

Global Silicon Hexahydride Market Growth 2024-2030

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Abstracts

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Silicon hexahydride is a toxic compound with the molecular formula Si_2H_6 that is gaseous at room temperature. Its properties are very similar to those of ethane, and both are colorless and flammable gases, but its silicon-silicon bond is weaker than the carbon-carbon bond of ethane, so it is less stable than ethane. Disilanes are generally a good source of hydrogen, which can be obtained by simple chemical reactions. In addition, it can also be used to prepare pure silicon by thin film deposition, which is one of the important special electronic grade gases in the semiconductor industry.

The global Silicon Hexahydride market size is projected to grow from US\$ 219.4 million in 2023 to US\$ 476.7 million in 2030; it is expected to grow at a CAGR of 11.7% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Hexahydride Industry Forecast" looks at past sales and reviews total world Silicon Hexahydride sales in 2023, providing a comprehensive analysis by region and market sector of projected Silicon Hexahydride sales for 2024 through 2030. With Silicon Hexahydride sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Hexahydride industry.

This Insight Report provides a comprehensive analysis of the global Silicon Hexahydride landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon Hexahydride portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Hexahydride market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Hexahydride and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon Hexahydride.

Rising demand for smartphones, tablets, and other electronic devices is driving the growth of the semiconductor industry, which in turn drives the demand for disilane. Development of new manufacturing processes and applications of disilane, such as high-purity silicon for solar cells and silicon-based nanoparticles for biomedical applications, is likely to drive market growth over the next few years. Growing focus on sustainable and environmentally friendly manufacturing processes is likely to impact the disilane market. Companies are exploring alternative sources of silicon, such as recycling silicon wafers, to reduce the environmental impact of the semiconductor industry. Growing demand for renewable energy sources such as solar energy is driving the demand for high-purity silicon for solar cells, which in turn drives the demand for disilane.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Hexahydride market by product type, application, key manufacturers and key regions and countries.

Segmentation by type

Above 99.998%

Below 99.998%

Segmentation by application

Semiconductor

Solar

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Mitsui Chemicals

Air Liquide

Taiwan Speciality Chemicals Corporation

SK Materials

Matheson

SIAD

REC Silicon

Anhui Argosun

Linde Gas

Gelest

Voltaix

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Hexahydride market?

What factors are driving Silicon Hexahydride market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon Hexahydride market opportunities vary by end market size?

How does Silicon Hexahydride break out type, application?

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