

Practice Predicting Products of Reactions

Combination/Synthesis

1. hydrogen burned in oxygen
 2. hydrogen gas + nitrogen gas
 3. sulfur burned (complete combustion)
 4. calcium oxide added to water
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Decomposition

1. barium hydroxide (heated)
 2. sodium carbonate (heated)
 3. lithium chlorate (heated)
 4. electrolysis of aluminum oxide
 5. sulfuric acid heated gently
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Single Replacement

1. iron filings added to copper(II) sulfate in solution
 2. aluminum in hydrochloric acid
 3. potassium metal added to cold water
 4. zinc metal added to mercury(II) nitrate
 5. silver metal added to copper(II) sulfate
 6. chlorine gas bubbled through a solution of calcium bromide
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Double Replacement

1. potassium iodide added to lead(II) nitrate
 2. sodium sulfite combined with acetic acid
 3. sodium chloride added to sulfuric acid
 4. barium nitrate added to sodium oxalate
 5. sodium bicarbonate added to hydrochloric acid
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Combustion

1. C_3H_7OH (complete combustion)
 2. C_5H_{10} (complete combustion)
 3. $C_6H_{12}O_6$ (complete combustion)
 4. C_7H_8 (complete combustion)
 5. C_8H_{18} (complete combustion)
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