

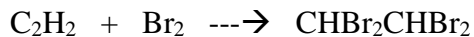
LT 7.2 Percent Yield Practice

1. Calculate the percent yields in each of the following cases:
 - a. Theoretical yield 50.0 g of product; actual yield 41.9 g
 - b. Theoretical yield is 290 kg of product; actual yield is 270 kg
 - c. Theoretical yield is 64 kg of product; actual yield is 324 g



What is the percent yield, if the quantity of reactants is sufficient to produce 0.86 g of Cl_2O but only 0.71 g is obtained?

3. Using the following reaction:



If 72.0 g of C_2H_2 reacts with 23.5 grams of excess bromine and 729 g of the product is recovered, what is the percent yield of the reaction?

4. Using the following equation: $\text{As}_2\text{O}_3 + \text{C} \text{ ---} \rightarrow \text{CO}_2 + \text{As}$.

If 8.87 g of As_2O_3 is used in the reaction and 5.33 g of As is produced, what is the percent yield?

5. Using the following reaction: $\text{CS}_2 + \text{Cl}_2 \text{ ---} \rightarrow \text{CCl}_4 + \text{S}_2\text{Cl}_2$

If 4.3 moles of CS_2 were to react with 5.6 moles Cl_2 , what is the limiting reactant? The above reaction produced 211 g CCl_4 , what is the percent yield?