

# What is hydrogen gas

Hydrogen can be used as fuel in a variety of fuel cell electric applications to generate power, emitting only water and heat as byproducts. The conversion of hydrogen to electricity emits no pollutants that affect public ...

As clean energy and decarbonization drive new breakthroughs in hydrogen storage, CO2 transport, and alternative gas carriers, keeping pace with technical trends and patent activity is ...

Graph and download economic data for Producer Price Index by Industry: Industrial Gas Manufacturing: Argon and Hydrogen (PCU325120325120C) from Jun 2009 to Jun 2025 about gas, manufacturing, ...

What Is Industrial Hydrogen? At its simplest, industrial hydrogen is hydrogen gas produced at large scale for use in various industries. Historically, it's been central to sectors like refining ...

The seven elements--helium, neon, argon, krypton, xenon, radon, and oganesson--of Group 18 of the periodic table. All of the noble gases are present in Earth's atmosphere and are colorless, odorless, tasteless, and ...

Hydrogen cyanide, a highly volatile, colorless, and extremely poisonous liquid. A solution of hydrogen cyanide in water is called hydrocyanic acid, or prussic acid. It was discovered in 1782 by a Swedish chemist, Carl ...

A gas-lye separator is a vessel designed to separate the generated hydrogen or oxygen gas from the alkaline electrolyte solution after electrolysis. In alkaline electrolysis, water splits into ...

The quantity of emissions associated with producing hydrogen fuels depends on the source of feedstock and method of production. Currently, almost all hydrogen in the U.S. is derived from natural gas by stripping and ...

A hydrogen water bottle uses advanced electrolysis technology to split water molecules and inject molecular hydrogen gas into the water. This process typically uses platinum-coated titanium ...

The online platform will host different mechanisms covering hydrogen, raw materials, natural gas and biomethane, with the possibility to cover other products in the future. It aims to empower ...

Primarily, hydrogen gas is a colourless, odourless, and highly flammable substance. It's prized for its high energy content per unit weight, making it an attractive option for sustainable power ...

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