

Hydrogen Bromide Market By Type (Biocides, Flame Retardants, Catalyst, Oil and Gas Drilling, Polysilicon Etching, Others), By End-use Industry (Automotive, Water Treatment, Electronics, Construction, Agriculture, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

Market Report | 2022-08-01 | 300 pages | Allied Market Research

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Report description:

The hydrogen bromide market attained \$4.0?billion in 2021, and is projected to reach \$6.3?billion by 2031, growing at a CAGR of 4.9% from 2022 to 2031.

Hydrogen bromide is an inorganic compound with the formula HBr. It is a hydrogen halide made up of both, bromine and hydrogen. It is a colorless gas that dissolves in water to create hydrobromic acid, which, at room temperature, is saturated with 68.85% HBr by weight. A constant-boiling azeotrope mixture made up of aqueous solutions containing 47.6% HBr by mass boils at 124.3 C until the composition of the mixture is constant, boiling less concentrated solutions releases water. Hydrogen and bromine are mixed at temperatures between 200C and 400C to form hydrogen bromide and hydrobromic acid during the industrial preparation process. ?Usually, platinum or asbestos is used to accelerate the process. By distilling a solution of sodium bromide or potassium bromide with phosphoric acid or sulfuric acid, HBr can be made in the laboratory. On a smaller scale, triphenyl phosphonium bromide can also be thermolyzed in xylene, which is refluxing to create anhydrous hydrogen bromide. All these methods for producing hydrogen bromide can result in Br₂ contamination, which can be eliminated by passing the gas through copper turnings or copper gauze at high temperatures, or by passing it through a phenol solution in tetrachloromethane or another suitable solvent at room temperature (producing 2,4,6-tribromophenol and more HBr in the process). As a solvent, hydrogen bromide is used to produce a variety of compounds and medications. It is primarily utilized to create inorganic bromides, particularly sodium, calcium, and zinc bromides, which are employed in chemically synthesizing fire retardants, industrial drying, textile finishing, engraving, and lithography, as well as photography, medicines, and industrial drying. Hydrogen bromide is widely used because of its electronic applications for both, small and large consumer electronics devices, such as massagers, vacuum cleaners, refrigerators, washing machines, vacuums, computers, phones, smoke detectors, electric

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tools, and lamps. This is due to the growing demand from the electronic sector and its use due to digitization. In addition, it is used in the production of brominated fluorocarbons for aerosols, refrigeration, and fire extinguisher. Diluted HBr is utilized in holography, cleaning supplies and household care, and pharmaceutical industry, for use in the specific chemical composition of drugs. The global hydrogen bromide market is expected to increase in the near future due to favorable regulations on the use of bromine, due to its harmless nature in the atmosphere. Hydrogen bromide finds its application in oil and gas drilling operations, and the growing oil and gas industry is expected to further drive the global hydrogen bromide market growth.

The market for hydrogen bromide is diminishing as a result of its increasing restrictions, as it can cause a variety of harmful health impacts from inhalation, whether the exposure is short-term or long-term. Dermatitis may develop after prolonged exposure to high doses. Laryngeal spasm and pulmonary edema are frequent side effects of severe exposures. Ingestion results in stomach and mouth burning. If an individual inhales phosphorus tribromide and hydrogen bromide accidentally, it results in the formation of lung infiltrates compatible with chemical pneumonitis. Several people developed acute pneumonitis and reactive airways dysfunction syndrome after taking a hot tub bath. The main factors restraining the market's growth are huge danger of substitution and the environmental issues associated with the use of hydrogen bromide. Due to the recent global chip shortage, there is a wide spectrum of opportunities for expansion of the hydrogen bromide market. Hydrogen bromide is used in the etching process of polysilicon wafers, which are used to make chips in the semiconductor industry. Besides, it is also used in the production of some industrial printed circuit boards. With the development of electronics and construction industries, the demand for bromine-based flame retardant application is expected to increase. China is one of the main markets for zinc-bromine batteries, due to the growth of the electric vehicle market in the region. This factor is likely to provide lucrative opportunities to the hydrogen bromide market. Rise in demand for effective treatments globally is also expected to drive the demand for hydrogen bromide during the forecast period.

High demand for hydrogen bromide is anticipated during the forecast period due to increase in demand for electronic chips in Japan and South Korea. The need for advanced semiconductors in the electronics sector of rising countries in the Asia-Pacific area, including China, India, Indonesia, Japan, and South Korea, is expected to present profitable prospects for the region's hydrogen bromide producers.

The hydrogen bromide market is segmented into application, end-use industry, and region. Depending on application, it is categorized into biocides, flame retardants, catalyst, oil and gas drilling, polysilicon etching, and others. On the basis of end-use industry, it is categorized into automotive, water treatment, electronics, construction, agriculture, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The major players operating in the global hydrogen bromide market include, Air Liquide, Albemarle Corporation, Bhavika Chemicals Corporation, Chevron Phillips Chemical Company LLC, Gulf Resources, Inc., LANXESS, Linde plc, MATHESON TRI-GAS, INC, Neogen Chemical Ltd, Showa Denko K.K, Sontara Organo Industries, Tata Chemicals Ltd, Tosoh Corporation, Triveni Interchem Private Limited, and Verni Gas Corporation. Other players operating in the market are Praxair, Inc., Chemtura Corporation, NRS Chemicals LLP, and Astitva Chemicals.

IMPACT OF COVID-19 ON THE GLOBAL HYDROGEN BROMIDE MARKET

-COVID-19 has spread across the globe and effected almost all aspects of life.

-Some major economies that have suffered severely from the COVID-19 crisis include, Germany, France, Italy, Spain, UK, and Norway.

-Due to lockdown and other restrictions imposed by governments to prevent the spread of infections, there was a shortage of raw supplies as well as manpower, further harming the supply chain for the market.

-Due to a lack of raw materials and interruptions in the supply chain, supplier contracts were terminated to reduce expenses. Due to reasons like the stoppage of construction, automotive, electrical operations, supply chain constraints, and a temporary halt in production, the demand from building and construction, automotive industries decreased.

-However, after the pandemic, as the supply chains return to normal after the restrictions were lifted, market participants in this market have explored for measures to minimize the pandemic's impact on their business.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the hydrogen bromide market analysis from 2021 to 2031 to identify the prevailing hydrogen bromide market opportunities.

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- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the hydrogen bromide market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global hydrogen bromide market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Biocides
- Flame Retardants
- Catalyst
- Oil and Gas Drilling
- Polysilicon Etching
- Others

By End-use Industry

- Water Treatment
- Electronics
- Construction
- Agriculture
- Automotive
- Others

By Region

- North America
 - ? U.S.
 - ? Canada
 - ? Mexico
- Europe
 - ? Germany
 - ? France
 - ? UK
 - ? Spain
 - ? Italy
 - ? Rest Of Europe
- Asia-Pacific
 - ? China
 - ? Japan
 - ? India
 - ? South Korea
 - ? Rest Of Asia-Pacific
- LAMEA
 - ? Brazil
 - ? Saudi Arabia
 - ? South Africa
 - ? Rest Of LAMEA

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- Key Market Players
- ? Air Liquide
- ? Albemarle Corporation
- ? Bhavika Chemicals Corporation
- ? Chevron Phillips Chemical Company LLC
- ? Gulf Resources Inc.
- ? Lanxess
- ? Linde plc
- ? MATHESON TRI-GAS
- ? Neogen Chemical Ltd
- ? showa denko k.k.
- ? Sontara Organo Industries
- ? Tata Chemicals Ltd
- ? TOSOH CORPORATION
- ? Triveni Interchem Private Limited
- ? Verni Gas Corporation

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