

Topic 4 Exercise 4 – Formation and Combustion Equations

- 1. Define the term "standard enthalpy of formation"
- 2. Write equations which represent the standard enthalpy of formation of the following substances:
 - a) MgO
 - b) CO₂
 - c) C_4H_{10}
 - d) C_2H_6O
 - e) Al_2O_3
- 3. Explain why the enthalpy of formation of all elements is always zero.
- 4. Define the term "standard enthalpy of combustion"
- 5. Write equations which represent the standard enthalpy of combustion of the following substances:
 - a) CH₄
 - b) C_6H_6
 - c) C_2H_6Q
 - d) H_2
 - e) Al
- 6. Identify three substances for which the enthalpy of combustion is zero.