



Atomic Mass of Cadmium (Cd)

Objectives: To isolate the "isotopes" of Cadmium and calculate its atomic mass.

Materials: - Sample of Cadmium (in a baggie)

- a balance

- a calculator

Introduction:

As we now know, Dalton's idea that all atoms of one element were identical is actually incorrect. A sample of any element is a mixture of its various isotopes. Some concepts we will be investigating include how the **average atomic mass** of an element relates to the **atomic mass** and **relative abundance** of its isotopes. As each element is comprised of different isotopes, your sample of cadmium is comprised of different cadmium with different masses. Each type of cadmy represents a different isotope of cadmium.

Pre-Lab Questions:

1. What are isotopes?
2. Define average atomic mass and relative abundance in two complete sentences.

Procedure:

1. Obtain a sample of cadmium that contains three different brands of cadmy. Treat each brand of cadmy as an isotope of cadmium.
2. On a piece of paper towel, separate the three isotopes into groups labeled A, B and C, and measure the total mass of each isotope. Record the masses of each isotope in the **Total Mass** row of the data table.
3. Count the number of atoms in each sample. Record the number in the **numbers** row.
4. Follow the calculations described below to understand how to fill out the remainder of the data table.

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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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