

GENERAL INORGANIC CHEMISTRY

Study of Matter

A. Classification of Matter

1. Pure Substance

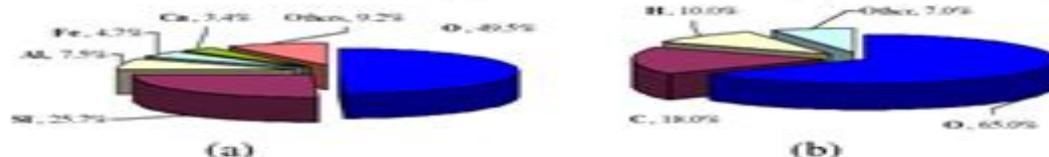
- form of matter that has distinct composition and properties

a. Elements

- Substance composed of one kind of atom and cannot be decomposed into simpler substances
- There are 118 known elements of which 91 elements exist in the Earth in macroscopic or trace quantities, 3 elements (Tc, Pm and Np) exist as a result of rare decay of heavy elements and 24 elements (Am to Uuo) are synthetically prepared

b. Compounds

- Substance formed when elements interact with other elements
- A pure compound is made up of the elements in the same proportion by mass – Law of Definite Proportions by Joseph Louis Proust (1754-1826)
- Abundance of the elements in (a) earth's crust and (b) human body



2. Mixture

- form of matter that consists of different substances and whose composition varies

a. Heterogeneous mixture – mixture that does not have uniform composition, properties and appearance

b. Homogeneous mixture – mixture that is uniform throughout

B. Properties of Matter

1. **Physical properties** – observed without changing the identity and composition of the substance
2. **Chemical properties** – observed when a substance react to form other substances
3. **Intensive properties** – properties independent of the amount of substance present such as melting point, density, temperature, etc.
4. **Extensive properties** – properties dependent of the amount of substance present such as mass and volume

C. Changes in Matter

1. **Physical change** – changes that does not result to formation of new substances
2. **Chemical change** – changes that result to formation of new substances

Atomic Theory

A. Dalton's Atomic Theory

- Proposed by John Dalton (1766-1844)

Inorganic Chemistry Study Guide

Minjie Lin



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Inorganic Chemistry Study Guide**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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