

Chapter 10 - Chemical Quantities

10.1 The Mole: A Measurement of Matter:

Mole: (Frank Green's videos)

- Unit of measurement

Representative Particles:

- Smallest unit of a substance (atom, molecule, formula unit, ions, anything...)
- Avogadro's number = 6.02×10^{23} representative particles (RP)
- 6.02×10^{23} representative particles = 1 mol

Molar Mass:

- Molar mass = g/mol
- Molar mass of:
 - an element = atomic mass (g)
Ex. 24.3 g/mol = molar mass of Mg
 - a compound = sum of the atomic masses (g) of each element
Ex. 58.44g/mol = molar mass of NaCl
- Molar mass = 1 mol

Molar Volume:

- Molar volume = 22.4 L/mol
- Standard temperature and pressure (STP) =
temp = 0°C
pressure = 1 atm
- 22.4 L = 1 mol (at STP)

Calculating Molar mass from Density:

- molar mass (g/mole) = density at STP (g/L) \times molar volume at STP (22.4L/mole)

$$\text{Molar mass (g/mol)} = \left(\frac{\text{grams}}{\text{L}} \right) \left(\frac{22.4 \text{ L}}{\text{mole}} \right)$$

Calculating Density from Molar mass:

- Density at STP (g/L) = molar mass (g/mole) \times molar volume at STP (1mole/22.4L)

$$\text{Density (g/L)} = \left(\frac{\text{grams}}{1 \text{ mole}} \right) \left(\frac{1 \text{ mole}}{22.4 \text{ L}} \right)$$

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Lecture Notes

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The Pharmaceutical Era ,1893 *Industrial & Engineering Chemistry* ,1929 *The Athenaeum* ,1907 **The Examiner** ,1840 *Engineering* ,1925 *The Medical Times and Gazette* ,1843 *The Illustrated London News* ,1862

The Mining Journal, Railway and Commercial Gazette ,1902 *Journal of Education* ,1888 **English Mechanic and Mirror of Science** ,1877 **The London Literary Gazette and Journal of Belles Lettres, Arts, Sciences, Etc** ,1828 **Physics Briefs** ,1994 **The Agricultural Gazette and Modern Farming** ,1904 *The Gardeners' Chronicle and Agricultural Gazette* ,1852 *Library Journal* Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 1965 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Issued also separately **Examiner** ,1844 *The Athenæum* ,1845 *Gardeners' Chronicle* ,1845 **Chemical Engineering Catalog** ,1925 *Athenaeum and Literary Chronicle* James Silk Buckingham, John Sterling, Frederick Denison Maurice, Henry Stebbing, Charles Wentworth Dilke, Thomas Kibble Hervey, William Hepworth Dixon, Norman Maccoll, Vernon Horace Rendall, John Middleton Murry, 1835

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