

# Calculations in Analytical Chemistry

## The Mole

The mole is the SI unit for amount of substance. It corresponds to the amount of a chemical substance that contains the same number of particles present in 12 grams of C-12 which is equivalent to Avogadro's number, that is,  $N_A = 6.022 \times 10^{23}$ .

The molar mass is given as the mass of a compound in grams per mole of that substance. It is calculated by adding the molar masses of all the component elements in the compound. Take glucose for example:

Element	Molar mass per element	Number of atoms	Mass
C	12 g/mol	6	72 g/mol
H	1 g/mol	12	12 g/mol
O	16 g/mol	6	96 g/mol
Molar Mass			180 g/mol

## Mole and Millimole Calculations

The millimole is simply 1/1000 of a mole. It is sometimes used in calculations because of its convenience.

Example (Skoog, et al., 2014):

1. Find the number of moles and millimoles of benzoic acid (122.1 g/mol) that are contained in 2.00 g of pure acid.

If we use HBz to represent benzoic acid:

$$HBz_{mol} = 2.00 \text{ g}_{HBz} \times \frac{1 \text{ mol}_{HBz}}{122.1 \text{ g}_{HBz}} = 0.0164 \text{ mol}_{HBz}$$

To obtain the number of millimoles, the millimolar mass of benzoic acid will be used:

$$HBz_{mol} = 2.00 \text{ g}_{HBz} \times \frac{1 \text{ mmol}_{HBz}}{0.1221 \text{ g}_{HBz}} = 16.4 \text{ mmol}_{HBz}$$

2. What is the mass in grams of  $\text{Na}^+$  (22.99 g/mol) in 25.0 g of  $\text{Na}_2\text{SO}_4$  (142.0 g/mol)?

$$mass_{Na^+} = 25.0 \text{ g}_{Na_2SO_4} \times \frac{1 \text{ mol}_{Na_2SO_4}}{142.0 \text{ g}_{Na_2SO_4}} \times \frac{2 \text{ mol}_{Na^+}}{1 \text{ mol}_{Na_2SO_4}} \times \frac{22.99 \text{ g}_{Na^+}}{1 \text{ mol}_{Na^+}}$$

$$mass_{Na^+} = 8.10 \text{ g}_{Na^+}$$

# Manual Calculations Of Food Analytical Chemistry

**Albert Howard Low**



## **Manual Calculations Of Food Analytical Chemistry:**

**A Manual of Analytical Chemistry, Qualitative and Quantitative--inorganic and Organic** John Muter, 1887

*Handbook of Food Analysis - Two Volume Set* Leo M.L. Nollet, Fidel Toldra, 2015-06-10 Updated to reflect changes in the industry during the last ten years The Handbook of Food Analysis Third Edition covers the new analysis systems optimization of existing techniques and automation and miniaturization methods Under the editorial guidance of food science pioneer Leo M L Nollet and new editor Fidel Toldra the chapters take an in Nielsen's Food Analysis B. Pam Ismail, S. Suzanne Nielsen, 2024-06-24 This sixth edition provides information on techniques needed to analyze foods for chemical and physical properties The book is ideal for undergraduate courses in food analysis and it is also an invaluable reference for professionals in the food industry General information chapters on regulations labeling sampling and data handling provide background information for chapters on specific methods to determine chemical composition and characteristics physical properties and constituents of concern Methods of analysis cover information on the basic principles advantages limitations and applications The information on food analysis applications has been expanded in a number of chapters that cover basic analytical techniques Instructors who adopt the textbook can contact B Ismail for access to a website with related teaching materials

Analytical Chemistry Frederick Pearson Treadwell, 1904

**Introduction to the Theory of Algebraic Equations**

Leonard Eugene Dickson, 1903

*Technical Methods of Ore Analysis* Albert Howard Low, 1911

**Analytical Chemistry:**

**Qualitative analysis** Frederick Pearson Treadwell, William Thomas Hall, 1908

Food Analysis S. Suzanne

Nielsen, 2017-06-06 This fifth edition provides information on techniques needed to analyze foods for chemical and physical properties The book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry General information chapters on regulations labeling sampling and data handling provide background information for chapters on specific methods to determine chemical composition and characteristics physical properties and objectionable matter and constituents Methods of analysis covered include information on the basic principles advantages limitations and applications Sections on spectroscopy and chromatography along with chapters on techniques such as immunoassays thermal analysis and microscopy from the perspective of their use in food analysis have been expanded Instructors who adopt the textbook can contact the editor for access to a website with related teaching materials

Methods in Chemical Analysis, 1912 This antiquarian volume contains a complete manual of the art of angling for roach with comments on methodology equipment tactics and other information useful to the roach fisherman Written in simple plain language and including much in the way of practical instructions and useful tips and hints this text will prove invaluable to the roach fisherman and makes for a great addition to collections of angling literature The chapters of this book include The Roach Descriptive Statistical Roach Waters The Roach Fisherman Baits and Ground Baits Major Tactics and Major Considerations Methods and Styles Odds and Ends In Lighter Vein and Hempseed Fishing for Roach We are republishing this

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