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covalent bond in chemistry the interatomic linkage that results from the sharing of an electron pair between two atoms the binding arises from the electrostatic attraction of their nuclei for the same electrons

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a covalent bond forming H_2 where two hydrogen atoms share the two electrons a covalent bond is a chemical bond that involves the sharing of electrons to form electron pairs between atoms these electron pairs are known as shared pairs or bonding pairs

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9 covalent bonding molecules are groups of atoms that behave as a single unit some elements exist as molecules hydrogen oxygen sulfur and so forth there are rules that can express a unique name for any given molecule and a unique formula for any given name

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covalent bonds involve shared electron pairs between atoms each atom contributes one electron to each shared pair and effectively gains an additional electron from the shared pair atoms share the same number of pairs needed to fill their valence shell usually with eight

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a covalent bond is a chemical bond between two atoms where they share one or more pairs of electrons usually sharing electrons gives each atom a full valence shell and makes the resulting compound more stable than its constituent atoms are on their own

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such bonds are called covalent bonds covalent bonds are formed between two atoms when both have similar tendencies to attract electrons to themselves i e when both atoms have identical or fairly similar ionization energies and electron affinities

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a chemical bond formed by sharing a pair of electrons is called a covalent bond we begin our discussion of the relationship between structure and bonding in covalent compounds by describing the interaction between two identical neutral atoms for example the H_2 molecule which contains a purely covalent bond

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a covalent bond is formed between two atoms by sharing electrons the

number of bonds an element forms in a covalent compound is determined by the number of electrons it needs to reach octet hydrogen is an exception to the octet rule h forms only one bond because it needs only two electrons

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as a general rule covalent bonds are formed between elements lying toward the right in the periodic table i e the nonmetals molecules of identical atoms such as H_2 and buckminsterfullerene C_{60} are also held together by covalent bonds

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in the atomic world one atom is more electronegative than another atom and naturally pulls the shared electrons towards itself this pulling of electrons creates slight polarity in the bond covalent bonds where electrons are not shared equally between two atoms are called polar covalent bond

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a covalent bond is a type of chemical bond that involves the sharing of electron pairs between atoms the binding arises from the electrostatic attraction of their nuclei for the electrons it is responsible for holding the atoms together

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discover how atoms and ions come together through chemical bonding learn about ionic bonds covalent bonds polyatomic ions and metallic bonds and how they lead to the fascinating substances that make up our world

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a covalent bond in chemistry is a chemical link between two atoms or ions in which the electron pairs are shared between them a covalent bond may also be termed a molecular bond covalent bonds form between two nonmetal atoms with identical or relatively close electronegativity values

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a covalent bond is a shared pair of electrons covalent bonding results in

the formation of molecules or giant structures substances with small molecules have low melting and boiling

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ionic bonds are created by electrochemical attraction between atoms of opposite charges while molecular bonds aka covalent bonds are created by atoms sharing electrons in order to complete the rule of octet

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a covalent bond is formed by the equal sharing of electrons from both participating atoms the pair of electrons participating in this type of bonding is called a shared pair or bonding pair covalent bonds are also called molecular bonds

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covalent bonds form when electrons are shared between atoms and are attracted by the nuclei of both atoms in pure covalent bonds the electrons are shared equally in polar covalent bonds the

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11k 793k views 5 years ago gcse chemistry 9 1 this video covers how covalent bonding works how to show it with dot and cross diagrams and

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this crash course chemistry video tutorial explains the main concepts between ionic bonds found in ionic compounds and polar nonpolar covalent bonding found in molecular compounds

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