
Titration Worksheet

1. What is an acid/base indicator used for?

An acid base indicator is used to determine whether a solution is acidic or basic, and in titrations to tell when the equivalence point has been reached.

2. Define "titration":

The process of finding the unknown concentration of an acid (or base) by neutralizing it with a base (or acid) with known concentration.

3. In a few steps, describe how you would titrate a base of unknown concentration with an acid with concentration 1 M.

1)Put a known amount of the base in a container
2)Add a drop of indicator
3)Add acid until the indicator changes color permanently

4. A titration was performed where it took 50.0 mL of 0.10 M hydrochloric acid to neutralize 500.0 mL of a base with unknown concentration. Using this titration information, what was the concentration of the base?

0.010 M

5. A titration was performed where it took 25 mL of 5.0 M NaOH to neutralize 1000.0 mL of an acid with unknown concentration. Using this information, what was the concentration of the acid?

0.13 M