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sections 3 3 through 3 5 discuss some of the different possibilities for compounds it is important to understand the 2 major types of compounds ionic and covalent before learning how to name compounds the naming of compounds is covered in section 3 6

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a compound is a substance that contains two or more elements chemically combined in a fixed proportion the elements carbon and hydrogen combine to form many different compounds one of the simplest is called methane in which there are always four times as many hydrogen particles as carbon particles

# what is an element in chemistry definition and examples Oct 26 2023

in chemistry an element is defined as a pure substance composed of atoms that all have the same number of protons in the atomic nucleus in other words all atoms of an element have the same atomic number the atoms of an element sometimes called chemical element cannot be broken into smaller particles by any chemical means

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elements and compounds an element is a substance that cannot be broken down into a simpler format they are distinguished by a unique atomic number the elements are organized by their atomic number in the periodic table which highlights elements with similar properties water is an example of a compound a mixture of two or more elements

# compound vs element difference and comparison diffen Feb 15 2023

the difference between an element and a compound is that an element is a substance made of same type of atoms whereas a compound is made of different elements in definite proportions examples of elements include iron copper hydrogen and oxygen examples of compounds include water h 2 o and salt sodium chloride nacl

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# chemical element definition origins distribution facts Dec 16 2022

chemical element any substance that cannot be decomposed into simpler substances by ordinary chemical processes

# 5 3 a closer look at elements and compounds chemistry Nov 14 2022

classify substances as atomic elements molecular elements molecular compounds or ionic compounds atomic elements most elements exist with individual atoms as their basic unit it is assumed that there is only one atom in a formula if there is no numerical subscript to the right of a chemical symbol molecular elements

# 3 4 elements and compounds chemistry libretexts *Oct 14 2022*

3 4 elements and compounds page id table of contents introduction elements explore more compounds summary contributors introduction

# elements compounds and mixtures division of chemical Sep 12 2022

elements combine to form chemical compounds that are often divided into two categories metals often react with nonmetals to form ionic compounds these compounds are composed of positive and negative ions formed by adding or subtracting electrons from neutral atoms and molecules

# elements compounds mixtures purdue university Aug 12 2022

mixtures microscopic view of a gaseous mixture containing two elements argon and nitrogen and a compound water note that a mixture consists of two or more different elements and or compounds physically intermingled can be separated into its components by physical means and often retains many of the properties of its components

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