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The titration of a weak acid with a strong base (or of a weak base with a strong acid) is somewhat more complicated than that just discussed, but it follows the same general principles. Let us consider the titration of 25.0 mL of 0.100 M acetic acid (a weak acid) with 0.100 M sodium hydroxide and compare the titration curve with

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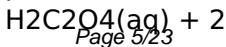
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that of the strong acid.

## **9.6: Acid-Base Titrations - Chemistry LibreTexts**

pH Titration Curves -  
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## **pH Titration Curves - Oneonta**

The balanced equation  
for the acid-base  
reaction involved in the  
standardization  
procedure is



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$\text{NaOH(aq)} \rightarrow$   
 $\text{Na}_2\text{C}_2\text{O}_4\text{(aq)} + 2$   
 $\text{H}_2\text{O(l)}$  This equation  
specifies that there are  
two moles of  $\text{H}^+$   
supplied by each mole  
of oxalic acid in this  
reaction (since 1 mole  
of  $\text{H}^+$  is consumed per  
mole of  $\text{NaOH}$ ).

## **AB titration expt - Oneonta**

Titration - Oneonta

## **Titration - Oneonta**

An acid - base titration

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is used to determine the unknown concentration of an acid or base by neutralizing it with an acid or base of known concentration.

Neutralization is the reaction between an acid and a base, producing a salt and a neutralized base.

## **Acid-Base Titrations** **| Boundless** **Chemistry**

An acid-base titration is

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an experimental procedure used to determined the unknown concentration of an acid or base by precisely neutralizing it with an acid or base of known concentration. This lets us quantitatively analyze the concentration of the unknown solution. Acid-base titrations can also be used to quantify the purity of chemicals.



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## **Acid-Base Titrations | Introduction to Chemistry**

Calculating pH for  
Titration Solutions:  
Strong Acid/Strong  
Base A titration is  
carried out for 25.00  
mL of 0.100 M HCl  
(strong acid) with  
0.100 M of a strong  
base NaOH (the  
titration curve is shown  
in Figure 14.18).  
Calculate the pH at  
these volumes of  
added base solution:

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## **14.7 Acid-Base Titrations - Chemistry 2e | OpenStax**

Acid-Base Reactions -  
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### **Acid-Base Reactions - Oneonta**

An acid–base titration is a method of quantitative analysis for determining the concentration of an acid or base by exactly neutralizing it with a

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standard solution of base or acid having known concentration. A pH indicator is used to monitor the progress of the acid-base reaction. If the acid dissociation constant of the acid or base dissociation constant of base in the analyte solution is known, its solution concentration can be determined.

Alternately, the  $pK_a$  can be determined if the ...

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## **Acid-base titration - Wikipedia**

Acid-Base Properties of  
Water Acid-Base  
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The pH Scale. Chapter  
17 Buffer Solutions The  
Common Ion Effect  
Common Ion Effect in  
Acid-Base Systems pH  
of Buffer Solutions  
Precipitation Reaction  
Systems Preparing  
Buffer Solutions  
Solubility and pH  
Solubility Product

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Constant pH Titration  
Curves. Chapter 18  
Free Energy and  
Temperature

## **General Chemistry Interactive Simulations - Oneonta**

1) Titration of a strong acid with a strong base  
Suppose our analyte is hydrochloric acid HCl (strong acid) and the titrant is sodium hydroxide NaOH (strong base). If we

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start plotting the pH of the analyte against the volume of NaOH that we are adding from the burette, we will get a titration curve as shown below.

## **Titration curves & equivalence point (article) | Khan Academy**

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## **Acid Base Titration Lab Prentice Hall**

It indicates when  
equivalent quantities of  
acid and base are

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present. For the titration of a strong acid with a strong base, the equivalence point occurs at a pH of 7.00 and the points on the titration curve can be calculated using solution stoichiometry (Table 4 and Figure 1).  
Figure 1.

## **14.7 Acid-Base Titrations - Chemistry**

When you carry out a simple acid-base



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titration, you use an indicator to tell you when you have the acid and alkali mixed in exactly the right proportions to "neutralise" each other. When the indicator changes colour, this is often described as the end point of the titration.

## **pH (TITRATION) CURVES - chemguide**

For the titration of a strong acid with a

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strong base, the equivalence point occurs at a pH of 7.00 and the points on the titration curve can be calculated using solution stoichiometry (Table 1 and Figure 1).

## **15.2 Acid-Base Titrations | Chemistry**

Before 1800, most acid-base titrations used  $\text{H}_2\text{SO}_4$ ,  $\text{HCl}$ , or  $\text{HNO}_3$  as acidic titrants, and  $\text{K}_2\text{CO}_3$

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or  $\text{Na}_2\text{CO}_3$  as basic titrants. A titration's end point was determined using litmus as an indicator, which is red in acidic solutions and blue in basic solutions, or by the cessation of  $\text{CO}_2$  effervescence when neutralizing  $\text{CO}_3^{2-}$ .

## **9.2: Acid-Base Titrations - Chemistry LibreTexts**

A 1.034 gram sample

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of impure oxalic acid is dissolved in water and an acid-base indicator added. The sample requires 34.47 milliliters of 0.485 molar sodium hydroxide to reach the equivalence point. What is the mass of oxalic acid, and what is its mass percent in the sample?

**Acid base titration  
example (video) |  
Khan Academy**

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A titration curve is a curve in graph the x-coordinate of which represents the volume of titrant added since the beginning of the titration, and the y-coordinate of which represents the concentration of the analyte at the corresponding stage of the titration (in an acid-base titration, the y-coordinate usually represents the pH of the solution). In an

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acid-base titration, the  
titration ...

## **Titration - Wikipedia**

Katharine Stevens Ms.  
Lovejoy AP Chemistry  
14 June 2020

Performing an Acid  
Base Titration to  
Calculate the Ionization  
Constant Background  
Information: A strong  
acid dissociates or  
ionizes completely or  
almost completely in  
water. A weak acid on  
the other hand does

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not ionize completely.  
This means that in  
weak acids the  
hydrogen ions are  
attached more strongly  
to the anion.

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