

Basic agricultural chemistry

Introduction to basic chemistry

1 Important terminology

Chemistry is the study of the properties, composition and structure of matter, the changes that occur in matter, and the energy that is released during these changes.

1.1 Matter

This section defines and explains fundamental concepts in chemistry that apply to all matter or materials.

- The smallest part of matter is an atom. Atoms combine to make up elements, whereas elements make up molecules, and molecules make up compounds. These are all pure substances of matter.
- Objects contain an amount of matter called its mass. The weight of an object is measured by the force with which that object (of a certain mass) is attracted towards the centre of the earth. Although mass and weight are often used interchangeably, their meaning is different: mass is a quantity of matter, and weight is a force.
- All matter can be described by a set of characteristics or properties that are unique to it. Intrinsic properties are properties that are common to all samples of the same kind of matter.
 - A particular material can be made up of various constituents (parts).
 - The way that these are arranged constituents is called the composition of the material.
 - The composition of a material shows its structure.
 - We need knowledge of the way in which the constituents are arranged, or the structure of the material, to understand how the material will behave and possibly how to change a particular property.
- Elements are structural units of matter that cannot be broken down using chemical methods.
 - Elements are pure substances made up of atoms.
 - Atoms consist of electrons, neutrons and protons. Examples: carbon (C), oxygen (O), hydrogen (H), chlorine (Cl).
 - They adhere to themselves or other elements by chemical bonding to form molecules.
 - This bonding process will result in the formation of new pure substances.
- Molecules can be broken down chemically into the elements they are composed of. Examples: carbon dioxide (CO_2), water (H_2O).
 - They can take part in chemical reactions with other molecules by interactions between their atoms.
 - Atoms contained in molecules can react chemically to form compounds.
 - A pure compound can be broken down or be decomposed to two or more pure substances only by chemical means.

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Fermentation and Algal Biotechnologies for the Food, Beverage and Other Bioproduct Industries James Chukwuma Ogbonna,Sylvia Uzochukwu,Emeka Godfrey Nwoba,Charles Oluwaseun Adetunji,Nwadiuto (Diuto) Esiobu,Abdulrazak B. Ibrahim,Benjamin Ewa Ubi,2022-05-10 This book covers a range of important topics on dairy and fermented foods and microalgae biotechnologies for food beverage and bioproduct industries The topics range from traditionally fermented African foods fermentation technologies for large scale industrial enzyme production to microalgae cultivation and nutraceuticals in Africa etc The editors provide detailed information on approaches towards harnessing indigenous bioresources for food and nutrition security climate change adaptation industrial enzyme production environmental remediation and healthcare delivery The book will be useful reference material for scientists and researchers working in the field of dairy and food biotechnology fermentation technology enzyme biotechnology algal biotechnology and cultivation systems biofuels and other bioproducts from algal biomass and underutilized and novel African food sources Emphasizes recent advances in biotechnologies that could ameliorate the high level global food insecurity through fermentation technologies applicable to traditional African indigenous and underutilized novel foods algal biotechnology and value added bioproducts Provides detailed information on how to harness indigenous bioresources including microalgae for food and nutrition security climate change adaptation industrial enzyme production environmental remediation and healthcare delivery Introduces new frontiers in the area of large scale enzyme production using fermentation biotechnologies and their applications in the food and beverage industries Discusses current biotechnologies applicable in the food beverage and bioproduct industries James Chukwuma Ogbonna Ph D is a Professor of Microbiology and Biotechnology and Director National Biotechnology Development Agency South East Zonal Biotechnology Centre University of Nigeria Nsukka Nigeria Sylvia Uzochukwu Ph D is a Professor of Food Science and Biotechnology and Director Biotechnology Centre Federal

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Table of Contents 2014agricultural Science Paper1 Grade11

1. Understanding the eBook 2014agricultural Science Paper1 Grade11
 - The Rise of Digital Reading 2014agricultural Science Paper1 Grade11
 - Advantages of eBooks Over Traditional Books
2. Identifying 2014agricultural Science Paper1 Grade11
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2014agricultural Science Paper1 Grade11
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2014agricultural Science Paper1 Grade11
 - Personalized Recommendations
 - 2014agricultural Science Paper1 Grade11 User Reviews and Ratings
 - 2014agricultural Science Paper1 Grade11 and Bestseller Lists

5. Accessing 2014agricultural Science Paper1 Grade11 Free and Paid eBooks
 - 2014agricultural Science Paper1 Grade11 Public Domain eBooks
 - 2014agricultural Science Paper1 Grade11 eBook Subscription Services
 - 2014agricultural Science Paper1 Grade11 Budget-Friendly Options
6. Navigating 2014agricultural Science Paper1 Grade11 eBook Formats
 - ePub, PDF, MOBI, and More
 - 2014agricultural Science Paper1 Grade11 Compatibility with Devices
 - 2014agricultural Science Paper1 Grade11 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2014agricultural Science Paper1 Grade11
 - Highlighting and Note-Taking 2014agricultural Science Paper1 Grade11
 - Interactive Elements 2014agricultural Science Paper1 Grade11
8. Staying Engaged with 2014agricultural Science Paper1 Grade11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2014agricultural Science Paper1 Grade11
9. Balancing eBooks and Physical Books 2014agricultural Science Paper1 Grade11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2014agricultural Science Paper1 Grade11
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2014agricultural Science Paper1 Grade11
 - Setting Reading Goals 2014agricultural Science Paper1 Grade11
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2014agricultural Science Paper1 Grade11
 - Fact-Checking eBook Content of 2014agricultural Science Paper1 Grade11
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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