

## Limiting Reactants Worksheet KEY

Answer the following questions, using stoichiometry to convert between moles of one substance and moles of another substance within a reaction and using molar masses to convert between grams of a substance and moles of that substance.

Given the following reaction:  $\text{C}_5\text{H}_{12} + 8 \text{O}_2 \rightarrow 5 \text{CO}_2 + 6 \text{H}_2\text{O}$

1. If 5.25 grams of pentane ( $\text{C}_5\text{H}_{12}$ ) are completely reacted with oxygen ( $\text{O}_2$ ), how many grams of carbon dioxide ( $\text{CO}_2$ ) will be produced?

$$5.25 \text{ g C}_5\text{H}_{12} \times \frac{1 \text{ mol C}_5\text{H}_{12}}{72.151 \text{ g C}_5\text{H}_{12}} = 0.07276 \text{ mol C}_5\text{H}_{12}$$

$$0.07276 \text{ mol C}_5\text{H}_{12} \times \frac{5 \text{ mol CO}_2}{1 \text{ mol C}_5\text{H}_{12}} = 0.3638 \text{ mol CO}_2$$

$$0.3638 \text{ mol CO}_2 \times \frac{44.009 \text{ g CO}_2}{1 \text{ mol CO}_2} = 16.0 \text{ g CO}_2$$

2. If 9.75 grams of oxygen ( $\text{O}_2$ ) are completely reacted with pentane ( $\text{C}_5\text{H}_{12}$ ), how many grams of carbon dioxide ( $\text{CO}_2$ ) will be produced?

$$9.75 \text{ g O}_2 \times \frac{1 \text{ mol O}_2}{31.998 \text{ g O}_2} = 0.3047 \text{ mol O}_2$$

$$0.3047 \text{ mol O}_2 \times \frac{5 \text{ mol CO}_2}{8 \text{ mol O}_2} = 0.1904 \text{ mol CO}_2$$

$$0.1904 \text{ mol CO}_2 \times \frac{44.009 \text{ g CO}_2}{1 \text{ mol CO}_2} = 8.38 \text{ g CO}_2$$

3. Based on your answers to question #1 and 2, if 5.25 grams of pentane are reacted with 9.75 grams of oxygen, what is the limiting reactant and how many grams of  $\text{CO}_2$  actually form?

**Limiting reactant:  $\text{O}_2$**

**8.38 g  $\text{CO}_2$  actually form**

# Limiting Reactants Key

**Liyong Dong**



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