

Acids and Bases

1. Which of the following are weak bases?

KOH _____ NH₃ _____ CH₃NH₂ _____

Sr(OH)₂ _____ NaOH _____ NH₄⁺ _____

2. Label the following as strong or weak acids.

HClO _____ HI _____ HNO₂ _____

H₃PO₄ _____ HF _____ CH₃COOH _____

HClO₄ _____ H₂SO₃ _____ H₂SO₄ _____

3. Write the net ionic equation for the reaction of Sr(OH)₂ and HNO₃.

4. Write the net ionic equation for the reaction between aqueous solutions of HNO₂ and KOH.

5. What is the structural requirement for a substance to be classified as a base?