

Counting by Measuring Mass

In chemistry, the particles (atoms, molecules, and ions) that react in chemical changes are extremely small, such that we need appropriate units to conveniently describe them. For example, a tablespoon of water contains approximately 602,000,000,000,000,000,000 (602 sextillion) water molecules, give or take a few hundred quintillion. This is also known as 1 mole of water. 1 mole of any substance contains 6.022×10^{23} particles of that substance. If the substance is an element, then it contains 6.022×10^{23} atoms; if the substance is a molecular compound, then it contains 6.022×10^{23} molecules; if the substance is an ionic compound, then it contains 6.022×10^{23} formula units (the lowest ratio of ions that balance). This number is known as Avogadro's constant, named after the Italian scientist Amadeo Avogadro di Quaregna, Count of Turin (1776-1856), who helped distinguish molecules from atoms in gases. The Avogadro constant is defined as the amount of carbon-12 atoms in exactly 12 grams of carbon 12. Moles of a substance are a more convenient unit of count to work with than individual particles, similar to how it is more convenient to sell and purchase paper by the ream (500 sheets) instead by individual sheets of paper.

Since the particles are so small, directly measuring the mass of an individual atom is impossible, but measuring the mass by the mole is much more practical. The mass of an average oxygen atom is 2.66×10^{-23} grams, but the mass of 1 mole of oxygen atoms is 15.999 grams. This can be obtained from the periodic table, and it also represents the mass of an individual atom in atomic mass units (amu). So as obtained from the periodic table, the number 14.007 underneath the symbol for nitrogen (N) means that the mass of the average nitrogen atom is 14.007 amu, and the mass of 1 mole of nitrogen atoms is 14.007 grams, containing 6.022×10^{23} atoms of nitrogen. Therefore, using the atomic mass as a ratio, it is possible to determine the amount of nitrogen atoms in a given mass of nitrogen.

In this lab, you will determine the mass of several substances and use the data to count the number of atoms of each element in the substance.

EQ: How can mass be used to count the number of atoms in a substance?

Data Table

Part A	Al (s)	H ₂ O (l)	NaHCO ₃ (s)	C ₆ H ₁₂ O ₆ (s)
Mass (g)	4.123 grams	5.553 grams	4.616 grams	7.941 grams
Molar Mass (g/mol)	26.982 grams	18.015 grams	84.007 grams	180.16 grams
Moles of Each Substance	0.153 grams	0.308 grams	0.055 grams	0.044 grams
Number of Representative Particles	3.519×10 atoms	7.084×10 atoms	1.265×10 atoms	1.014×10 atoms
Moles of Each Element	0.153	H = .616 O = .308	Na = 0.055 H = 0.055 C = 0.055 O = 0.165	C = 0.264 H = 0.528 O = 0.264
Atoms of Each Element	3.519	H = 14.168 O = 7.084	Na = 1.265 H = 1.265 C = 1.265 O = 3.795	C = 6.084 H = 12.168 O = 6.084

Answer Key Small Scale Lab

Karen K. Gleason



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Innovative Technology-based Solutions for Primary, Secondary and Tertiary STEM Education Cristina Hava Muntean, Diana Bogusevschi, Gabriel-Miro Muntean, 2019-09-23 This book presents innovative technology enhanced learning solutions for STEM education proposed by the EU Horizon 2020 funded NEWTON project by first highlighting the benefits and limitations of existing research work e learning systems and case studies that embedded technology in the teaching and learning process NEWTON s proposed innovative technologies and pedagogies include adaptive multimedia and multiple sensorial media virtual reality fabrication and virtual labs gamification personalisation game based learning and self directed learning pedagogies The main objectives are to encourage STEM education among younger generations and to attract students to STEM subjects making these subjects more appealing and interesting Real life deployment of NEWTON technologies and developed educational materials in over 20 European educational institutions at primary secondary and tertiary levels demonstrated statistical significant increases in terms of learner satisfaction learner motivation and knowledge acquisition New perspectives and emerging directions in predator-prey functional response research: Hommage to C.S. Holling (1930- 2019) Thomas John Hossie, Dennis Murray, 2023-07-26 The Shock and Vibration Digest, 1979 Technology Valuation Solutions F. Peter Boer, 2004-09-23 A better way to value the profitability and risk of R D projects New technology and R D initiatives affect companies in both the service and manufacturing sector It s estimated that half a trillion dollars is spent worldwide each year on such efforts Technology Valuation Solutions website offers a methodology along with illustrative cases for valuing the profitability and risk of R D projects A companion to Boer s earlier work *The Valuation of Technology* 978 0 471 31638 1 this book provides additional material that will help readers assess a wide variety of projects and business scenarios In addition to the in depth case studies this book includes a website featuring valuation templates that readers can customize for their own individual needs *Advanced Fluoride-Based Materials for Energy Conversion* Tsuyoshi Nakajima, Henri Groult, 2015-04-30 *Advanced Fluoride Based Materials for Energy Conversion* provides thorough and applied information on new fluorinated materials for chemical energy devices exploring the electrochemical properties and behavior of fluorinated materials in lithium ion and sodium ion batteries fluoropolymers in fuel cells and fluorinated carbon in capacitors while also exploring synthesis applications and both safety and stability issues As electronic devices from cell phones to hybrid and electric vehicles are increasingly common and prevalent in modern lives and require dependable stable chemical energy devices with high level functions are becoming increasingly important As research and development in this area progresses rapidly fluorine compounds play a critical role in this rapid progression Fluorine with its small size and the highest electronegativity yields stable compounds under various conditions for utilization as electrodes electrolytes and membranes in energy devices The book is an ideal reference for the chemist researcher technician or academic presenting valuable current insights into the synthesis of fluorine compounds and fluorination

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