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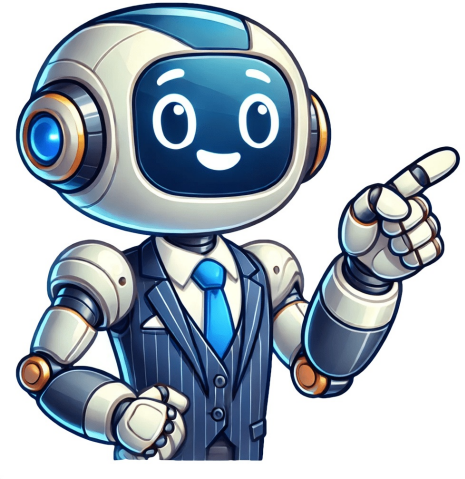


Tabla periódica completa con valencias

The Periodic Table is a fundamental tool in chemistry that organizes known elements in a systematic way. Created by Dmitri Mendeléev in 1869, it has since been the foundation for understanding the structure of matter and the properties of elements. The structure of the Periodic Table consists of horizontal rows called periods and vertical columns called groups. Each element is represented by its chemical symbol and atomic number, which indicates the number of protons in its nucleus. The table also divides into blocks based on the electronic configuration of the elements. The groups in the Periodic Table are the vertical columns that range from 1 to 18. Each group shares similar characteristics regarding chemical behavior and properties among its members. The text then presents a table of valences for various elements, organized by groups such as Alkaline Earths, Halogens, Carbonoideos, Nitrogenoideos, Boroideos, and Transition Elements. The table shows the oxidation states or valences of each element, with some elements having multiple valences. The text also discusses the importance of the Periodic Table in understanding the structure of matter and the properties of elements, and how it has been a foundation for scientific research and discovery. Some of the most important groups are analyzed next: This group consists of elements such as lithium, sodium, and potassium. They are highly reactive, soft, and have low density. They have only one electron in their valence shell and tend to lose it to form positive ions. Group 17: Halogens The halogens, including elements like fluorine, chlorine, and iodine, are highly reactive and typically form ionic compounds with alkali metals. They have seven electrons in their valence shell and tend to gain one electron to achieve a stable configuration. Names and valences of some elements Now we'll explore specific elements on the periodic table and their corresponding names and valences: Oxygen Oxygen is a non-metallic element present in the air we breathe. It has a valency of -2 and forms compounds with other elements, such as water (H2O) and carbon dioxide (CO2). Calcium Calcium is an alkaline earth metal used in the construction of bones and teeth. It has a valency of +2 and forms compounds with oxygen, like calcium carbonate (CaCO3), found in seashells. Iron Iron is a ductile and malleable metal widely used in industry. It has variable valence, being either +2 or +3 depending on the compound it's part of. How many elements are there in the periodic table? In the current version of the periodic table, 118 chemical elements have been confirmed. What is the heaviest element on the periodic table? The heaviest element on the periodic table is oganesson (Og), with an atomic number of 118. This element was first synthesized in 2002 and is highly unstable. Why are valences important in chemistry? Element valences are important because they determine how elements combine to form compounds. Knowing valences allows us to predict the type of bond that will form between two elements and how they'll behave in chemical reactions. Are there elements without valences? No, all elements have a determined valence, although it may be variable in some cases. How are valences used to name chemical compounds? Element valences are used to write the chemical formulas of compounds. It's necessary to balance ionic charges to maintain electrical neutrality. Can we predict an element's valence just by looking at its position on the periodic table? In general, yes, it is possible to predict an element's valence based on its position on the periodic table. However, there are exceptions and special cases that require a deeper study of the elements' properties. What is the most abundant element in the universe, making up approximately 75% of the total mass. La tabla periódica es una herramienta fundamental en el estudio de la química que presenta a los elementos químicos de manera sistemática, mostrando información sobre sus propiedades y relaciones. Metálicos y no metales tienen propiedades diferentes Los metálicos son maleables y dúctiles, mientras que los no metales son opacos y frágiles. Los metaloides tienen propiedades intermedias entre los metales y los no metales. Elementos representativos y de transición se encuentran en la tabla periódica Los elementos se dividen en representativos y de transición, que se encuentran en grupos 1, 2 y 13-18, respectivamente. Los elementos de transición se encuentran en grupos de transición en el centro de la tabla periódica. Nombres y símbolos de los elementos Los elementos se nombran según ciertas reglas establecidas, y muchos tienen nombres en inglés o latinos. Los elementos también se representan mediante símbolos químicos, que son abreviaturas de una o dos letras. Símbolos más comunes en la tabla periódica Algunos símbolos químicos son más comunes y ampliamente utilizados, como HO (hidrógeno), ON (oxígeno), N (nitrogénico) y C (carbono). Valencia de los elementos La valencia es la capacidad de un elemento para combinarse con otros elementos y formar compuestos. Se determina por la cantidad de electrones que un átomo puede ganar, perder o compartir durante una reacción química. Determinación de la valencia de un elemento La valencia de un elemento se determina principalmente por su configuración electrónica, que es la distribución de electrones en los diferentes niveles y subniveles de energía de un átomo. Valencias más comunes de los elementos Algunos elementos tienen valencias más comunes que otros, como el hidrógeno con una valencia de 1, el oxígeno con una valencia de 2 y el nitrógeno con una valencia de 3. The periodic table is divided into different groups and families, each with unique properties and characteristics. The alkali metals (Group 1) are highly reactive elements that include lithium, sodium, and potassium. Alkaline earth metals (Group 2) are less reactive than alkali metals and have a valence of 2. Examples include calcium, magnesium, and beryllium. The boron group (Group 13) includes elements like boron and aluminum, with a valence of 3. The carbon group (Group 14) features elements like carbon and silicon, with a valence of 4. The nitrogen group (Group 15) includes elements like nitrogen and phosphorus, with a valence of 3 or 5. The oxygen group (Group 16) consists of elements like oxygen and sulfur, with a valence of 2 or 4. The halogens (Group 17) are highly reactive elements that include fluorine, chlorine, and iodine. Noble gases (Group 18) are stable elements that have a valence of 0. Examples include helium, neon, and argon. Transition elements, found in the center of the periodic table, have varying valences and chemical properties. Examples include iron, copper, and zinc. Lanthanides and actinides, located at the bottom of the table, also have variable valences and unique chemical properties. Examples include cerium, uranium, and plutonium. Some common questions about the periodic table are: * What are the most common elements in the periodic table? The answer is hydrogen, oxygen, carbon, and nitrogen, which form the basis of organic chemistry and are essential for life. * What is an isotope? An isotope is a variant of an element that has the same number of protons but a different number of neutrons. Isotopes have similar chemical properties but may have different atomic masses. * How do elements get classified in the periodic table? Elements are categorized into groups and periods. Groups represent columns, while periods represent rows. Elements in the same group have similar chemical properties, while elements in the same period have the same number of electron shells. Finally, what is the heaviest element on the periodic table? It is oganesson (Og), with an atomic number of 118. This synthetic element was discovered in 2002 and is extremely rare. La tabla periódica es un recurso fundamental para la comprensión de la química. Aprender sobre su estructura, nomenclatura y propiedades de los elementos nos permite tener una visión más clara de sus relaciones y propiedades, además de ayudarnos a predecir su comportamiento y comprender su papel en diversas disciplinas.

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