

Aqueous Reactions: Neutralization

1. What chemical species are present in a sample of nitric acid? Make sure to include all atoms, molecules, or ions present.

Hydrogen ions/Hydronium ions $\text{H}^+/\text{H}_3\text{O}^+$

Nitrate ions NO_3^-

Water molecules H_2O

2. What chemical species are present in a sodium hydroxide solution? Make sure to include all atoms, molecules, or ions present.

Sodium ions Na^+

Hydroxide ions OH^-

Water molecules H_2O

3. In the simulation, you mix nitric acid with sodium hydroxide. At the instant that these two solutions are mixed (before there is time for a reaction to occur), list all species present.

Hydrogen ions/Hydronium ions $\text{H}^+/\text{H}_3\text{O}^+$

Nitrate ions NO_3^-

Sodium ions Na^+

Hydroxide ions OH^-

Water molecules H_2O

4. Draw a picture to represent the system at the instant that the two solutions are mixed.

Neutralization Reactions Answers Key

Disha Experts

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Disha Experts' text.

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