

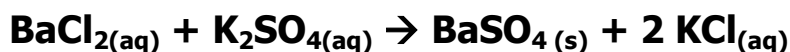
Write the equations for the following chemical reactions:

- 1) When dissolved barium chloride reacts with dissolved potassium sulfate in water, barium sulfate precipitate and aqueous potassium chloride are made.
- 2) When calcium chloride and potassium phosphate are dissolved in water they react to form aqueous potassium chloride and calcium phosphate powder.
- 3) When sucrose ( $C_{12}H_{22}O_{11}$ ) burns in oxygen, carbon dioxide, water and heat are produced.
- 4) When dissolved calcium hydroxide reacts with sulfuric acid ( $H_2SO_4$ ), a precipitate of calcium sulfate, water, and heat are formed.
- 5) When sodium metal reacts with iron (III) chloride, iron metal and sodium chloride are formed.

## Solutions

Write the equations for the following chemical reactions:

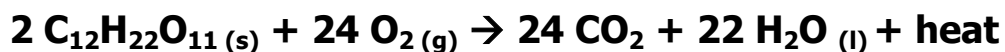
- 1) When dissolved barium chloride reacts with dissolved potassium sulfate in water, barium sulfate precipitate and aqueous potassium chloride are made.



- 2) When calcium chloride and potassium phosphate are dissolved in water they react to form aqueous potassium chloride and calcium phosphate powder.



- 3) When sucrose ( $C_{12}H_{22}O_{11}$ ) burns in oxygen, carbon dioxide, water and heat are produced.



- 4) When dissolved calcium hydroxide reacts with sulfuric acid ( $H_2SO_4$ ), a precipitate of calcium sulfate, water, and heat are formed.



- 5) When sodium metal reacts with iron (III) chloride, iron metal and sodium chloride are formed.

