

Thermochemistry Problems

1) Consider the following reaction:



- Is the reaction exothermic or endothermic?
- Calculate the amount of heat released if 2.4 g of Mg(s) reacts.
- How many grams of MgO are produced during an enthalpy change of 96.0 kJ?
- How many kilojoules of heat are absorbed when 7.50 g of MgO(s) are decomposed into Mg(s) and O₂(g) at constant pressure?

2) Choose endothermic and exothermic reactions below:

- $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$
- $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$
- $\text{HNO}_3 \rightarrow \text{H}_2\text{O} + \text{NO}_2 + \text{O}_2$
- $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$
- $\text{H}_2\text{O} + \text{CO}_2 \rightarrow \text{H}_2\text{CO}_3$

3) Choose endothermic and exothermic processes:

- Condensation
- Evaporation
- Boiling
- Freezing
- Sublimation

4) Determine the ΔH for each of the following reactions.

- $\text{C}_3\text{H}_8\text{(g)} + 5\text{O}_2\text{(g)} \rightarrow 3\text{CO}_2\text{(g)} + 4\text{H}_2\text{O(g)}$
- $\text{H}_2\text{(g)} + \text{Cl}_2\text{(g)} \rightarrow 2\text{HCl(g)}$
- $\text{CH}_4\text{(g)} + 2\text{O}_2\text{(g)} \rightarrow \text{CO}_2\text{(g)} + 2\text{H}_2\text{O(g)}$
- $\text{Na}_2\text{O(s)} + \text{SO}_2\text{(g)} \rightarrow \text{Na}_2\text{SO}_3\text{(s)}$

Thermochemistry Final Test

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