12: Stoichiometry

Key Stoichiometry Terms

- Stoichiometry: Using the mole ratio in the balanced equation and information about one compound to find information about another in the reaction.
- Dimensional Analysis: Method of converting units by multiplying by ratio of equalities.
- Motar Mass: Sum of all the atomic masses (from the periodic table) in the compound.
- Solute: Substance being dissolved in a homogeneous mixture (solution).
- Concentration: Measure of how much solute is dissolved in how much solution.
- Molarity (M): A concentration unit in moles per unit liter.
 Standard Temperature and Pressure (STP): 1 atm for
- Standard Temperature and Pressure (STP): 1 atm (or 101.3 kPa) and 273 K (0°).
- Molar volume of a Gas: 1 mole of any gas at STP is 22.4 liters.
- Limiting Reactant: Reactant that stops the reaction by running out first.
- · Actual Yield: The amount actually produced in the lab.
- Theoretical Yield: Amount that should be theoretically produced based on stoichiometric calculations.
- Percent Yield: Compares the actual yield to the theoretical yield (their ratio with %).

Chemical Equations

Coefficients give the mole ratios.

Example:

2 H₂ (g) + O₂ (g) - 2 H₂O (l) 2 moles of H₂ react with 1 mole of O₂ and produces 2 moles of H₂O.

Dimensional Analysis in Stoichiometry

Equalities used during dimensional analysis for stoichlometry:

- Mole ratio in balanced equation: Use to convert between moles of different compounds in the balanced equation.
- Molar mass: Used to convert between grams and moles.
- Concentration: Used to convert between moles and liters of a solution.
- Molar volume of a gast Used to convert between moles and liters of a gas at STP,

KUDOS for Stoichlometric Problems

Method to solve word problems:

- K = Known, Identify all the known information (given quantities, balanced equation, etc.).
- U = Unknown. What quantity and what compound does the problem ask for?
- D = Definition. Identify the equalities that will be needed during dimensional analysis to convert from the known to the unknown.
- O = Output. Perform the dimensional analysis.
- S = Substantiation. Check for reasonableness, units and correct significant figures.

Molarity

Molarity - the concentration measure by the moles of solute per liter of solution.

$$Mokerity = \frac{molex solute}{L solution}$$

Limiting Reactants

- Once a reactant has non out, the reaction will stop.
- Do stoichiometry for each given reactant quantity to the same product each time. Choose the calculation that gives the smallest amount of product.
- The reactant that produced the smallest amount of product is the limiting reactant.
- Steps to determine the limiting reactant: grams reactant ->
 moles reactant -> moles product -> grams product.
 Alternatively, use the mi/c method below.

Simple Limiting Reagent Finder Mnemonic: Find the moles of each reactant and divide the goles of each reactant by its co-efficient. The reactant with the smallest number is the limiting reagent = "Smallest m/c is Limited".

Percent Yield

fixamplet

If stoichio metry calculations tell you that a reaction should produce 10.5 g, but when you perform the lab you produce 5.7 g, what was the percent yield?

$$\% \text{ pick} f = \frac{8.7g}{10.5g} \times 100 = 82.9\%$$

Stoichiometry Examples

All examples for the following reaction: 2 HO (aq) + Mg (s) -> H₂ (q) + MgCl₂ (aq)

2 HO (84) + Mg (6) - H₂ (9) + MgO₂ (84)

Mole-Mass example:

CLASSINGHER PICTURE	STATE OF THE PARTY	SECRETARY PROPERTY.	A STATE OF THE PARTY OF THE PAR
0.75 male HGI	1. emoio Hig	24.31 a Ma	= 9.1 g M
	The second section is a second second	The Control of the Co	The second second second

Mass-Mass example:

If 2.5 g Mg react, how many grams MgCl; are produced?

2.5 g Mg	1 more	1 whole	95,21 g MgCb	
	24.31 g	1 motes	1 more MoCt.	= 9.8 g MgCl ₂

Mass-Liter example (solution):

How many liters of 1.7M HCl are needed to react with 2.5 g Mg?

2.59 99	I sweeten	2. mode.	1. L. HICK	- 0.12 L HCI
	24.31 g	1 emoker	1.7 mode Hetis	- 0.12 C HC
	example liters of H ₂		ed when 3.5	g Mg react?
3.5 g Hg	1 mole	1 mole	22,4 L	= 3.2 L Hs
	24.31 g	1 mole	1. modes	3 - C L Mg

Limiting reactants

If 0.25 mole HCI reacts with 0.55 mole Mg, how many grams of MgCl₂ are produced and what was the limiting reactant?

0.25 male HCI	1 mole Mack	95.21 g MgCl ₂	= 12 g
	2 male HCI	1 male MgGl _e	(less)
0.55 male Hg	1 mole MgCi,	95.21 g MeCh	= 52 o
	1 male Hg	1 mole MgCh	Mg Cl ₂

12 g MgCl₂ will be produced and HCl is the limiting reactant.

How to Use This Cheat Sheet: These are the keys related to this topic. Try to read through it carefully twice then write it out from memory on a blank sheet of paper. Review it again before the exams.

Chemistry Acs Exam Study Guide

Neil D. Jespersen, Pamela Kerrigan

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