

## Investigating Acid-Base Titrations

A titration is a laboratory process used to determine the volume of a solution needed to react with a given amount of another solution. One of the most common titrations performed in a Chemistry lab is an acid-base titration. In the Initial Investigation, you will be assigned an acid solution to titrate with a solution of the strong base sodium hydroxide, NaOH. The concentration of the NaOH solution is given and you will determine the concentration of the acid solution.

Your assigned acid may be strong, such as hydrochloric acid, HCl, or weak, such as acetic acid, CH<sub>3</sub>COOH. When titrating a strong acid, the main objective is to determine the *equivalence point* of the titration. Near the equivalence point, the pH increases very rapidly, as shown in Figure 1. The graph of a strong acid-strong base titration is analyzed as accurately as possible to determine the exact amount of NaOH needed to neutralize all the acid.

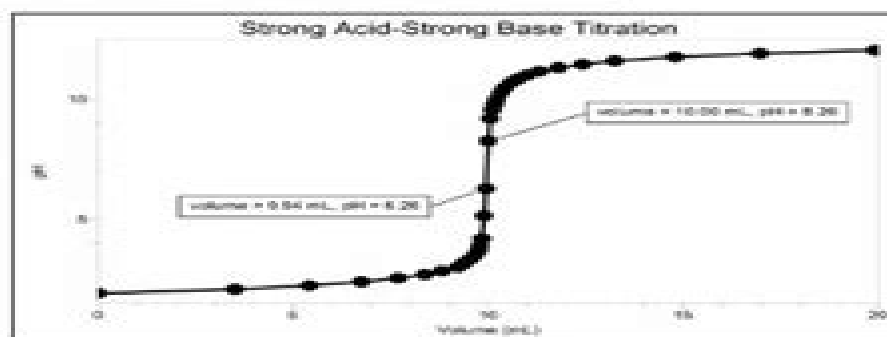


Figure 1

In the case of titrating a weak acid, a second objective is to determine an *equilibrium constant*. In reacting with a base, a weak acid will establish an equilibrium that can be evaluated mathematically, and is abbreviated as  $K_a$ . A  $K_a$  value is a unique quantity, which helps identify the acid. A weak acid may also have more than one  $K_a$ , depending on how many dissociation steps it undergoes in releasing ionizable hydrogen to form H<sub>3</sub>O<sup>+</sup> ions.

After completing the Initial Investigation, you will be given a weak acid solution of unknown identity and concentration to test by titration. It will be helpful to use reference sources to find out more about acids and bases, acid-base titrations, and weak acid equilibria before planning and conducting your investigation.

# Ap Lab 14 Acid Base Titration

**J. Weldon Bellville**



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## **Ap Lab 14 Acid Base Titration** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ap Lab 14 Acid Base Titration**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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