

Global SiH₄ Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global SiH₄ market size was valued at US\$ 1142 million in 2025 and is forecast to a readjusted size of US\$ 6777 million by 2032 with a CAGR of 29.3% during review period.

Silicon tetrahydride (SiH₄) ? most commonly known as silane, monosilane, silicilane, is a colorless, flammable gas that belongs to the group of silanes. It is a highly reactive compound that is used in various industrial applications, including semiconductor manufacturing, solar cells, display panel and battery silicon anode material.

SiH₄ is produced by the reaction of silicon with hydrogen gas in the presence of a catalyst. The resulting gas is purified by distillation to remove any impurities and stored in high-pressure cylinders for transportation and use.

Key Properties:

Molecular formula: SiH₄

Appearance: Colorless gas

Odor: Pungent smell (similar to hydrogen sulfide)

Boiling point: -112°C (-170°F)

Melting point: -185°C (-301°F)

Density: Lighter than air

Flammability: Highly pyrophoric, meaning it can spontaneously ignite in air

The global top five monosilane manufacturers include REC Silicon, Air Liquide, Linde, Inner Mongolia Xinyang Technology and CNS, with a total market share of about 47%, of which the largest producer is REC Silicon, with a market share of over 12.89%. China is the most important monosilane consumer market in the world, with a market share of more than 74%. In terms of type, the market share of purity above 6N exceeds 90%. In the application field, solar cell and battery silicon anode material account for about 47% and 35% of the market separately. With the rapid development of silicon-based negative electrode materials in the future, it is expected that the use of monosilane (SiH₄) in this field will occupy the largest share.

This report is a detailed and comprehensive analysis for global SiH₄ market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global SiH₄ market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global SiH₄ market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global SiH₄ market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global SiH₄ market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for SiH₄

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global SiH₄ market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include REC Silicon, SK Materials, OCI Holding, Linde, Air Liquide, Taiyo Nippon Sanso, Mitsui Chemicals, SIAD, Jing He Science, Henan Silane Technology Development, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

SiH₄ market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Purity ≥6N

Purity ≥99.9999%N

Market segment by Application

Semiconductor Fabrication

Solar Cell

Display Panel

Battery Silicon Anode Material

Major players covered

REC Silicon

SK Materials

OCI Holding

Linde

Air Liquide

Taiyo Nippon Sanso

Mitsui Chemicals

SIAD

Jing He Science

Henan Silane Technology Development

Inner Mongolia Xingyang Technology

CNS

Suzhou Jinhong Gas

Chengdu Taiyu Industrial Gases

Ace Gases Sdn Bhd (AGSB)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe SiH4 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiH4, with price, sales quantity, revenue, and global market share of SiH4 from 2021 to 2026.

Chapter 3, the SiH4 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiH4 breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and SiH4 market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of SiH4.

Chapter 14 and 15, to describe SiH4 sales channel, distributors, customers, research

findings and conclusion.

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