

Stoichiometry Worksheet #2 (mole-mass, mass-mole problems)



- a. If 15.0g of N_2O_4 was produced, how many moles of O_2 were required?

$$\frac{15.0\text{g N}_2\text{O}_4}{92.0\text{g N}_2\text{O}_4} \left| \frac{1 \text{ mol N}_2\text{O}_4}{1 \text{ mol N}_2\text{O}_4} \right| \frac{2 \text{ mol O}_2}{1 \text{ mol N}_2\text{O}_4} = 0.326 \text{ mol O}_2$$

- b. If 4.0×10^{-3} moles of oxygen reacted, how many grams of N_2 were needed?

$$\frac{4.0 \times 10^{-3} \text{ mol O}_2}{2 \text{ mol O}_2} \left| \frac{1 \text{ mol N}_2}{2 \text{ mol O}_2} \right| \frac{28.0\text{g N}_2}{1 \text{ mol N}_2} = 5.6 \times 10^{-2} \text{ g N}_2$$



- a. What is the mass of potassium nitrate that is produced when 2.04 moles of potassium phosphate react?

$$\frac{2.04 \text{ mol K}_3\text{PO}_4}{1 \text{ mol K}_3\text{PO}_4} \left| \frac{3 \text{ mol KNO}_3}{1 \text{ mol K}_3\text{PO}_4} \right| \frac{101.1 \text{ g KNO}_3}{1 \text{ mol KNO}_3} = 619\text{g KNO}_3$$

- b. If 5.80g of aluminum phosphate are formed, how many moles of aluminum nitrate reacted?

$$\frac{5.80\text{g AlPO}_4}{122.0\text{g AlPO}_4} \left| \frac{1 \text{ mol AlPO}_4}{122.0\text{g AlPO}_4} \right| \frac{1 \text{ mol Al}(\text{NO}_3)_3}{1 \text{ mol AlPO}_4} = 4.75 \times 10^{-2} \text{ mol Al}(\text{NO}_3)_3$$



- a. If you have 5.50 mol of CaC_2 , how much C_2H_2 do you get?

$$\frac{5.50 \text{ mol CaC}_2}{1 \text{ mol CaC}_2} \left| \frac{1 \text{ mol C}_2\text{H}_2}{1 \text{ mol CaC}_2} \right| \frac{26.0\text{g C}_2\text{H}_2}{1 \text{ mol C}_2\text{H}_2} = 143\text{g C}_2\text{H}_2$$

- b. How many moles of water are needed when 65.0g of CaC_2 have reacted?

$$\frac{65.0\text{g CaC}_2}{64.1\text{g CaC}_2} \left| \frac{1 \text{ mol CaC}_2}{64.1\text{g CaC}_2} \right| \frac{2 \text{ mol H}_2\text{O}}{1 \text{ mol CaC}_2} = 2.03 \text{ mol H}_2\text{O}$$

4. In photosynthesis, water reacts with carbon dioxide to give oxygen and glucose ($\text{C}_6\text{H}_{12}\text{O}_6$). Write and balance the chemical equation. How many moles of CO_2 are required to make 120.0g of glucose?



$$\frac{120.0\text{g C}_6\text{H}_{12}\text{O}_6}{180.0 \text{ g C}_6\text{H}_{12}\text{O}_6} \left| \frac{1 \text{ mol C}_6\text{H}_{12}\text{O}_6}{180.0 \text{ g C}_6\text{H}_{12}\text{O}_6} \right| \frac{6 \text{ mol CO}_2}{1 \text{ mol C}_6\text{H}_{12}\text{O}_6} = 4.000 \text{ mol CO}_2$$

Mass Mass Stoichiometry Packet Answers

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