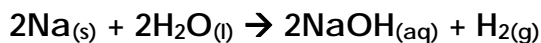
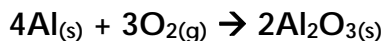


Stoichiometry Problems



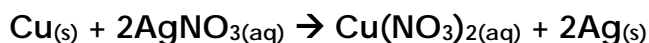
1. If 90.0 g of sodium are dropped into excess water, how many liters of hydrogen gas would be produced at standard pressure and 22°C assuming all of the sodium reacts?



2. If 100.0 g of aluminum is oxidized completely, how many grams of aluminum oxide would be produced?



3. How many liters of carbon dioxide would be produced at standard pressure and 25 °C for every 1.00 kg of tin produced?



4. 5.00 grams of copper are placed into 300.0mL of a 0.20M solution of silver nitrate. How many grams of silver are produced? Does any unreacted copper remain?



5. If a balloon is to be filled with 5.0 L of hydrogen at standard pressure and 20 °C, how many mL of 0.3M sulfuric acid are needed and how many grams of iron are needed. (Assume the reaction has a 92% yield).



6. If 10.0 grams of potassium chlorate are heated until no more oxygen is released, how many grams of potassium chloride will remain in the reaction vessel?