Name: Date:

Limiting Reagent Worksheet

Answers

Given the following reaction:

 $C_1H_A + \underline{5} O_1 \rightarrow \underline{3} CO_1 + \underline{4} H_1O_2$

Balance the reaction.

Suppose 14.8 g of C₃H₈ reacts with 3.44 g of O₂. Determine the limiting reagent.

 $14.8 \text{ g C}_{3}H_{8} \times \frac{1 \text{ mol C}_{3}H_{8}}{44.09 \text{ g C}_{3}H_{8}} \times \frac{4 \text{ mol H}_{2}O}{1 \text{ mol C}_{3}H_{8}} \times \frac{18.02 \text{ g H}_{2}O}{1 \text{ mol H}_{2}O} = 24.2 \text{ g H}_{2}O$ $3.44 \text{ g O}_{2} \times \frac{1 \text{ mol O}_{2}}{32 \text{ g O}_{3}} \times \frac{4 \text{ mol H}_{2}O}{5 \text{ mol O}_{3}} \times \frac{18.02 \text{ g H}_{2}O}{1 \text{ mol H}_{3}O} = 1.55 \text{ g H}_{2}O$

Since O, produces less quantity of H,O than C,H, does, it is the limiting reagent.

(b) Determine the amount of CO, produced.

3.44 g O₂ × 1 mol O₂ × 3 mol CO₂ × 44.01 g CO₂ = 2.84 g CO₂

Given the following reaction:

____ Mg + ___ O₂ → _2 MgO

Balance the reaction.

What is the limiting reagent if 2.2 g of Mg reacts with 4.5 L of O, at STP?

2.2 g Mg * $\frac{1 \text{ mol Mg}}{24.3 \text{ g Mg}}$ * $\frac{2 \text{ mol MgO}}{2 \text{ mol Mg}}$ = 0.0905 mol MgO 4.5 L O₂ * $\frac{1 \text{ mol O}_2}{22.4 \text{ L O}_2}$ * $\frac{2 \text{ mol MgO}}{1 \text{ mol O}_2}$ * = 0.401 mol MgO

Since Mg produces less MgO than O, Mg is the limiting reagent.

Determine the amount of MgO produced in grams.

0.095 mol MgO × 40.31 g MgO = 3.83 g MgO

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