

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:

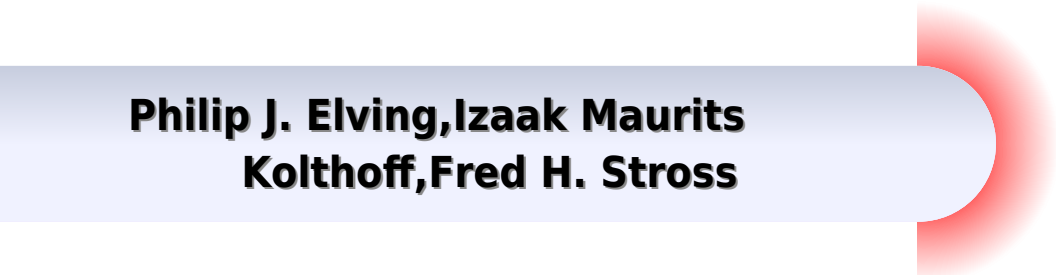
$$HBz_{mol} = 2.00 \text{ g}_{HBz} \times \frac{1 \text{ mmol}_{HBz}}{0.1221 \text{ g}_{HBz}} = 16.4 \text{ mmol}_{HBz}$$

2. What is the mass in grams of Na^+ (22.99 g/mol) in 25.0 g of Na_2SO_4 (142.0 g/mol)?

$$\begin{aligned} \text{mass}_{\text{Na}^+} &= 25.0 \text{ g}_{\text{Na}_2\text{SO}_4} \times \frac{1 \text{ mol}_{\text{Na}_2\text{SO}_4}}{142.0 \text{ g}_{\text{Na}_2\text{SO}_4}} \times \frac{2 \text{ mol}_{\text{Na}^+}}{1 \text{ mol}_{\text{Na}_2\text{SO}_4}} \times \frac{22.99 \text{ g}_{\text{Na}^+}}{1 \text{ mol}_{\text{Na}^+}} \\ \text{mass}_{\text{Na}^+} &= 8.10 \text{ g}_{\text{Na}^+} \end{aligned}$$

Analytical Chemistry 3

**Philip J. Elving, Izaak Maurits
Kolthoff, Fred H. Stross**



Analytical Chemistry 3:

Analytical Chemistry—3 P. Gh. Zugrăvescu, 2013-10-22 *Analytical Chemistry 3* provides information pertinent to the development of analytical chemistry This book discusses the significant role of analytical chemistry in the progress of the chemical industry Organized into nine chapters this book begins with an overview of the contribution of analytical chemistry in the development as well as in process control of the industrial chemistry This text then presents a brief history concerning the development of analytical chemistry in Romania Other chapters consider the general problem of utilizing gradients in chromatography This book discusses as well the developments in the determination of some common anions and describes the separation of anions of the same species The final chapter deals with the classification of enrichment methods according to the type of sample for which they are to be used This book is a valuable resource for chemists analytical chemists and pharmaceutical chemists Teachers scientists researchers and specialists in Romanian school of chemistry will also find this book useful *Chemometrics in Analytical Chemistry 3* 3. International conference on chemometrics in analytical chemistry, 1986 **Treatise on Analytical Chemistry**, 1967 **Analytical Chemistry** Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis *Analytical Chemistry* offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the Berri Lambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more *New Advances in Analytical Chemistry* Atta-ur Rahman, 2002-04-11 *New Advances in Analytical Chemistry Volume 3* presents recent developments in various spectroscopic techniques such as NMR spectroscopy and mass spectroscopy in the form of comprehensive reviews written by leading authorities in the field With new and updated information the book is invaluable to both research students and postdoctoral workers who wish to keep abreast of frontiers in analytical techniques Each chapter provides a broad overall account of recent developments so that the readers can stay current not only with the authors own contributions but also with contributions of other eminent scientists working in this area **New Advances in Analytical Chemistry, Volume 3** Atta-ur Rahman, 2002-04-11 *New Advances in Analytical Chemistry Volume 3* presents recent developments in various spectroscopic techniques such as NMR spectroscopy and mass spectroscopy in the form of comprehensive reviews written by leading authorities in the field With new and updated information the book is invaluable to both research students and postdoctoral workers w *Analytical Chemistry*, Presents information on *Analytical Chemistry* a semimonthly magazine published by the American Chemical Society Offers ordering information and a FAQ section Contains a sample issue and the table of contents for the current issue Highlights information for authors and subscription information **Treatise on Analytical Chemistry** Philip J. Elving, Izaak Maurits Kolthoff, Fred H. Stross, 1977 **Analytical**

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