

Limiting Reactant Worksheet #2

1. Given the following reaction: (Balance the equation first!)



- If you start with 14.8 g of C_3H_8 and 3.44 g of O_2 , determine the limiting reactant.
- Determine the number of moles of carbon dioxide produced.
- Determine the number of grams of H_2O produced.
- Determine the number of grams of excess reactant left.

2. Given the following equation:



- If 10.0 g of $\text{Al}_2(\text{SO}_4)_3$ is reacted with 10.0 g of NaOH , determine the limiting reactant.
- Determine the number of moles of $\text{Al}(\text{OH})_3$ produced.
- Determine the number of grams of Na_2SO_4 produced.
- Determine the number of grams of excess reactant left over in the reaction.

3. Given the following equation:



- If 25.4 g of Al_2O_3 is reacted with 10.2 g of Fe , determine the limiting reactant.
- Determine the number of moles of Al produced.
- Determine the number of grams of Fe_3O_4 produced.
- Determine the number of grams of excess reactant left over in the reaction.

4. Consider the reaction



- 80.0 grams of I_2O_5 , reacts with 28.0 grams of carbon monoxide, CO . Determine the mass of iodine I_2 , which could be produced?
- If, in the above situation, only 0.160 moles, of iodine, I_2 was produced.
 - What mass of iodine was produced?
 - What percentage yield of iodine was produced?

5. Zinc and sulfur react to form zinc sulfide according to the equation



If 25.0 g of zinc and 30.0 g of sulfur are mixed,

- Which chemical is the limiting reactant?
- How many grams of ZnS will be formed?
- How many grams of the excess reactant will remain after the reaction is over?

6. Which element is in excess when 3.00 grams of Mg is ignited in 2.20 grams of pure oxygen? What mass is in excess? What mass of MgO is formed?

7. How many grams of Al_2S_3 are formed when 5.00 grams of Al is heated with 10.0 grams S ?

Limiting Reagent Answer Key

Thomas Elliott Taylor

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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