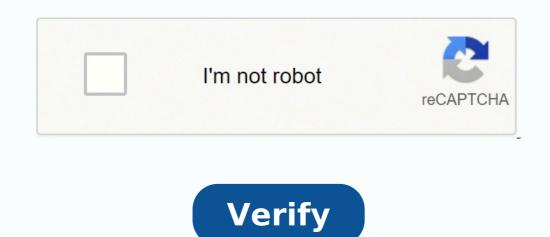
Write the electronic configuration of cl negative ion



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a) The chlorine (Cl) atom has the atomic number 17. It contains 17 protons and 17 electrons. Chlorine ion (Cl-) is formed when Cl gains an electron. So, Cl- has 18 electrons and 17 protons. Therefore, the electron configuration of Cl- = 2, 8, 8. b) Atomic number of Cl- = 2, 8, 8. b) Atomic number of Cl- = 17 Mass number of Cl- will be the same as Cl i.e. 35. c) Valence is defined as the combining capacity of an atom. For a non-metallic element, it equals eight minus the number of electrons in the outermost shell, so the valence of Cl- = 8 - 8 = 0 Predict whether an atom will undergo ionization to provide an anus or a cation based on its electron configuration with valence shell. The electronic configuration of many ions is that of the noble gas closest to them in the periodic table. An anion is an ion that has lost one or more electrons, obtaining a positive charge. Every atom in its earthly state is not charged. It has, according to its atomic number, the same number of protons and electrons are rather labile, however, and an atom will often acquire them or loss of electrons is the energetically optimal state of having a full valence (more external) electron shell. In this state, the resulting charged atom has the configuration of the electron will disrupt the proton-electronic balance and leave the atom negatively charged. Removing an electron, on the other hand, will leave the atom positively charged atoms are known as ions. The Formation of Monatomic ions Monatomic ions are formed by the addition or removal of electrons from the valence shell of an atom. The inner shells of an atom are filled with electrons that are tightly bound to the positively charged atomic nucleus and thus do not participate in this kind of chemical interaction, but the valence shell can be very reactive depending on the atom and its electron configuration. The process of gaining or losing electrons from a neutral atom or molecule is called ionization. Atoms can be ionized by radiation bombardment, but the more purely chemical process of ionization is the transfer of electrons between atoms or molecules. configurations. Atoms will acquire or lose electrons depending on which action takes less energy. For example, the Group 1 sodium element (Na) has a single electron in its valence shell, with shells filled with 2 and 8 electrons underneath. The removal of this electron leaves the sodium stable: Its outer shell now contains eight electrons, giving the the configuration of the neon electron. Having earned a positive charge, the sodium is called a cation. Sodium ionization can be chemically illustrated as follows: Na \rightarrow Na+ + e- e- e-It could earn electrons, but it would take another seven to get a full valence. Removing an electron is much easier than getting seven, and therefore the sodium in each chemical scenario will reach its octet becoming a cation. On the other hand, a chlorine atom (Cl) has 7 electrons in its valence shell, which is one less than a stable 8-electron configuration (the same as the argon), becoming a negative chloride anion in the process: Cl + is « Clâ€TM Combining the suspension propensity to lose an electron and chloride to acquire an electron, a complementary reactivity is observed. When combined, unloaded atoms can exchange electrons, a complementary reactivity is observed. leaving a crystalline structure to NaCl reticle, more commonly known as salgemma. The reaction is as follows: Na+ + Cl⤠NaCl Poliatomic and Moleculatory Ions are often generated by the addition or removal of elementary ions such as H+ in neutral molecules. For example, when ammonia, NH3, accepts a proton, H+, form ammonium has an extra proton (H+) that gives it a positive charge. Chemical notation When writing the chemical formula for an ion, its net charge is written in apex immediately after the chemical structure for the molecule or atom. The net charge is written with the magnitude before the sign, i.e. a double-loaded cation is indicated as 2+ instead of +2. However, the amount of the charge is written with the magnitude before the sign, i.e. a double-loaded cation is indicated as 2+ instead of +2. indicated as Na+ and not Na1+. An alternative way of showing a molecule or an atom with multiple charges is by drawing the signs several times; this is purely ornamental and does not alter the chemical meaning. An iron atom loaded twice positively can also be expressed as Fe2+ or Fe++. In the case of transition metals, oxidation states can be specified with Roman numerals; For example, Fe2+ is sometimes referred to as Fe (II) or FeII. The Roman numerals; For example, Fe2+ is sometimes referred to as Fe (II) or FeII. interchangeable with monatomic ions, but Roman numerals cannot be applied to polyatomic ions. However, it is possible to make an example. It should be noted that it is possible to remove many electrons from an atom. The energy needed to make it do it be recorded in a later ionization energy diagram. First ionization energy (IE) vs. atomic number: Note that in each of the seven periods the IEE (colored circles) of an element begins at the minimum for the first column (noble gases) which are indicated by vertical lines and labeled with a symbol of noble gas elements, and which also serve 7 lines. Note that the maximum ionization energy for each row 4 core as the internal shells are added. di Home di Study quide di Science di Mathematics and Aritmetics di History di Literature and Language di Technology di Health 🕮 Legal and Issues di Business & Finance Tutti All topics Class fy di Leaderboard Related topics di Chemistry Atoms and Atomic Structure di Periodic Table di Chemistry Atoms and Atomic Structure di Periodic Str the Aufbau principle can only be used in reality as a way to process the electronic structures of most atoms. It is a simple way to do it, even if it fails with some, such as chromium or copper, of course, and you have to learn these. 3d electrons not the ones to be lost when metallic ionizing? I wrote a detailed explanation of this on another page called the order to fill orbital 3d and 4s. If you're not so sure, or are you coming for the first time, I suggest you ignore it. Find out how to process the structures of these atoms using the Aufbau Principle on the hypothesis that 3d orbitals fill after 4 years, and learn that when ionizing atoms, 4s electrons are always lost before. Just ignore the contradictions between these two ideas! What is the configuration of the underground electron of the Cl – ion chloride? Express your condensed response, so you can increase your orbital energy. Indiana University Bloomington Write electron configuration for each ion. V3+ Transcription: (Promo) You are listening to chemistry World, the magazine of the Royal Society of Chemistry World, the magazine of the Royal Society of Chemistry World, the magazine of the Royal Society of Chemistry in its element brought to you by Chemistry World, the magazine of the Royal Society of Chemistry World, the Royal Society of Chemi ozone layer and is used in chemical synthesis reactions more than a benzene ring can be shaken. Well, the man with the answer is Tim Harrison. Tim. Chlorine is what you could describe as a Jekyll and Hyde element; it is the friend of the synthetic chemist and found use in a number of beautiful" as the disinfection of drinking water and keeping ourClean pools. It also has an unpleasant side, being the first chemical war agent and taking part in the responsibility for impoverishment of the ozone layer of the Earth. Elementary chlorine is a light and yellowish green gas at room temperature. It was the Greek word khlÃ'ros that means vellowish-green, which was used as inspiration by Sir Humphrey Davy when he named this element in the 19th century. This element was first isolated in 1774 by Swiss-German chemist Carl Wilhelm Scheele, reacting hydrochloric acid with manganese oxide (IV). But he did not realize his result, mistakenly believing that it contained oxygen. It was Davy in 1810 who concluded that Scheele had produced elementary chlorine. Chlorine belongs to group 17 of the periodic table, also called halogens, and is not found as an element in nature - only as a compounds. (or potassium chloride) and carnallite (potassium chloride, and silvite potassium). It is also estimated that there are about two thousand organic compounds of chlorine. Chlorine has two stable isotopes, chlorine-35 and chlorine-36 is also known in nature and is a radioactive isotope with a half-life of about 30,000 years. Chlorine plays an important role in synthetic organic chemistry, participating in three of the most common reaction mechanisms. In the first, the photochemical replacement reaction, chlorine reacts with an alcan by replacing one of the hydrogen atoms attached to a carbon forming a chloalan. This radical reaction is triggered by the use of sunlight or ultraviolet light to divide diatomic chlorine into two radicals. Chlorine can also react with alchenes through the electrophilic addition mechanism. This time two chlorine atoms are added to a molecule through the dual carbon-carbon bond rich in electrons. This reaction must be carried out in the dark to avoid complications with competitive replacements of free radicals. A third common mechanism is electrophilic replacement, which occurs when chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlobenzene and hydrogen atom to form chlobenzene and hydrogen atom to form chlobenzene and hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form chlorine reacts with a benzene ring by replacing a hydrogen atom to form to hydrogen atom to hydrogen atom paper products, plastics such as PVC and tetrachloromethane solvents, chloroform and dichloromethane. It is also used to produce dyes, tissues, medicines, antiseptics, insecticides and paints. Its best known uses are probably in the production of 'Domestos' and in the treatment of drinking water and pools to make them safe to use and, of course, its rolechemical war agent. The treatment of water with chlorine began in London after a cholera epidemic in 1850, when the hygienic physician and pioneer John Snow unveiled a well in Soho asof the epidemic. Chlorine is still used in most wastewater treatment plants. anesthetic to promote the birth of Queen Victoria's two children. The use of chlorine as a chemical weapon was pioneered by German chemist Fritz Haber, best known for his work with ammonia. It was used for the first time against Allied soldiers in the Battle of Ypres during World War I. While it was rapidly replaced by the more deadly phosene gas and mustard, chlorine was used as a weapon in 2007 in Iraq during the second Gulf War. Chlorine has also been used to produce a range of solvent aerosols and refrigerants called chlorofluorocarbons or CFCs. However, their use was discontinued when it became apparent that when in the atmosphere these compounds absorb ultraviolet light and cause the homolytic bond to fission, producing a chlorine-free radical that in turn reacts with ozone. This has led to a reduction in protection for us on the planet's surface, making us more vulnerable to skin cancer. This is chlorine, a Jeckll and Hyde element with a wide range of applications. Chris Smith So slap on your sunscreen. Tim Harrison was telling the story of Element number 17, chlorine. Tim works at ChemLabs at the University of Bristol. Next week, the X-ray stuff. Brian Clegg This grey metallic element emits beta particles as it decays. These can cause radioactive damage on their own, but prometheus is probably the most dangerous because these beta particles generate X-rays when they hit heavy nuclei, causing a sample of promethium to bathe the surrounding environment in a constant low dose X-ray beam. Initially it was used to replace radius in light dials. Promethium chloride has been mixed with phosphors that glow yellowgreen or blue when radiation strikes them. However, as the dangers of the element's radioactive properties became apparent, it was also abandoned by the "blow-in-the-dark" domestic market, currently used only in specialized applications. Chris Smith And you can hear what some of these applications are when Brian Clegg looks at the history of promethium in chemistry in next week's Element. In the meantime, more items are available from Chimistry world.org/elements. I'm Chris Smith, thank you so much for listening and goodbye. (Promo) (End promo)

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