

Predicting Products Practice

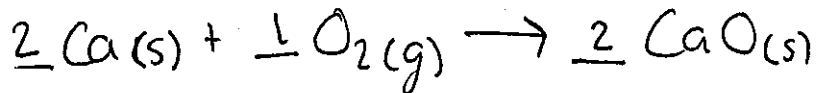
Name: Key

For each of the following:

- classify the reaction
- write the equation with correct formulas
- balance the equation

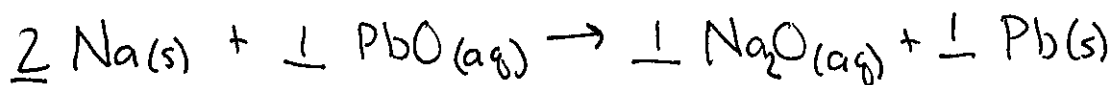
a. A strip of calcium metal is combined with oxygen in a Bunsen burner flame.

Classification: SYN



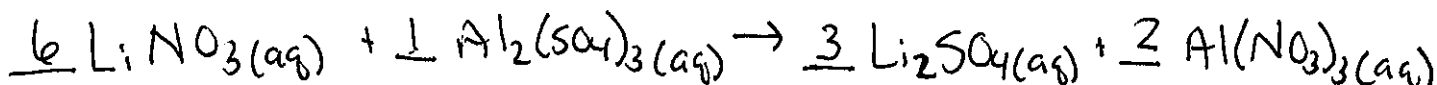
b. A piece of sodium metal is placed in an aqueous solution of lead (II) oxide.

Classification: S.R.



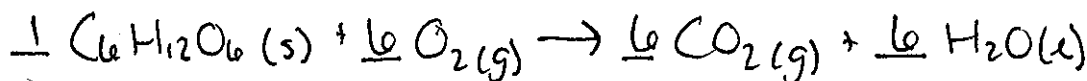
c. Aqueous lithium nitrate solution is combined with aqueous aluminum sulfate.

Classification: D.R.



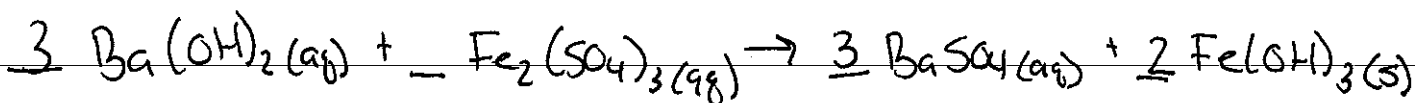
d. Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) is heated (combined with oxygen) in a flame.

Classification: COMB



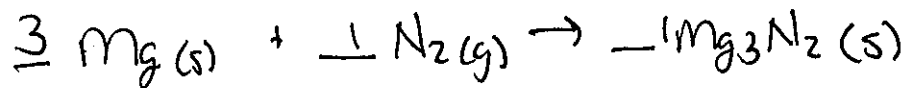
e. An aqueous solution of barium hydroxide is mixed with aqueous iron (III) sulfate.

Classification: DR



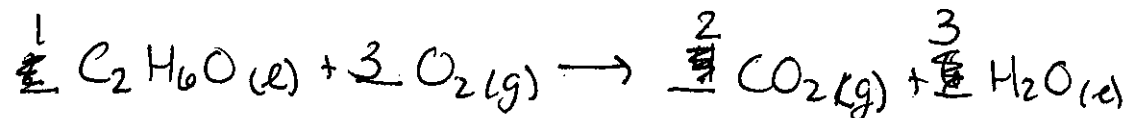
f. Magnesium metal is burned in nitrogen gas.

Classification: SYN



g. Ethanol ($\text{C}_2\text{H}_5\text{OH}$) is burned completely in air.

Classification: COMB



h. Solid sodium nitride is heated to decomposition.

Classification: DEC

