Limiting Reactants Practice KEY

 How many grams of aluminum chloride could be produced from 35.5 g of aluminum and 39.0 g of chlorine gas?

2AI + 3 Cl₂ ---- 2AICl₂

35.5 g Al X 1 mol Al X 3 mol Cl₂ X 70.906 g Cl₂ = 140. g Cl₂ 26.982 g Al 2 mol Al 1 mol Cl₂

This means 35.5 g Al would react with 140. g Cl₂

only 39.0 g Cl₂ were available, so it is the limiting reactant.

Use the mass of Cl₂ in the reaction to determine the mass of the AlCl₃ formed.

39.0 g Cl₂ = ? g AlCl₃

39.0 g Cl₂ X 1 mol Cl₂ X 2 mol AlCl₃ X 133.341 g AlCl₃ = 70.906 g Cl₂ X mol Cl₂ X 1 mol AlCl₂

Answer: 48.9 g AlCl₃

Identify the limiting reagent when 10.8 g water reacts with 4.7 g Na to produce NaOH and H₂.

To solve, set one reactant to the other and compare what is calculated to the actual amount in the reaction to determine the theoretical limiting reactant.

10.8 g H₂O = ____?__ g Na

Or

4.7 g Na = ____?__ g H₂O

2H₂O + 2 Na 2 NaOH + H₂

10.8 g H₂O X 1 mol H₂O X 2 mol Na X 22.990 g Na = 13.8 g Na 18.015g H₂O 2 mol H₂O 1 mol Na

This means that 10.8 g will react completely with 13.8 g Na, but only 4.7 g Na was available to this reaction. Therefore, Na is the limiting reactant in this problem.

Skill Practice 33 Limiting Reactants Answers

Ralph Thomas Myers

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