

Writing & Identifying Chemical Reactions

Write and balance the skeleton equations described below, then identify the each type.

- | <u>Reaction</u> | <u>Type(s)</u> |
|--|----------------|
| 1. Butene gas (C_4H_8) reacts with oxygen gas to form carbon dioxide gas and water vapor. | _____ |
| 2. Hydrobromic acid solution reacts with barium hydroxide solution to form barium bromide solution and liquid water. | _____ |
| 3. Solid potassium nitrate is heated and forms solid potassium nitrite and oxygen gas. | _____ |
| 4. A solution of silver nitrate is mixed with a solution of aluminum chloride and forms solid silver chloride and aluminum nitrate solution. | _____ |
| 5. Solid iron powder reacts with gaseous oxygen to form solid iron(III) oxide (and lots of energy). | _____ |
| 6. Solid silver reacts with octasulfur (an allotrope of sulfur) to form solid silver sulfide. | _____ |
| 7. Solid magnesium carbonate is heated and forms solid magnesium oxide and carbon dioxide gas. | _____ |
| 8. Fluorine gas reacts with a solution of iron(III) chloride to form chlorine gas and iron(III) fluoride solution. | _____ |
| 9. Solid zinc reacts with a solution of gold(III) nitrate to form solid gold and zinc nitrate. | _____ |
| 10. Propanol (C_3H_7OH) liquid reacts with oxygen gas to form carbon dioxide gas and water vapor. | _____ |