

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?

$$0.866 \text{ mol NO} \times \frac{2 \text{ mol NO}_2}{2 \text{ mol NO}} = 0.866 \text{ mol NO}_2 \text{ (product made)}$$

limiting reactant

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

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

$$O: 3 \times 15.999 = 47.997 \text{ g/mol}$$

$$\Rightarrow 1 \text{ mol O}_3 = 47.997 \text{ g O}_3$$

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

NO

$$N: 1 \times 14.007 = 14.007$$

$$O: 1 \times 15.999 = 15.999$$

$$\Rightarrow 1 \text{ mol NO} = 30.006 \text{ g/mol}$$

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

limiting reactant

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

1.027 g NO₂

NO₂

$$N: 1 \times 14.007 = 14.007$$

$$O: 2 \times 15.999 = 31.998$$

$$\Rightarrow 1 \text{ mol NO}_2 = 46.005 \text{ g/mol}$$

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?

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

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

Limiting Reactants In A Recipe Answer Key

D Kirk

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