

Acid-Base Titration Quiz PDF

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Why is it important to calibrate the equipment used in a titration?	
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Discuss the importance of using a standard solution in titration.	
n a weak acid-strong base titration, the pH at the equivalence point is typically:	
Characteristics Less than 7	
Greater than 7	
○ Unchanged	
Capital to 7	

What are the implications of temperature changes during a titration experiment?



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What is the equivalence point in a titration?	
○ When the solution changes color	
○ When the pH is neutral	
When the solution reaches its boiling point	
○ When the acid and base have completely reacted	
How does the choice of indicator affect the outcome of a titration?	
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Which of the following are types of acid-base titrations?	
Strong acid-strong base	
Strong acid-weak base	
Weak acid-weak base	
Weak acid-strong base	
Which of the following is a strong acid?	
Acetic acid	
○ Ammonia○ Sodium hydroxide	
 ○ Sodium nydroxide ○ Hydrochloric acid 	

Which piece of equipment is used to accurately measure and deliver the titrant in a titration?



○ Beaker
○ Burette
○ Flasks
○ Pipette
Which of the following solutions can be used as a standard solution in titration?
☐ Sodium hydroxide
☐ Sulfuric acid
Acetic acid
Hydrochloric acid
What is the primary purpose of an acid-base titration?
○ To determine the color of an indicator
To find the concentration of an unknown acid or base
To calculate the volume of a solution
○ To measure the pH of a solution
In a titration, what can be used to determine the endpoint?
pH meter
Conductivity meter
☐ Temperature change
Color change of an indicator
Which indicator is commonly used in a strong acid-strong base titration?
○ Methyl orange
Methyl orangePhenolphthalein
Methyl orangePhenolphthaleinLitmust
Methyl orangePhenolphthalein
Methyl orangePhenolphthaleinLitmust
Methyl orangePhenolphthaleinLitmustBromothymol blue
 Methyl orange Phenolphthalein Litmust Bromothymol blue What is the role of an indicator in a titration?
 Methyl orange Phenolphthalein Litmust Bromothymol blue What is the role of an indicator in a titration? To react with the titrant

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What is the typical pH at the equivalence point for a strong acid-strong base titration?
\bigcirc 4
○ 9
O 11
○ 7
What factors can affect the accuracy of a titration?
☐ Temperature of the solution
☐ Speed of titrant addition
☐ Type of acid or base used
☐ Concentration of the titrant
What are the characteristics of a good titration indicator?
☐ Sharp color change at the endpoint
☐ Clear color in both acidic and basic forms
☐ Changes color at the equivalence point
High solubility in water
Explain the difference between the equivalence point and the endpoint in a titration.
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Explain the difference between the equivalence point and the endpoint in a titration.
Which of the following are common errors in titration?
Which of the following are common errors in titration? Misreading the meniscus
Which of the following are common errors in titration? Misreading the meniscus Over-titrating the solution
Which of the following are common errors in titration? Misreading the meniscus Over-titrating the solution Not stirring the solution

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