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, NA=6.022X10^23.

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
С	12 g/mol	6	72 g/mol
н	1 g/mol	12	12g/m
0	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):

 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:

$$HBz_{mol} = 2.00 \frac{g_{HBz}}{g_{HBz}} \times \frac{1mol_{HBz}}{122.1 \frac{g_{HBz}}{g_{HBz}}} = 0.0164 mol_{HBz}$$

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

$$HBz_{mol} = 2.00 \frac{g_{HBz}}{g_{HBz}} \times \frac{1mmol_{HBz}}{0.1221 \frac{g_{HBz}}{g_{HBz}}} = 16.4mmol_{HBz}$$

What is the mass in grams of Na* (22.99 g/mol) in
 25.0 g of Na₂SO₄ (142.0 g/mol)?

$$\begin{aligned} mass_{Na^{+}} &= 25.0 \frac{g_{Na_{1}SO_{a}}}{142.0 \frac{g_{Na_{1}SO_{a}}}{142.0 \frac{g_{Na_{1}SO_{a}}}{1000}}} \times \frac{2 \frac{mol_{Na^{+}}}{1000l_{Na_{1}SO_{a}}}}{1 \frac{mol_{Na_{1}SO_{a}}}{1000l_{Na_{1}SO_{a}}}} \times \frac{22.99 \frac{g_{Na^{+}}}{1000l_{Na_{1}SO_{a}}}}{1 \frac{mol_{Na_{1}SO_{a}}}{1000l_{Na_{1}SO_{a}}}} \times \frac{22.99 \frac{g_{Na_{1}SO_{a}}}{1000l_{Na_{1}SO_{a}}}} \times \frac{22.99 \frac{g_$$

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Report Great Britain. Dept. of Science and Art,1869

Report of the Department of Science and Art of the Committee
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Fundamentals of Analytical Chemistry
Douglas A. Skoog,Donald M. West,F. James Holler,1992

Report. 3rd-30th Science and art department,1868

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Analytical Chemistry Calculation Questions And Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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