OMPTER (2) STUDY GUIDE FOR CONTENT MASTERS

#### Section 12.3 Limiting Reactants

In your textbook, must about any mactions stop and how to determine the Uniting reactions.

Study the diagram showing a chemical reaction and the should equation that represents the reaction. Then complete the table. Show your calculations for questions 25-27 in the space below the table.

$$\Box + 00 + Q \rightarrow Q + dS^2$$
  
 $0,+200 + 200,$ 

The media manus-of O<sub>2</sub>, NO, and NO<sub>2</sub> are X2.00 g/msl, 30.01 g/msl, and 46.01 g/msl, expectively.

Amount of Q	Annual of the	Amount of Sity	Similing Boochard	Amount and Rums of Queen Resident
1 molecule	Teolecies	2 molecules	none	none
4 milesies	Amiliosies	4 molecules	NO	2 mileoles 0 <sub>p</sub>
2 molecules	1 minutes	1, 4 molecules	2.02	1, 4 molecules NO
3.89 mol	2,00 mail	4. 2.00 mol	5. none	f. none
430 mol	4.50 mail	7, 4.00 mol	E. NO	9, 2.00 mol O <sub>2</sub>
3.00 mol	200 mail	94, 7:00 mol	11, NO	12, 1,50 mail 0 <sub>2</sub>
1.00 mol	400 mil	13. 2.00 mol	14. 02	15. 2.00 mol NO
1300 mail	1,200 mail	16, 0,200 mol	17, 100	18. 0.400 mol O <sub>2</sub>
12.00 g	mag	19. 92.02 g	20. none	21, none
26.00 g	mong	22, 46.01 g	20. 02	34. 50.12 g NO
reason at	20.00-9	25, 28.74 g	26. 02	27, 1,24 g NO

balanced equation mole ratio = 2 mol NO/1 mol O<sub>2</sub>

10.00 g.O; × 1 mol O,/32.00 g.O; = 0.3125 mol O, 20.00 g.MO × 1 mol NO/30.01 g.MO = 0.6664 mol NO

actual mole ratio = 0.6664 mol NQ/0.3125 mol O<sub>1</sub> = 2.132 mol NQ/1.000 mol O<sub>2</sub>

Because the actual mole ratio of NO:O<sub>2</sub> is larger than the balanced equation mole ratio of NO:O<sub>2</sub>, there is an excess of NO: O<sub>2</sub> is the limiting reactant.

Mass of NO used = 0.3125 gai-0; × 2 mol NO/1 gai-0; = 0.6250 mol NO 0.6250 gailNO × 30.01 g NO/1 gai-NO = 18.76 g NO

Mass of NO<sub>2</sub> produced = 0.6250 gpsi.WO<sub>2</sub> × 46.01 g NO<sub>2</sub>/1 gpsi.WO<sub>2</sub> = 28.76 g NO<sub>2</sub> Excess NO = 20.00 g NO - 18.76 g NO = 1.24 g NO

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#### Section 12.4 Percent Yield

In your textlisiol, resel about the pielos of products.

Study the diagram and the example problem.

mass of product from experimental measurement.

mais of product predicted from moditionietric calculation using

- at mass of reactions.
- 5. 4-dep main to main conversion
  - 1. Write the balanced chemical equation.
  - Calculate the number of moles of reactant, using molar mass.
  - Calculate the number of moles of product, using the appropriate mole ratio.
  - Calculate the mass of product, using the reciprocal of molar mass.

Example Problem: The following chemical equation represents the production of gullium origin, a substance word in the manufacturing of some semiconductor devices:

In one experiment, the reaction yielded 7.42 g of the enals from a 7.85 g sample of gallium. Describes the percent yield of this reaction. The molar masses of Ga and Ga<sub>2</sub>O<sub>2</sub> are 46.72 glossl and 167.46 glossl, respectively.

Use the information in the diagram and example problem to evaluate each value or expression below. If the value or expression is correct, write correct. If it is incorrect, write the correct value or expression.

- 1. actual right unknown 7.42 g Ga<sub>2</sub>O<sub>3</sub>
- 2. mass of touchast: Total y the connect.
- matter of excitor of reactant: 7.00 g/Gs × min/2 g/Gs.
   mol Gs.
   mol Gs.
   mol Gs.
   mol Gs.
   mol Gs.
- 4. number of moles of product 0.100 met  $G_0 \times \frac{2 \cdot met \cdot G_0 \cdot O_0}{1 \cdot met \cdot G_0} = \frac{4.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{4.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met} \frac{G_0 \times G_0}{G_0 \cdot O_0} = \frac{1.500 \cdot met}{2 \cdot met}$
- 5. theoretical yield. 0:0500 and  $O_{m_0}O_{\gamma} \times \frac{107.44 \pm O_{m_0}O_{\gamma}}{1 \text{ and } O_{m_0}O_{\gamma}}$  connect.
- percent yield: 9.17 g Ga<sub>2</sub>O<sub>3</sub> × 100
   7.42 g Ga<sub>2</sub>O<sub>3</sub>/9.37 g Ga<sub>2</sub>O<sub>3</sub> × 100
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Study Guide for Content Maters

# **Study Guide For Content Mastery Limiting Reactants**

**L Darling-Hammond** 

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Unveiling the Magic of Words: A Overview of "Study Guide For Content Mastery Limiting Reactants"

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