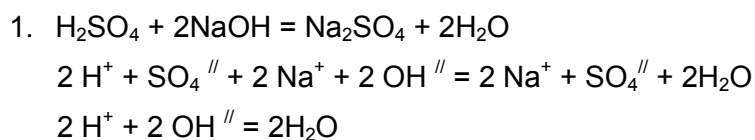


Question #78011, Chemistry, Other

1. Calculate the molar concentration of 20.0 mL of the sulphuric acid when 10 ml of 1.00 mol/L sodium hydroxide is used as the titrant.
2. Write the total ionic and net ionic equations for this reaction.

Answer:



$$C_M = n/V$$

$$n(\text{NaOH}) = 2 \times n(\text{H}_2\text{SO}_4)$$

$$C_M(\text{H}_2\text{SO}_4) \times 20 = 2 \times 1 \times 10$$

$$C_M(\text{H}_2\text{SO}_4) = 1 \text{ mol/L}$$