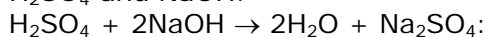


Tuesday:

Molarity from Titration Data Calculations

Complete the following titration problems as homework based on the neutralization reaction between H_2SO_4 and NaOH .



Use your Dry Lab and Class notes if necessary to help you do the calculations.

A. Find the Molarity of the NaOH:

1. 44.0 mL of a 0.70 M H_2SO_4 required 80.0 mL of NaOH to reach the endpoint.
2. 14.0 mL of a 0.25 M H_2SO_4 required 8.75 mL of NaOH to reach the endpoint.
3. 2.46 mL of a 0.875 M H_2SO_4 required 3.26 mL of NaOH to reach the endpoint.
4. 7.45 mL of a 3.05 M H_2SO_4 required 5.80 mL of NaOH to reach the endpoint.
5. 35.5 mL of a 6.25 M H_2SO_4 required 42.0 mL of NaOH to reach the endpoint.

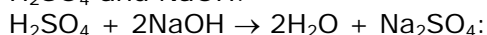
B. Calculate the Molarity of the following:

1. 55.0 grams of HCl dissolved in 1 liter
2. 43.6 grams of H_2SO_4 dissolved in 2 liters.

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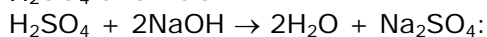
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