

Topic 8: Acids, Bases, and Salts

1. Arrhenius theory of acids and bases: Recalling concept facts and definitions

- Which is a characteristic of aqueous solution of an acid?
 - It conducts electricity
 - It turns litmus blue
 - It forms OH^-
 - It turns phenolphthalein pink
- Which is a characteristic of aqueous solution of a base?
 - It turns phenolphthalein pink
 - It does not conduct electricity
 - It turns blue litmus red
 - It reacts with a metal
- When placed in a basic solution, litmus will turn
 - Red and phenolphthalein colorless
 - Red and phenolphthalein pink
 - blue and phenolphthalein colorless
 - blue and phenolphthalein pink
- In a solution of acid, litmus will be
 - Red and phenolphthalein colorless
 - Red and phenolphthalein pink
 - blue and phenolphthalein colorless
 - blue and phenolphthalein pink
- A solution of a base in the presence of an phenolphthalein will
 - Turn pink
 - Turn blue
 - Turn Red
 - Stay colorless
- Which property is of an acid but not of a base?
 - A solution of an acid is an electrolyte
 - A solution of an acid has effect on acid – base indicators
 - A solution of an acid contains more H^+ than OH^- ions
 - A solution of an acid turns litmus blue
- Which statement describes characteristics of an Arrhenius base?
 - It changes blue litmus to red and has a pH less than 7
 - It changes blue litmus to red and has a pH greater than 7
 - It changes red litmus to blue and has a pH less than 7
 - It changes red litmus to blue and has a pH greater than 7
- When a solution of an acid is tested with a pH paper, the result will be a pH
 - Above 7, and the solution will conduct electricity
 - Above 7, and the solution will not conduct electricity
 - Below 7, and the solution will conduct electricity
 - Below 7, and the solution will not conduct electricity
- When a solution of a base is tested with a pH paper, the result will be a pH
 - Above 7, and the solution will conduct electricity
 - Above 7, and the solution will not conduct electricity
 - Below 7, and the solution will conduct electricity
 - Below 7, and the solution will not conduct electricity