

QUESTION

1. A 100 mL solution of 0.1 M NaOH is mixed with 100 mL of 0.1 M HCl. The resulting solution is then mixed with 100 mL of 0.1 M NaCl. What is the pH of the final solution?

2. A 100 mL solution of 0.1 M NaOH is mixed with 100 mL of 0.1 M HCl. The resulting solution is then mixed with 100 mL of 0.1 M NaCl. What is the pH of the final solution?

3. A 100 mL solution of 0.1 M NaOH is mixed with 100 mL of 0.1 M HCl. The resulting solution is then mixed with 100 mL of 0.1 M NaCl. What is the pH of the final solution?

ANSWER

1. The pH of the final solution is 7.0. The NaOH and HCl react to form NaCl and H₂O. The resulting solution is then mixed with 100 mL of 0.1 M NaCl, resulting in a final solution of 0.1 M NaCl. The pH of a 0.1 M NaCl solution is 7.0.

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