

Lab 10: Calculations with a Chemical Structure

Objectives:

1. To derive an empirical formula from a chemical structure without performing stoichiometric calculations.
2. To calculate the number of moles of a solid from a weighing without using the molar mass.
3. To determine the molar mass of a solid.
4. To determine the stoichiometric amount of a solid reagent that would be produced.
5. To compare the theoretical amount to the actual amount of a solid reagent and calculate the percent yield.

Reagents and Materials:

Reagent 1: Solid 1 (Chemical Structure) 25.0 mol

Reagent 2: Solid 2 (Chemical Structure) 25.0 mol

Reagent 3: Solid 3 5.00 g

Reagent 4: Solid 4 5.00 g

Reagent 5: Solid 5 (Chemical Structure) 25.0 mol

Reagent 6: Solid 6 (Chemical Structure) 25.0 mol

Reagent 7: Solid 7 (Chemical Structure) 25.0 mol

Procedure:

Reagents and Calculations:

1. Calculations:

$$\text{Moles of reagent 1} = \frac{\text{Mass of reagent 1}}{\text{Molar mass of reagent 1}} = \frac{25.0 \text{ g}}{100.0 \text{ g/mol}} = 0.250 \text{ mol}$$

$$\text{Moles of reagent 2} = \frac{\text{Mass of reagent 2}}{\text{Molar mass of reagent 2}} = \frac{25.0 \text{ g}}{100.0 \text{ g/mol}} = 0.250 \text{ mol}$$

$$\text{Moles of reagent 3} = \frac{\text{Mass of reagent 3}}{\text{Molar mass of reagent 3}} = \frac{5.00 \text{ g}}{100.0 \text{ g/mol}} = 0.0500 \text{ mol}$$

$$\text{Moles of reagent 4} = \frac{\text{Mass of reagent 4}}{\text{Molar mass of reagent 4}} = \frac{5.00 \text{ g}}{100.0 \text{ g/mol}} = 0.0500 \text{ mol}$$

2. Chemical Equations: $\text{Reagent 1} + \text{Reagent 2} \rightarrow \text{Reagent 3} + \text{Reagent 4}$

3. Stoichiometry:

$$\text{Moles of reagent 1} = \text{Moles of reagent 2} = \text{Moles of reagent 3} = \text{Moles of reagent 4}$$

$$\text{Moles of reagent 1} = \text{Moles of reagent 2} = \text{Moles of reagent 3} = \text{Moles of reagent 4}$$

$$\text{Moles of reagent 1} = \text{Moles of reagent 2} = \text{Moles of reagent 3} = \text{Moles of reagent 4} = \text{Moles of reagent 5} = \text{Moles of reagent 6} = \text{Moles of reagent 7}$$

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor's generated low voltage

up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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