MINISTRY OF EDUCATION, HERITAGE AND ARTS YEAR 12 CHEMISTRY REVISION WORKSHEET 3

Write the answers to the following questions in your exercise/activity books.

Strand 3: Reactions

1. During a titration experiment, 10 mL of 0.05 mol L⁻¹ potassium carbonate (K₂CO₃) solution was titrated with hydrochloric acid (HCl) solution of unknown concentration.

It was found that an average volume of 25.00 mL of acid was required to reach the end-point.

The balanced equation for the reaction is:

$$K_2CO_{3(aq)}$$
 + $2HCl_{(aq)}$ \longrightarrow $2KCl_{(aq)}$ + $H_2O_{(l)}$ + $CO_{2(g)}$

The End