

Worksheet 4.5

Hydrolysis of Salts and Reactions of Acids and Bases

4.13 Hydrolysis of Salts

Describe each as an acid, base, neutral salt, acidic salt, or basic salt. For each salt write a parent acid-base formation equation, dissociation equation, and hydrolysis equation (only for acidic and basic salts). For acids and bases write an equation to show how each reacts with water.

1. NH_3

weak base



2. KCl

neutral salt



3. HNO_3

strong acid



4. NaHCO_3

basic salt



5. RbOH

strong base



6. AlCl_3

acid salt



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7. $\text{H}_2\text{C}_2\text{O}_4$

weak acid



8. $\text{NaC}_6\text{H}_5\text{O}$

basic salt



9. $\text{Co}(\text{NO}_3)_3$

acid salt



10. Na_2CO_3

basic salt



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