

Hydrogen Bromide Market Growth Analysis - Market Size, Share, Forecast Trends and Outlook Report (2025-2034)

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Report description:

The global hydrogen bromide market was valued at USD 4.90 Billion in 2024. It is expected to grow at a CAGR of 8.00% from 2025 to 2034, reaching approximately USD 10.58 Billion by 2034.

Growing End Use Applications is Aiding the Market Growth of Hydrogen Bromide

Hydrogen bromide (HBr) is used as a catalyst in the production of purified terephthalic acid (TPA), inorganic and organic bromine compounds, and bromides of zinc, sodium, and calcium. In 2017, hydrogen bromide (HBr) consumption for TPA accounted for nearly 6% of the global consumption of bromine-based compounds. The TPA produced is further utilised in the production of polyethylene terephthalate (PET), which is finally used for packaging application and in fibres.

Global Hydrogen Bromide Market to Witness Rapid Expansion in Developing Regions

The global hydrogen bromide industry is expected to be dominated by the Asia Pacific region. The Asia Pacific is one of the leading markets for bromine. The growing demand for bromine in countries like China, Japan, and India are expected to aid the growth of the Asia Pacific market for hydrogen bromide.

Hydrogen Bromide: Market Segmentation

Hydrogen bromide is a colourless gas with the formula HBr. This diatomic molecular compound is composed of hydrogen and bromine atoms. It has an acrid odour and is very soluble in water. Industrially, hydrogen bromide is prepared by mixing hydrogen and bromine at temperatures ranging between 200 and 400 C. The reaction takes place in the presence of a catalyst, namely, platinum or asbestos. However, this chemical can be synthesised by a variety of methods. It is an important reagent that is used in the preparation of several inorganic and organic bromine compounds.

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On the basis of form, the market is bifurcated into:

- Gas
- Liquid

Based on application, the industry can be segmented into:

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

Based on end use, the industry has been categorised into:

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

The regional markets for the product include:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Thriving Electronics Industry to Bolster the Growth of the Hydrogen Bromide Market

The growing utilisation of hydrogen bromide in flame retardants and etching process of polysilicon wafers are driving the growth of the industry. The brominated flame retardants are extensively used in insulation and fabrication of electronic components. The plasma etching process is used to manufacture chips for semiconductors , especially in the electronics industry. Thus, the thriving electronics sector is boosting the market growth.

The growth will be higher in the developing regions owing to the rising construction activities, escalating disposable incomes, and growing sales of electronics. China is expected to be the dominant market for bromine in the Asia Pacific region due to the increasing demand for brominated flame retardants.

Hydrogen bromide has been in focus to produce utility-scale flow-type batteries. These batteries are included under the category of membrane-less flow batteries having high-power density. Currently, flow batteries are used as a reliable energy storage

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solution in various industrial units globally. Thus, the growing use of hydrogen bromide in flow batteries presents a significant opportunity for the market expansion in the coming years.

Key Industry Players in the Global Hydrogen Bromide Market

The report gives a detailed analysis of the following key players in the global hydrogen bromide market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Showa Denko K.K.
- Albemarle Corporation
- Air Liquide USA LLC
- Verni Group
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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