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## How many outer electrons does neon have

Check the chalkboard. The box on the left displays everything you need to know about a single element. It shows the mass of one atom, the number of pieces inside, and where it should be placed in the periodic table. The next section covers electronic orbits or electronic shells. This could be a new topic. See the photo below for the electrons in the shell. Each of these colored balls is electronic. In atoms, electrons rotate around the center, also known as the nucleus. Electrons like to enter separate shells/orbits. Shell number one can hold only two electrons, shell 2 holds only 8, and the first 18 element shells 3 can hold up to 8 electrons. If you learn about elements with more than 18 electrons, you will see that shell 3 can hold 8 or more. When one shell is full, the next electron to be added must be moved to the next shell. So... For neon elements, we already know that atomic numbers tell us the number of electrons. In other words, neon atoms have 10 electrons. If you look at the photo, you can see that there are 2 electrons in shell 1 and 8 electrons in shell 2. Shell 2 has 8 electrons, so it is now full. Hey! Neon (ne) is the second of your gas. Like all noble gases, it is very non-reactive. So much, it doesn't form any compound. Just like helium (He) or Argon (Ar), neon floats alone. There is no resynthesis because the shell is full. Neon has two atomic shells, so you need two electrons to fill the first and eighth electrons. Neon has 10 electrons meaning two filled shells. Chemical elements with atomic number 10 This article is about chemical elements. For more uses, see Neon (Avoid ambiguity). The chemical elements of atomic numbers 10Neon, 10NeNeon10NeOn are standard atomic weight Ar, std(Ne) 20.1797(6)[1] periodic table hydrogen helium beryllium hydrogen lithium beryllium nitrogen oxygen fluorum, which is a colorless colorless gas that shows an orange-red glow when placed in an electric field. Olin neon neon sodium magnesium aluminum silicon sulfur chlorine argon potassium calcium vanadium titanium vanadium chromium manga nickel cobalt nickel copper zinc gallium gel manium arsenic serenium serenobromine krypton rubidium strontium yttrium zirconium niobium molybdeneium ruthenium palladium silver cadmium indium tin monterugliam io Gin xenon senium barium lanternum cerium praseodymium neodymium promethium samarium europium gadolinium terbium terbium dysprosium fornium erbium terrium ytterbium lutetium hafnium tantalum tungsten len Osium Iridium Platinum Venus Mercury (Element) Thallium Reed Bismuth Polonium Astatin Radon Francium Radium Radium Actinium Trium Protactinium Uranium Neptune Plutonium Plutonium Amerinium Curium Belkerium Californium Awanesium FermiumNobel Lorium Laurencium Lazarusodium Dubnium Seaborgium Boffium Hassium Mithium Dalmstam Rengetium Copernicium Nihonium Frelovium Mosium Ribamorium Tenesin Oganeson Henne al-Furolin → Neon → Sodium Atomic Number (Z) 1 0Group18 (noble gas) period 2 block block element category Noble gas electronic configuration [He] 2s2 2p6 electrons/shell 2, 8 physical properties STPgas melting point 24.56 K (-248.59°C, -415.46 °F) Boiling point 27.104 K (-246.046 °C, -410.883 °F) Density (at STP) 0.9002 g/Lwhen liquid (b.p.) 1.207 g/cm3[2] Triple points 24.556 K, 43.37 kPa[3][4] critical points 44.4918 K, 2.7686 MPa[4] melting heat 0.335 kJ / molar heat 1.71 kJ / mormol heat capacity 20.79 [5] J[5] J[5] J[5]. K) Vapor pressure P (Pa) 1 10 100 1 k 1 k 10 k 10 k 10 k 100 k at T (K) 12 13 15 18 21 27 Atomic properties Oxidation state Ionization energies1st: 2080.7 kJ/mol 2nd: 3952. 3 kJ/mol 3rd: 6122 kJ/mol (detailed) Shared radius 58 pm Van der Waals Radius 18 pm neon Other properties spectral line spontaneous primoreal crystal structural center cube (fcc) sound speed 435 m/s (gas, 0 °C) Thermal conductivity 49.1×10-3 W/(m·K) magnetic body[6] Magnetic susceptibility -6.74-10-6 cm3/mole (298 K)[7]Bulk modulus 654 GPa number CAS7440-01-9 Historical prediction William Ramsay (6) 1897 Discovery and initial isolation William Ramsay & Morris Travers[8][9][1898] Neon ethnext abundance half-life (1/2) Decay mode products 20Ne 90.48% stable 21Ne 0.27% stable 22Ne 9.25% stable category : Neon View Stalker It | It is a noble gas. Neon is an inert single-atom gas that is colorless and odorless under standard conditions, and the density of air is about two-thirds. It was discovered in 1898 (along with krypton and xenon) as one of three remaining inert elements remaining in dry air after nitrogen, oxygen, argon and carbon dioxide were removed. Neon is the second of these three noble gases discovered and was soon recognized as a new element from its bright red emission spectrum. The name neon comes from the Greek word τ, neutralize single τ (neos), a new meaning. Neon is chemically inert, and uncharted neon compounds are not known. The neon compounds currently known include molecules held together by ionic molecules, van der Waals forces and class rates. During the cosmic nucleation of elements, a large amount of neon accumulates from the alpha-trapping fusion process of the star. Neon is a very common element in the universe and solar system (the universe's abundance is fifth after hydrogen, helium, oxygen and carbon), but it is rare on Earth. It constitutes about 18.2 ppm of air by volume (this is about the same as the same or mole percentage) and a small percentage of the Earth's crust. The relative rarity of neon on Earth and the reason for the inner (Earth) planet is that neon is highly volatile and does not form compounds that fix it to solids. As a result, they escaped from the planet under the warmth of the newly ignited sun in the early solar system. Even Jupiter's outside air is somey depleted of neon, but for different reasons. [11] Neon, when used in low voltage neon glow lamps, high pressure discharge tubes and neon advertising signs, gives a clear red-orange glow. [12] Red radiation from neon also causes the well-known red light of helium neon lasers. Neon is used in several plasma tubing and refrigerant applications, but few other commercial applications. It is extracted commercially by minute distillation of liquid air. Since air is the only source, it is considerably more expensive than helium. The historical neon gas discharge lamp, which forms a neon neon symbol, was discovered in London in 1898 by British chemists Sir William Ramsay (1852-1916) and Morris W. Travers (1872-1961). The neon was discovered when Ramsay cooled a sample of air until it became a liquid, warmed the liquid and took in boiling gas. Nitrogen, oxygen and argon gases were identified, but the remaining gases were separated in order of almost their abundance between the end of May 1898 and six weeks. First identified was Krypton. Then, after krypton was removed, it was a gas that gave a bright red light under the light-of-minute discharge. The gas, identified in June, was named Neon, a Greek analogue of the Latin nonam ('new') suggested by Ramsay's son. The characteristic bright red-orange color dinged from the gas neon when electrically excited was immediately noticed. Travers later wrote: The crimson flame of light from the tube was a sight that told its own story and lived and will never forget. The second gas was also reported along with neon and has about the same density as neon, but with a different spectrum - Ramsay and Travers named it Metalgon. [17] However, subsequent minute analysis revealed argon contaminated with carbon monoxide. Finally, the same team discovered xenon in the same process, in September 1898. The rarity of air eliminated rapid applications for lighting along the lines of Moor pipes that used nitrogen and were produced in the early 1900s. Since 1902, Georges Claude's company Air Liquide has produced an industrial number of neons as a by-product of its air liquefaction business. In December 1910, Claude demonstrated modern neon lighting based on neon sealed tubes. Claude, due to its strength, tried to sell neon tubes for indoor domestic lighting with easy, but the market failed because homeowners objected[1912. Claude associates began selling neon discharge tubes as eye-watering advertising signs, an instant success. Neon tubes were introduced to the United States in 1923 with two large neon signs purchased by los Angeles Packard car dealers. Arresting the glow and red color, the neon ads were quite different from the competition. The intense color and vibrancy of neon, the same as american society at the time, suggested the progress of the century and turned the city into a sensational new environment filled with radiated advertising and electric graphic architecture. [20] Neon played a role in the basic understanding of the nature of atoms in 1913, when J.J. Thomson guided the flow of neon ions through magnetism and electric field as part of his exploration of the composition of canal lines, and measured the deflection of streams with photo boards. Thomson observed two separate patches of light on the photo plate (see image) which suggested two different flashes of deflection. Thomson eventually concluded that some of the neon gas atoms were of a higher mass than the rest. Thomson did not understand at the time, but this was the first discovery of a stable atomic isodic. Thomson's instrument was a crude version of the instrument we now call a mass spectrometer. Isotope theory. The first evidence for neon isotope stabilizer was provided in 1913 by experiments on neon plasma. In the lower right corner of J.J. Thomson's photo plate are separate impact marks on two isodics: Neon-20 and Neon 22. Neon is the second lightest inert gas. Neon has three stable isotopes: 20Ne (90.48%), 21Ne (0.27%) 21Ne (9.25%) 21Ne and 22Ne are partially primitive and partially nucleation (i.e., made by nuclear reactions of other nucleons with environmental neutrons or other particles), and variations in natural abundance are well understood. In contrast, 20Ne (the main primary isolytholic body created by stellar nuclear synthesis) is not known to be nuclear or radioactive. The causes of the 20Ne variation on Earth are hotly debated in this way. The main nuclear reaction, which produces nuclear proto-neon isotopes, begins at 24 Mg and 25 Mg and produces 21Ne and 22Ne, respectively, and occurs after the capture of neutrons and the immediate release of alpha particles. The neutrons that produce the reaction are mainly produced by secondary spole reactions from alpha particles and originate from uranium-based decay chains. The net result brings a tendency towards the low 20Ne/22Ne and high 21Ne/22Ne ratios observed in uranium-rich rocks such as granite. [23] 21Ne may be generated by a nucleation reaction, or 20Ne may absorb neutrons from various natural land neutron sources. In addition, isolyth analysis of exposed ground rocksProduction of (cosmic rays) 21Ne. This is produced by sparse reactions to magnesium, sodium, silicon and aluminum. By analyzing all three areesthes, cosmic origin components can be solved from magma nuclear ions and nucleogenic neon. This suggests that neon can be a useful tool in determining the age of space exposure for surface rocks and meteorites. As with xenon, the neon content observed in samples of volcanic gases is concentrated at 20 Ne and nucleodic 21Ne for a 22Ne content. The neon isothical content of these mantle-derived samples represents a non-atmospheric neon source. The 20Ne concentrated component is probably attributed to earth's exotic proto-rare gas component, which represents solar neon. The high presence of 20Ne is contained in the diamond, which further suggests the Earth's solar neon reservoir. [25] Feature neon is the second lightest noble gas after helium. Glows red-orange with a vacuum discharge tube. The neon also has the narrowest liquid range from 24.55 to 27.05 K (-248.45 ° C. to -245.95 ° C., or -415.21 ° F to -410.71 ° F). It has more than 40 times the refrigeration capacity of liquid helium (per unit volume) and three times that of liquid hydrogen. [2] In most applications, it is a cheaper refrigerant than helium. [26] [27] The spectrum of neon with ultraviolet (left) and infrared (right) lines indicated by white neon plasma has the most intense light discharge at normal voltages and currents of all noble gases. The average color of this light to the human eye is red-orange for many lines in this range. It also contains a strong green line that is hidden, as long as the visual components are not dispersed by the reflector. [28] Two completely different types of neon lighting are commonly used. Neon glow lamps are generally small and most often work from 100 to 250 volts. It is widely used as a power-on indicator and circuit test equipment, but light emitting diodes (LEDs) are now dominant. These simple neon devices pioneered plasma displays and plasma TV screens. [30] Neon signs usually operate at much higher voltages (2 to 15 kilovolts) and light emitting tubes are generally meters long. Glass tubes are often formed in the form of signs or letters, for architectural or artistic uses. Neon signs in Hampden, Connecticut, and neons of florist occurrence stable are produced in stars. Neon's most abundant is the fusion of 20Ne (90.48%) carbon and carbon in the carbon combustion process of stellar nuclear synthesis. This requires temperatures in more than 500 megakelvins generated in the cores of stars with eight or more solar masses. [33] [34] Neon is abundant on a universal scale. It is the fifth most abundant chemical element in the universe after hydrogen.Oxygen, carbon (see Chemical elements). Relative rarity on Earth is due to relative brightness like helium, high vapor pressure at very low temperatures, and chemical inertness, which tend to be trapped in condensed gases and dust clouds that form small, warm solid planets like Earth. Neon is lighter than the two-atom nitrogen and oxygen molecules that form most of the Earth's atmosphere, it makes molecules of atoms, and neon-filled balloons rise more slowly into the air than helium balloons. The abundance of neon in the universe is about one part at 750. Under the sun, and perhaps in the nebula of the primary solar system, about one part of the 600. Galileo spacecraft's atmospheric rsh probe found that even in Jupiter's upper atmosphere, neon abundance is reduced by about 10 times (depleted) to a level of 6,000 times. This may indicate that even ice planets that brought neon to Jupiter from the outer solar system formed in areas where there was too much warmth to retain neon atmospheric components (Jupiter's abundance of heavier inert gases is several times below that found in the sun). Neon consists of one in every 55,000 pieces in the Earth's atmosphere, a volume of 18.2 ppm (which is about the same as a molecular or molar fraction), or one part in 79,000 pieces of air by mass. It contains small minutes of crust. It is industrially produced by cryogenic distillation of liquefied air. On August 17, 2015, nasa scientists reported neon detection in the lunar outer zone, based on a study by the Lunar Air and Dust Environment Explorer (LADEE). [38] Chemical crystal structure of nesslerate hydrates[39] Main article: Neon compound neon is the first p-block noble gas and the first element with a true octet of electrons. It is inactive: not identified as if it had strongly bound sex molecules, including its light analogues, helium and neon. Ions [NeAr]+, [NeH]+, and [HeNe]+ have been observed from optical and mass spectrometry studies. Solid neon class rate hydrates are generated from water ice and neon gas at a pressure of 0.35-0.48 GPa, and about -30 ° C. [40] Ne atoms do not bind to water and can freely pass through this substance. They can be extracted by placed the lens in a vacuum chamber for several days and obtaining ice XVI, the least dense crystalline form of water. The familiar polling electrical negolytisy scale depends on chemical binding energy, but such values are clearly not measured for inert helium and neon. The Allen electric negative scale, which relies solely on (measurable) atomic energy, considers neon to be the most electrically negative element, followed closely by fluorine and helium. Application neon is often used in signs and produces unmistakableReddish-orange light. Tube lights of other colors are often referred to as neon, but use different rare gases and fluorescent light color changes. Neon is used for vacuum tubes, high pressure signs, lightning arrestors, wave gauge tubes, TELEVISION tubes and helium neon lasers. Liquefied neon is commercially used as a cryogenic refrigerant in applications that do not require a low temperature range achievable with more extreme liquid helium refrigeration. Neon is relatively expensive, as liquids and gases - in small quantities, the price of liquid neon can be more than 55 times that of liquid helium. Driving neon costs is a neon rarity and, like helium, can only come from the air. Neon's three-point temperature (24.5561 K) is a fixed point on the international temperature scale in 1990. [41] See also Extension Ratio Neon Sign Neon Lamp Portal Access Related Topics Learn Learning Resources from Wikiversity References from Wikitcolli Textbooks to Chemistry Related Topics Wikipedia Sister Projects ^ Majja, Jeury; et al. (2016). Atomic Weight of Element 2013 (IUPAC Technical Report). Pure and applied chemistry. 88 (3): 265–91.Doi: 10.1515/pac-2015-0305. ^ a b c d Hammond, C. R. (2000). Elements in the Handbook of Chemistry and Physics, 81st Edition (PDF). 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