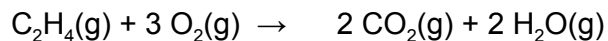


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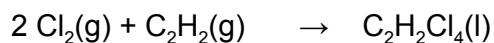
Quiz 11.2

1. Ethylene burns in oxygen to form carbon dioxide and water vapor:



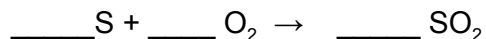
How many liters of water can be formed if 1.25 liters of ethylene are consumed in this reaction?

2. When chlorine is added to acetylene, 1,1,2,2-tetrachloroethane is formed:



How many liters of chlorine will be needed to make 75.0 grams of $\text{C}_2\text{H}_2\text{Cl}_4$?

3. What volume of oxygen is needed to react with solid sulfur to form 3.5 L SO_2 ?



4. How many liters of propane gas (C_3H_8) will undergo complete combustion with 34.0L of oxygen gas? Equation:

Name: _____ Period: _____ Date: _____

5. Ammonium nitrate is a common ingredient in chemical fertilizers. Use the reaction shown to calculate the mass of solid ammonium nitrate that must be used to obtain 0.100 L of dinitrogen monoxide gas at STP.



6. Solid potassium metal will react with Cl₂ gas to form ionic potassium chloride. How many liters of Cl₂ gas are needed to completely react with 204 g of potassium at STP?