\text{f}} = -285.8 \text{ kJ/mol}$$

**Multiple choice**

Multiple choice and select-all-that-apply questions follow. (The selections will be noted)

(A) enthalpy

(B) volume

(C) heat

(D) enthalpy

(E) heat capacity

(F) specific heat

(G) heating curve

(H) heat of vaporization

(I) heat of condensation

1. ☒ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
2. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
3. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
4. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
5. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
6. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
7. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)

**Short answer questions**

8. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
9. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
10. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
11. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
12. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
13. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
14. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
15. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
16. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
17. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
18. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
19. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)
20. ☐ (A) ☐ (B) ☐ (C) ☐ (D) ☐ (E) ☐ (F) ☐ (G) ☐ (H) ☐ (I)

# Genchem Practice Test Thermochemistry

**M Woodhall**



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