

## Limiting Reagents and Percentage Yield Worksheet

### 1. Consider the reaction

*iodine  
pentoxide*



a) 80.0 grams of iodine(V) oxide,  $\text{I}_2\text{O}_5$ , reacts with 28.0 grams of carbon monoxide,  $\text{CO}$ .

Determine the mass of iodine  $\text{I}_2$ , which could be produced?

b) If, in the above situation, only 0.160 moles, of iodine,  $\text{I}_2$  was produced.

i) what mass of iodine was produced?

ii) what percentage yield of iodine was produced.

### 2. Zinc and sulphur react to form zinc sulphide according to the equation.



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

a) Which chemical is the limiting reactant?

b) How many grams of  $\text{ZnS}$  will be formed?

c) How many grams of the excess reactant will remain after the reaction is over?

### 3. Which element is in excess when 3.00 grams of $\text{Mg}$ is ignited in 2.20 grams of pure oxygen?

What mass is in excess? What mass of  $\text{MgO}$  is formed?

### 4. How many grams of $\text{Al}_2\text{S}_3$ are formed when 5.00 grams of $\text{Al}$ is heated with 10.0 grams $\text{S}$ ?

### 5. When $\text{MoO}_3$ and $\text{Zn}$ are heated together they react



What mass of  $\text{ZnO}$  is formed when 20.0 grams of  $\text{MoO}_3$  is reacted with 10.0 grams of  $\text{Zn}$ ?

### 6. Silver nitrate, $\text{AgNO}_3$ , reacts with ferric chloride, $\text{FeCl}_3$ , to give silver chloride, $\text{AgCl}$ , and ferric nitrate, $\text{Fe}(\text{NO}_3)_3$ . In a particular experiment, it was planned to mix a solution containing 25.0 g of $\text{AgNO}_3$ with another solution containing 45.0 grams of $\text{FeCl}_3$ .

a) Write the chemical equation for the reaction.

b) Which reactant is the limiting reactant?

c) What is the maximum number of moles of  $\text{AgCl}$  that could be obtained from this mixture?

# Limiting Reagent And Percent Yield 9 3 Review

**Yicheng Fang**



## **Limiting Reagent And Percent Yield 9 3 Review:**

## **Limiting Reagebt And Percent Yield 9 3 Review** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Limiting Reagebt And Percent Yield 9 3 Review**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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