

Acid base test kit 1 answers

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What is Acid and Base?**

- Acids are substances that release hydrogen ions (H^+) in water.
- Bases are substances that release hydroxide ions (OH^-) in water.

What is an Acid-Base Indicator?

- An acid-base indicator is a substance that changes color depending on the acidity or alkalinity of a solution.

Tests to Identify Acids and Bases

- Litmus paper test: Acids turn blue litmus paper red, while bases turn red litmus paper blue.
- pH paper test: Acids have a pH below 7, while bases have a pH above 7.

Common Acid-Base Indicators

- Phenolphthalein: Colorless in acids, pink in bases
- Methyl orange: Red in acids, orange in bases
- Litmus: Red in acids, blue in bases
- Turmeric paper: Yellow in acids, reddish-brown in bases

pH of an Acid Base

- pH is a measure of the acidity or alkalinity of a solution, ranging from 0 (most acidic) to 14 (most alkaline).

- pH 7 is neutral.

20 Examples of Bases

- Sodium hydroxide (NaOH)
- Potassium hydroxide (KOH)
- Ammonia (NH₃)
- Calcium hydroxide (Ca(OH)₂)
- Magnesium hydroxide (Mg(OH)₂)

Why Does Phenolphthalein Turn Pink?

- Phenolphthalein is a weak acid that ionizes in water, releasing H⁺ ions.
- In acidic solutions, the H⁺ ions combine with the indicator to form a colorless compound.
- In basic solutions, the OH⁻ ions react with the indicator to form a pink compound.

10 Examples of Acid Base Indicators

- Litmus
- Phenolphthalein
- Methyl orange
- Methyl red
- Bromothymol blue
- Indigo carmine
- Thymol blue
- Alizarin yellow R
- Phenol red
- Cresol red

pH of Phenolphthalein Indicator

- Phenolphthalein changes color at a pH of around 8.3.

How to Identify Acid or Base

- Use litmus paper or pH paper to determine the pH of the solution.
- Acids have a sour taste, while bases have a bitter taste.
- Acids react with metals to produce hydrogen gas, while bases do not.

Relationship between $[H^+]$ and pH

- $pH = -\log[H^+]$
- The higher the $[H^+]$, the lower the pH (more acidic).

pH Test for Acid and Base

- Dip a piece of litmus paper or pH paper into the solution.
- The color change indicates the pH and whether the solution is acidic or basic.

Most Common Acid-Base Indicator

- Litmus

Difference Between Acid and Base

- Acid releases H^+ , while base releases OH^- .
- Acid tastes sour, while base tastes bitter.
- Acid reacts with metals, while base does not.

Is Vinegar an Acid or Base?

- Acid

Is pH 5 a Strong or Weak Acid?

- Weak acid

Is pH 10 Strong or Weak Base?

- Strong base

Can pH be Negative?

- No

Is Sugar Basic or Acidic?

- Acidic

Which are Weak Acids?

- Acetic acid (vinegar)
- Carbonic acid
- Boric acid

Is Toothpaste Acidic or Basic?

- Basic

Is Na_2CO_3 an Acid or Base?

- Base

Is Water an Acid or Base?

- Neutral

Is HCl an Acid or Base?

- Acid

What is in Acid and Base?

- Acid: H^+ ions
- Base: OH^- ions

What is an Acid Short Question Answer?

- A substance that releases H^+ ions in water.

What is Acid and Base Class 7 Short Answer?

- Acid: Substance that turns blue litmus paper red.
- Base: Substance that turns red litmus paper blue.

Is pH 5 a Strong or Weak Acid?

- Weak acid

What is the pH of Water?

- 7 (neutral)

Why Do Acids Dissolve in Water?

- The water molecules break apart the acid molecules, releasing H^+ ions.

Which is the Strongest Acid?

- Hydrofluoric acid (HF)

Why is called Acid?

- Originally, acids were sour and acidic in taste.

How Do You Test for Acid and Base?

- Use litmus paper or pH paper.

What Does pH Stand For?

- Power of hydrogen

Three Properties of an Acid

- Sour taste
- Reacts with metals to produce hydrogen gas

- Turns blue litmus paper red

What are Indicator?

- Substances that change color depending on the acidity or alkalinity of a solution.

What is an Acid Base Short Answer?

- Acid releases H^+ , while base releases OH^- .

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