12. Urea, (NH<sub>2</sub>)<sub>2</sub>CO, is an important fertilizer that is manufactured by the following reaction.

$$2NH_3(g) + CO_2(g) \rightarrow (NH_2)_2CO(s) + H_2O(g)$$

What volume of NH<sub>3</sub> at STP will be needed to produce  $8.50 \times 10^4$  kg of urea if there is an 89.5% yield in the process?

13. An obsolete method of generating oxygen in the laboratory involves the decomposition of barium peroxide by the following equation.

$$2\text{BaO}_2(s) \to 2\text{BaO}(s) + \text{O}_2(g)$$

What mass of BaO<sub>2</sub> reacted if 265 mL of O<sub>2</sub> is collected by water displacement. at 0.975 atm and 10.°C?

onto solid potassium permanganate according to the following equation.  $2KMnO_4(s) + 16HCl(aq) \rightarrow 2KCl(aq) + 2MnCl_2(aq) + 8H_2O(l) + 5Cl_2(g)$ If excess HCl is dripped onto 15.0 g of KMnO<sub>4</sub>, what volume of Cl<sub>2</sub> will be produced? The Cl<sub>2</sub> is measured at 15°C and 0.959 atm.

14. It is possible to generate chlorine gas by dripping concentrated HCl solution

Ammonia can be oxidized in the presence of a platinum catalyst according to the following equation.

$$4NH_3(g) + 5O_2(g) \rightarrow 4NO(g) + 6H_2O(l)$$

The NO that is produced reacts almost immediately with additional oxygen according to the following equation.

$$2NO(g) + O_2(g) \rightarrow 2NO_2(g)$$

If 35.0 kL of oxygen at STP react in the first reaction, what volume of NH<sub>3</sub> at STP reacts with it? What volume of NO<sub>2</sub> at STP will be formed in the second reaction, assuming there is excess oxygen that was not used up in the first reaction?

16. Oxygen can be generated in the laboratory by heating potassium chlorate. The reaction is represented by the following equation.

$$2\text{KClO}_3(s) \rightarrow 2\text{KCl}(s) + 3\text{O}_2(g)$$

What mass of KClO<sub>3</sub> must be used in order to generate 5.00 L of O<sub>2</sub>, measured at STP?

17. One of the reactions in the Solvay process is used to make sodium hydrogen carbonate. It occurs when carbon dioxide and ammonia are passed through concentrated salt brine. The following equation represents the reaction.

$$NaCl(aq) + H_2O(l) + CO_2(g) + NH_3(g) \rightarrow NaHCO_3(s) + NH_4Cl(aq)$$

- a. What volume of NH<sub>3</sub> at 25°C and 1.00 atm pressure will be required if 38 000 L of CO2, measured under the same conditions, react to form NaHCO<sub>3</sub>?
- b. What mass of NaHCO<sub>3</sub> can be formed when the gases in (a) react with NaCl?

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