Chemguide - questions

ENTHALPIES OF NEUTRALISATION

- 1. Define standard enthalpy change of neutralisation.
- 2. Write ionic equations for the following neutralisation reactions:
 - a) dilute hydrochloric acid + sodium hydroxide solution
 - b) dilute nitric acid + barium hydroxide solution
 - c) dilute sulphuric acid + potassium hydroxide solution
 - d) dilute ethanoic acid solution + sodium hydroxide solution
- 3. a) Explain why reactions involving a strong acid and a strong base all have values for standard enthalpy change of neutralisation of about -57 kJ mol⁻¹.

b) Explain briefly why neutralisation reactions involving weak acids or weak bases have values which differ those involving strong acids.