

Indicators Quiz PDF

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Which factors can affect the accuracy of an indicator? (Select all that apply)
☐ Temperature
☐ Volume of the solution
☐ Light exposure
☐ Concentration of the solution
What color does universal indicator turn in a strongly acidic solution?
○ Blue
○ Green
○ Yellow
○ Red
At what pH does litimus paper change color?
0 4
○ 10
○ 12
○ 7
Which of the following are examples of synthetic indicators? (Select all that apply)
Phenolphthalein
☐ Methyl orange
☐ Red cabbage juice
☐ Bromothymol blue
Which of the following are limitations of using indicators? (Select all that apply)
☐ They provide an approximate pH value
They are more precise than electronic pH meters

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☐ They can change color due to light exposure ☐ They can be affected by temperature
What is the transition pH range for phenolphthalein?
○ 3.1 to 4.4○ 4.5 to 6.0○ 11.0 to 12.5○ 8.2 to 10.0
What is the primary purpose of an indicator in chemistry?
 To measure temperature To determine the pH level of a solution To increase the volume of a solution To change the state of matter
Which indicator is commonly used in titrations involving strong acids and strong bases?
Methyl orangeLitimusBromothymol bluePhenolphthalein
Which of the following are true about the universal indicator? (Select all that apply)
 ☐ It is a single chemical compound ☐ It shows a gradual color change over a wide pH range ☐ It can indicate both acidic and basic solutions ☐ It is only used for educational purposes
What are some applications of indicators? (Select all that apply)
 Determining the endpoint of a titration Measuring electrical conductivity Testing the pH of soil Illustrating acid-base reactions in education

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Which of the following is a natural indicator?



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○ Phenolphthalein
○ Red cabbage juice
O Bromothymol blue
○ Methyl orange
Which indicator is colorless in acidic solutions and pink in basic solutions?
○ Methyl orange
○ Bromothymol blue
○ Litimus
○ Phenolphthalein
Which of the following are properties of indicators? (Select all that apply)
☐ They change color at a specific pH
☐ They can measure temperature
☐ They can be used to determine the concentration of a solution
☐ They provide a visual representation of pH
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