# Chapter 9

# Section 3 Limiting Reactants and Percentage Yield

# Percentage Yield

Sample Problem H Solution, continued

$$C_6H_6(I) + Cl_2(g) \rightarrow C_6H_5Cl(I) + HCl(g)$$

Theoretical yield

36.8 g 
$$C_6H_6 \times \frac{1 \text{ mol } C_6H_6}{78.12 \text{ g } C_6H_6} \times \frac{1 \text{ mol } C_6H_5CI}{1 \text{ mol } C_6H_6} \times \frac{112.56 \text{ g } C_6H_5CI}{1 \text{ mol } C_6H_6} \times \frac{112.56 \text{ g } C_6H_5CI}{1 \text{ mol } C_6H_5CI}$$

$$= 53.0 \text{ g } C_6H_6CI$$

# Percentage yield

percentage yield 
$$C_6H_5Cl = \frac{\text{actual yield}}{\text{theorectical yield}} \times 100$$

percentage yield = 
$$\frac{38.8 \text{ g}}{53.0 \text{ g}} \times 100 = \frac{73.2\%}{6}$$



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Resources

# **Section 3 Limiting Reactants And Percentage Yield**

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#### **Section 3 Limiting Reactants And Percentage Yield:**

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