

**Gas Stoichiometry Practice 1.0 - Answer Key****Objective:** - Perform stoichiometry calculations of gases including those at STP using molar volume**Directions:** Solve each gas stoichiometry problem. Show all work. Include units.

1. Calculate the volume of hydrogen gas that will react with exactly 4.6 L of oxygen gas using the equation below. Assume there is no change in temperature or pressure.



$$4.6 \text{ L O}_2 \left( \frac{2 \text{ L H}_2}{1 \text{ L O}_2} \right) = \boxed{9.2 \text{ L H}_2}$$

2. What volume of CO<sub>2</sub> gas will be produced from 17.5 L of oxygen gas reacting with excess ethane?



$$17.5 \text{ L O}_2 \left( \frac{4 \text{ L CO}_2}{7 \text{ L O}_2} \right) = \boxed{10.0 \text{ L CO}_2}$$

3. What volume of hydrogen at STP can be produced from the reaction of 56.5 g of zinc with hydrochloric acid?



$$56.5 \text{ g Zn} \left( \frac{1 \text{ mol Zn}}{65.38 \text{ g Zn}} \right) \left( \frac{1 \text{ mol H}_2}{1 \text{ mol Zn}} \right) \left( \frac{22.4 \text{ L H}_2}{1 \text{ mol H}_2} \right) = \boxed{19.3 \text{ L H}_2}$$

4. How many grams of NaCl can be produced by the reaction of 12.6 L of chlorine at STP with an excess of sodium?



$$12.6 \text{ L Cl}_2 \left( \frac{1 \text{ mol Cl}_2}{22.4 \text{ L Cl}_2} \right) \left( \frac{2 \text{ mol NaCl}}{1 \text{ mol Cl}_2} \right) \left( \frac{58.44 \text{ g NaCl}}{1 \text{ mol NaCl}} \right) = \boxed{65.7 \text{ g NaCl}}$$

5. In order to produce 50.0 liters of ammonia gas (NH<sub>3</sub>) at STP, how many grams of both hydrogen and nitrogen would you need to react?



$$50.0 \text{ L NH}_3 \left( \frac{1 \text{ mol NH}_3}{22.4 \text{ L NH}_3} \right) \left( \frac{1 \text{ mol N}_2}{2 \text{ mol NH}_3} \right) \left( \frac{28.02 \text{ g N}_2}{1 \text{ mol N}_2} \right) = \boxed{21.2 \text{ g N}_2}$$

$$50.0 \text{ L NH}_3 \left( \frac{1 \text{ mol NH}_3}{22.4 \text{ L NH}_3} \right) \left( \frac{3 \text{ mol H}_2}{2 \text{ mol NH}_3} \right) \left( \frac{2.02 \text{ g H}_2}{1 \text{ mol H}_2} \right) = \boxed{6.75 \text{ g H}_2}$$

# Gas Stoichiometry Practice Answers

**Yijin Wang**



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