

Translating Reactions HW

For each of the following problems:

Translate the words into formulas. Include parentheses to represent the physical states.

Balance the equation.

State if the chemical equation represents a physical change or a chemical change.

1. When lithium hydroxide pellets are added to a solution of sulfuric acid, aqueous lithium sulfate and water are formed.
2. Water is boiling.
3. If a copper coil is placed into a solution of silver nitrate, silver crystals form. Additionally, highly soluble copper(I) nitrate is generated.
4. When crystalline $\text{C}_6\text{H}_{12}\text{O}_6$ is burned in oxygen, carbon dioxide and water vapor are formed.
5. When a chunk of palladium metal is ground into a very fine powder, the resulting powder is an excellent catalyst for chemical reactions.