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Hydrogen Properties - What are the physical properties of hydrogen? What are the physical properties of hydrogen? The physical properties of hydrogen are characteristics that can be observed without changing the substance into another substance. Physical properties are usually those that can be observed through our senses such as color, glitter, freezing point, boiling point, melting point, density, hardness and smell. The physical properties of hydrogen are: What are the physical properties of hydrogen? ColorlessPhaseHydroGasgen changes from gas to liquid at -252.77 degrees Celsius (-422.99 degrees Fahrenheit) It varies from liquid to solid at temperatures -259.2 degrees Celsius (-434.6 degrees Fahrenheit)OdorHydrogen is the odorless gasTasteA tawdry gasDensityThe lowest of any chemical element, OdorHydrogen is an odorless gasTasteA tasteless gasDensity 0.08999 grams per liter - the least dense of all gasSone dissolved in water , alcohol and some other common liquidsHydrogen Properties - What are the chemical properties of hydrogen? What are the chemical properties of hydrogen? These are characteristics that determine how it will react with other substances or vary from one substance to another. The better we know the nature of the elements, the better we can understand it. Chemical properties are observed only during a chemical reaction. The reaction to substances can be caused by changes caused by combustion, rust, heating, explosion, denigration, etc. Chemical gas FormulaHHydrogen (H2)E oxidation burns in the air or oxygen to produce waterH2 reacts with each oxidative elementsReactivity with gasesCombining hydrogen and nitrogen at high pressure and temperature produces ammonia (NH3)In combination with carbon monoxide produces methanol (CH3OH)Reactivity with non-metal These are easily combined with non-metal such as sulfur and phosphorusIt is easily combined with halogens that include fluoride, chlorine, bromine, iodine , and astatineFlammabilityHighly Flammable, highly combustible diatomical gasCombustionWhen mixed with air and with chlorine it can spontaneously explode from spark, heat or sunlight. Example: destruction of Hindenburg airshipAcidic acid compounds include salt acid (HCl), sulphuric acid (H2SO4), nitric acid (HNO3), acetic acid (HC2H3O2) and phosphoric acid (H3PO4)Facts and information about the properties of hydrogenThis article on the properties of hydrogen provides facts and information about the properties of hydrogen. Additional facts and information relating to the periodic table and elements can be accessed through a map of the periodic table site. Hydrogen compounds are called hydrides, regardless of whether they contain hydride There are three main types of hydrides - ionic, covalent and interstitial interstitial As shown in the periodic table of hydrides shown in the picture (sfPageIndex(3)), interstitial or metal hydrides are formed by some transient metals, while ion hydrides are mainly formed by more electro-positive metals and covalent hydrides of nonmetals. Hydrides Be, some metalloids, and some metals after transition are said to be intermediate hydrides because they form networked covalent structures (sometimes in addition to molecular) and tend to function as bases and hydrohydride donors such as ionic hydrides. Not all transient metals are known to form hydrides. Hydrodrides are not known for transient metals of groups 7-9, which are said to make up the gap in the hydraulics. Ion hydrides (as well as saline hydrides) Ionian hydrides are metallic hydride salts, H-. They are formed by alkaline and all alkaline earth metals except Be. They are usually prepared by a direct metal reaction and H_2 hydrogen. s) H_2 (g MH_2) Rutil and PbI2 for MH2). Chemically ion hydrides act as sf2CaH_2 (s) TiO_2 (l) rightrightarrow2CaO (s) tee (H_2) sfMH (s) - H_2O (l) - rightrightarrow-M' (aq) - H_2 (g) - (aq) - for this reason CaH2 is widely used as a sushi agent. Jet metal hydrides can also be used to deprotonize C-H (sfNaH(s) CH_3C C-H(g)rightrightarrowCH_3C equiv C:-NaH_2 (g) H- ion in ion hydrides can in principle act as a nucleus. In practice, however, this application is limited to less reactive and therefore more selective hydrides of aluminum and boron, both of which are usually classified as intermediate hydrides due to the covalent nature of their E-H bonds. metalloids and many post-transition metals. The chemical and physical properties they possess vary throughout the main group and depend to some extent on the series and on whether the element's hydraulics are a scarce electron, a rich electron or an electron. Specifically, electronic unsatisfactory hydrides are elements of Be and Group 13 (B, Al, Ga, In and Tl), for which the neutral monomeric element is hydride (BeH2, BH3, AlH3, GaH3, InH3 and TH3) does not have enough electrons to meet the Octet rule. Thus, these hydrides usually form dimers (B, Al, Ga, In, Tl) or polymers (Be) held together by overcoming E-H-E bonds (Scheme) ((SFPageIndex (IIA)). These E-H-E connections are explained as a three-centered two-electronic bond in the theory of the Valent Bond Scheme (SF) but can also be described in terms of molecular orbital note Scheme (SF-PageIndex). (A) Overcoming E-H-E connections in Al2H6 and (B) their description of valence communication in terms of overlap between H 1s and Al sp3 orbitals. Electron exact and electron-rich hydrides are formed by C, N, O, F, and their heavy copenens. These E-H connections in them can be described as the classic two-center two electrons of the E-H Bond Theory lewis. Electron-rich hydrids differ in that electron-rich hydrids possess lone paired electrons while electron-like hydrids are not present. In other words, electron exact hydrides are those of a group of 14 elements, and include alkanes, alkenes, and carbon alkyls along with SiH4, GeH4, SnH4, and PbH4, of which the hydrate adducts of the group 13 EH3 compounds like BH4- and AlH4- are analogues. Electron-rich hydrides NH3, H2O, HF and their heavier counterparts (PH3, H2S, HCl, etc.). Regardless of the classification of the hydride, the stability of the hydride elements is reduced down the group. For example, among the elements of group 14, ch4 is the order of the CH4. SiH4's GeH4, SnH4, the same applies to compounds possessing E-E bonds, so while the huge number of alcans are known there are relatively few silans, fewer germanes, and only organic stannan analogues are known (e.g. (CH3)3Sn-Sn (CH3)3). The difference between precise electrons and electrons rich in hydrides is important mainly in thinking about the basic properties of the element's hydrates. As shown in the Scheme (sfPageIndex)III, electronic unsatisfactory hydrides tend to function as Lewis acids and electron-rich hydrides as bases of Lewis and Brownstead acids. Scheme ((SF-PageIndex). In the absence of extremely strong acids or bases (A) electron-deficiency hydrides like BH3 tend to act as Lewis's acids in the formation of dducts with bases like THF while electron-rich hydrides like can act as (B) Lewis base through their lonely vapors like water with Cu2, when anohydrous Cuso4 dissolves in water as water does when it is used to quench alcoxide product nucleophilic reaction addition. The reactivity of precision hydride electrons depends on the characteristics of E. For example, while most alcans do not act like Lewis acids in carbon, a series of 3 and heavier electron-precision hydrides can form trigonal bipiramide addus. In addition, all elements of hydrides - whether electron is insufficient, accurate or rich - can function as weak Brunstead acids or donor hydride depending on the polarity of the E-H connection. Hydrides in which hydrogen is associated with rich electrons and electronic elements tend to act as logededic acids, while those associated with more electro-positive elements tend to function as hydrohyde donors, sfPageIndex. Scheme (SF-PageIndex). (A) Rich electron hydride chlorine acts as a logsteadic acid in the formation of a (B) relatively electropositive hydride in tetrahydroluminate is widely used as a hydride donor in organic chemistry, as evidenced by the use of lithium aluminium hydride to form alcohols from ketones. Whether this E-H connection is polarized in order to favor a negative partial positive or negative charge of hydrogen depends on the electrogathity of the element, as shown in the picture (sf-PageIndex(4)). As seen in the picture (sf-PageIndex(4)), metals give bond hydrides, metalloids (including B) weakly polarized bonds and most non-metallic bonds. Figure ((SF-PageIndex(4)). The difference between the element and hydrogen ling electronegativity. The more positive values correspond to positively polarized hydrogen while the more negative ones are greater than the partial negative charge on hydrogen(4), to function as a hydride donor. However, it can be detonated in liquid ammonia, probably due to the high salt energy resulting from Ion NH_4 GeH_4 NH_3 (l) (GeH_3) also play a role in electronic factors that affect the stability of conjugic acid or the basic forms of the hydride element. For example, carbon-hydrogen bonds are usually very mildly acidic, but can (A) act as strong brunstead acids when the resulting anion is highly stabilized or (B) This is illustrated by the well-known ability of C-H bonds to function as Brunstead acids, hydrates donors, or none depending on the electron-wealth of the carbon center and the stability of the resulting structure (Scheme). Scheme (SF-PageIndex). (A) Enolate chemistry, such as the chemistry used in the formation of ligands of acetylacetata (akak), is based on the ability of C-H (sf-alpha) bonds to act as acids and (B) C-H communication NADH functions as a donor of hydride in biochemical systems. Notice the similarity in the reactivity of the C-H hydride in NADH and Al-H in LiAlH4 shown in the Scheme (sf-PageIndex). Additional aspects of the acid-base chemistry of the element's hydride are described in 6: Acid-base and donor chemistry, as well as the ability of hydrogen to form hydrogen bonds. In interstitial or metallic hydrides, hydrogen dissolves in metal to form nonchiometry compounds (solid solutions) of the MHn formula, as shown schematically (sfPageIndex(5)). Drawing (sfPageIndex(5)). The metal lattice expands by 10-20% during this process.1 Taken from 3A. Inorganic Chemistry. (Housecroft)10%3A Hydrogen/1 10.7% 3A. Binary Hydrides - Classification and General Properties/10.7D% 3A. Molecular Hydrides and Complexes Derived from them The process of interstitial formation of hydrides reversibles and metals can dissolve different amounts of hydrogen depending on the amount of interstiti rat. Because of this, interstitial hydrides were considered as materials for storing hydrogen. (PageIndex(1)). The qualitative molecular orbital description of communication in the B-H-B Diboran Communication in The Diboran can also be explained by a molecular orbital description, as evidenced by the quality of the MO diagram in the picture (sf-PageIndex(6)). The Mo's (sfPageIndex(6)). chemical properties of hydrogen peroxide. chemical properties of hydrogen sulphide. chemical properties of hydrogen chloride. chemical properties of hydrogen chloride gas. chemical properties of hydrogen halides. chemical properties of hydrogen peroxide class 11. chemical properties of hydrogen class 11. chemical properties of hydrogen in points

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