

Name: Key
 Date: _____ Block: _____

Stoichiometry and Percent Yield Practice

Answer the following questions about theoretical yield and percent yield. Make sure you show all work, units, and round for sig figs.

1. Use the following equation to answer the questions below.



If I start this reaction with 57.0 grams of nitrogen with excess hydrogen, how many grams of ammonia (NH_3) can theoretically be produced?

$$57.0 \text{ g N}_2 \times \frac{1 \text{ mol N}_2}{28.014 \text{ g N}_2} \times \frac{2 \text{ mol NH}_3}{1 \text{ mol N}_2} \times \frac{17.031 \text{ g NH}_3}{1 \text{ mol NH}_3} = \boxed{69.3 \text{ g NH}_3}$$

If 60.0 grams of ammonia is actually produced, what was my percent yield of ammonia?

$$\frac{60.0}{69.3} \times 100 = \boxed{86.6\%}$$

2. Use the following equation to answer the questions below.



If 11.3 grams of carbon dioxide gas is used in this reaction, how many grams of lithium carbonate can theoretically be produced?

$$11.3 \text{ g CO}_2 \times \frac{1 \text{ mol CO}_2}{44.009 \text{ g CO}_2} \times \frac{1 \text{ mol Li}_2\text{CO}_3}{1 \text{ mol CO}_2} \times \frac{73.87 \text{ g Li}_2\text{CO}_3}{1 \text{ mol Li}_2\text{CO}_3} = \boxed{19.0 \text{ g Li}_2\text{CO}_3}$$

If 14.4 grams of lithium carbonate are actually produced, what was my percent yield?

$$\frac{14.4}{19.0} \times 100 = \boxed{75.8\%}$$

Modeling Chemistry Stoichiometry 2 Percent Yield Answers

AW Rasmussen



Modeling Chemistry Stoichiometry 2 Percent Yield Answers:

Adopting the Song of Expression: An Psychological Symphony within **Modeling Chemistry Stoichiometry 2 Percent Yield Answers**

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