

# Limiting Reagent Worksheet

## Answers

- ① Given the following reaction:



Balance the reaction.

- ① Suppose 14.8 g of  $\text{C}_3\text{H}_8$  reacts with 3.44 g of  $\text{O}_2$ . Determine the limiting reagent.

$$14.8 \text{ g C}_3\text{H}_8 \times \frac{1 \text{ mol C}_3\text{H}_8}{44.09 \text{ g C}_3\text{H}_8} \times \frac{4 \text{ mol H}_2\text{O}}{1 \text{ mol C}_3\text{H}_8} \times \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}} = 24.2 \text{ g H}_2\text{O}$$

$$3.44 \text{ g O}_2 \times \frac{1 \text{ mol O}_2}{32 \text{ g O}_2} \times \frac{4 \text{ mol H}_2\text{O}}{5 \text{ mol O}_2} \times \frac{18.02 \text{ g H}_2\text{O}}{1 \text{ mol H}_2\text{O}} = 1.55 \text{ g H}_2\text{O}$$

Since  $\text{O}_2$  produces less quantity of  $\text{H}_2\text{O}$  than  $\text{C}_3\text{H}_8$  does, it is the limiting reagent.

- ② Determine the amount of  $\text{CO}_2$  produced.

$$3.44 \text{ g O}_2 \times \frac{1 \text{ mol O}_2}{32 \text{ g O}_2} \times \frac{3 \text{ mol CO}_2}{5 \text{ mol O}_2} \times \frac{44.01 \text{ g CO}_2}{1 \text{ mol H}_2\text{O}} = 2.84 \text{ g CO}_2$$

- ② Given the following reaction:



Balance the reaction.

- ① What is the limiting reagent if 2.2 g of Mg reacts with 4.5 L of  $\text{O}_2$  at STP?

$$2.2 \text{ g Mg} \times \frac{1 \text{ mol Mg}}{24.3 \text{ g Mg}} \times \frac{2 \text{ mol MgO}}{2 \text{ mol Mg}} = 0.0905 \text{ mol MgO}$$

$$4.5 \text{ L O}_2 \times \frac{1 \text{ mol O}_2}{22.4 \text{ L O}_2} \times \frac{2 \text{ mol MgO}}{1 \text{ mol O}_2} = 0.401 \text{ mol MgO}$$

Since Mg produces less MgO than  $\text{O}_2$ , Mg is the limiting reagent.

- ② Determine the amount of MgO produced in grams.

$$0.095 \text{ mol MgO} \times \frac{40.31 \text{ g MgO}}{1 \text{ mol MgO}} = 3.83 \text{ g MgO}$$

# Limiting Reagent Gizmo Answer Key

**CL Gary**



## **Limiting Reagent Gizmo Answer Key:**

## The Enigmatic Realm of **Limiting Reagent Gizmo Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Limiting Reagent Gizmo Answer Key** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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