

Title: What is hydrogen gas

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Is hydrogen a clean fuel?

Hydrogen is a clean fuel that, when consumed in a fuel cell, produces only water. Hydrogen can be produced from a variety of domestic resources, such as natural gas, nuclear power, biomass, and renewable power like solar and wind. These qualities make it an attractive fuel option for transportation and electricity generation applications.

Is hydrogen a gas or a molecule?

It's the most abundant chemical element, estimated to contribute 75% of the mass of the universe. Here on earth, vast numbers of hydrogen atoms are contained in water, plants, animals and, of course, humans. But while it's present in nearly all molecules in living things, it's very scarce as a gas - less than one part per million by volume.

What is hydrogen combined with oxygen?

Hydrogen combined with oxygen is water (H_2O). Hydrogen combined with carbon forms different compounds -- or hydrocarbons -- that are found in natural gas, coal, and petroleum. The sun is essentially a giant ball of hydrogen gas undergoing fusion into helium gas. This process causes the sun to produce vast amounts of energy. Source: NASA (public domain)

Is hydrogen a combustible gas?

Under standard conditions, hydrogen is a gas of diatomic molecules with the formula H_2 , called dihydrogen, or sometimes hydrogen gas, molecular hydrogen, or simply hydrogen. Dihydrogen is colorless, odorless, non-toxic, and highly combustible.

Unlike on the sun, Saturn or Jupiter, the colourless and odourless gas occurs on Earth almost exclusively in bound form: It is found in fossil raw materials such as natural gas and crude oil as well ...

Under ordinary conditions, hydrogen gas consists of a pair of atoms or a diatomic molecule with a wide range of bonding. The most important chemical compound water (H_2O) is obtained by burning it ...

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Hydrogen is a clean fuel that, when consumed in a fuel cell, produces only water. Hydrogen can be produced from a variety of domestic resources, such as natural gas, nuclear power, biomass, and ...

What is hydrogen? Hydrogen is a clean alternative to methane, also known as natural gas. It's the most abundant chemical element, estimated to contribute 75% of the mass of the universe. Here on earth, ...

The earliest known chemical property of hydrogen is that it burns with oxygen to form water; indeed, the name hydrogen is derived from Greek words meaning "maker of water."

What is Hydrogen and Its Basic State of Matter Hydrogen is the lightest and most abundant element in the universe, making up about 74% of all visible matter. But is hydrogen a gas? ...

What is hydrogen gas

What is Hydrogen Gas? Hydrogen is the non-metal with the chemical symbol H. The molecular formula of hydrogen is H₂. Hydrogen has been recognized as a convenient, clean-burning fuel. It can be ...

Hydrogen is a feedstock and energy carrier used in multiple sectors. Global hydrogen demand reached 97 Mt in 2023, a 2.5% increase from 2022, with 10 Mt in the U.S.^{1,2} Hydrogen is the most abundant ...

Under standard conditions, hydrogen is a gas of diatomic molecules with the formula H₂, called dihydrogen, or sometimes hydrogen gas, molecular hydrogen, or simply hydrogen. Dihydrogen is ...

Hydrogen is the lightest element. Hydrogen is a gas at normal temperature and pressure, but hydrogen condenses to a liquid at minus 423 °F (-253 °C).

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