

Limiting Reactants Practice



a) What is the limiting reactant if 0.866 mol of NO is mixed with 0.503 mol of O₂ to create NO₂?

$$0.866 \text{ mol NO} \times \frac{2 \text{ mol NO}_2}{2 \text{ mol NO}} = 0.866 \text{ mol NO}_2$$

limiting reactant product made

$$0.503 \text{ mol O}_2 \times \frac{2 \text{ mol NO}_2}{1 \text{ mol O}_2} = 1.006 \text{ mol NO}_2$$

b) Calculate the number of moles of NO₂ produced. (Answer should already be solved from the previous questions)

0.866 mol NO₂



a) If 7.40 g of O₃ reacts with 0.670 g of NO, which compound will be the limiting reactant?

O₃
O: 3 × 15.999 = 47.997 g/mol
⇒ 1 mol O₃ = 47.997 g O₃

$$7.40 \text{ g O}_3 \times \frac{1 \text{ mol O}_3}{47.997 \text{ g O}_3} \times \frac{1 \text{ mol NO}_2}{1 \text{ mol O}_3} \times \frac{46.005 \text{ g NO}_2}{1 \text{ mol NO}_2} = 7.093 \text{ g NO}_2$$

NO
N: 1 × 14.007 = 14.007
O: 1 × 15.999 = 15.999
⇒ 1 mol NO = 30.006 g/mol

$$0.670 \text{ g NO} \times \frac{1 \text{ mol NO}}{30.006 \text{ g NO}} \times \frac{1 \text{ mol NO}_2}{1 \text{ mol NO}} \times \frac{46.005 \text{ g NO}_2}{1 \text{ mol NO}_2} = 1.027 \text{ g NO}_2$$

limiting reactant product made

b) How many grams of NO₂ will be produced? (Answer should already be solved from the previous questions)

1.027 g NO₂

c) Calculate mass, in grams, of the excess reactant remaining at the end of the reaction. How many moles of excess reactant would this be?

$$0.670 \text{ g NO} \times \frac{1 \text{ mol NO}}{30.006 \text{ g NO}} \times \frac{1 \text{ mol O}_3}{1 \text{ mol NO}} \times \frac{47.997 \text{ g O}_3}{1 \text{ mol O}_3} = 1.072 \text{ g O}_3 \text{ used!}$$

$$\underbrace{7.40 \text{ g O}_3}_{\text{original}} - \underbrace{1.072 \text{ g O}_3}_{\text{used}} = \underline{6.328 \text{ g O}_3 \text{ leftover}}$$

Limiting Reactants Pogil Answer Key

D Keegan



Limiting Reactants Pogil Answer Key:

Limiting Reactant and Percent Yield, 2019 This lesson plan covers analyzing chemical reactions in order to determine limiting reactants and excess reactants including calculating the amount of excess reactant calculate the theoretical yield of a reaction and calculating the percent yield of a reaction

General Chemistry Key Concise Review Guide Sixth

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Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Limiting Reactants Pogil Answer Key**

In a world inundated with displays and the cacophony of instant connection, the profound energy and emotional resonance of verbal art usually fade into obscurity, eclipsed by the continuous assault of noise and distractions. However, nestled within the lyrical pages of **Limiting Reactants Pogil Answer Key**, a interesting function of fictional beauty that pulses with natural thoughts, lies an unique journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that enchanting opus courses readers on a mental odyssey, gently exposing the latent potential and profound affect stuck within the elaborate internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central subjects, dissect its charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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