

# Global Monosilane Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Monosilane market size will reach 618.35 Million USD in 2025 and is projected to reach 1,153.80 Million USD by 2032, with a CAGR of 9.32% (2025-2032). Notably, the China Monosilane market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Monosilane is a compound composed of one silicon atom and four hydrogen atoms, with the chemical formula  $\text{SiH}_4$ . It is a colorless, flammable gas that is known for its pyrophoric properties, meaning it can ignite spontaneously in the presence of air. Monosilane is primarily used in the semiconductor industry as a precursor for depositing silicon films, specifically in the production of thin-film transistors and solar cells. It acts as a source of pure silicon in the chemical vapor deposition (CVD) process, where it undergoes thermal decomposition to deposit a thin layer of silicon on substrates. Monosilane offers advantages such as high purity, excellent film uniformity, and low deposition temperatures, making it suitable for various semiconductor applications. However, due to its pyrophoric nature, handling and storage of monosilane require special precautions to ensure safety and prevent accidental ignition.

The major global manufacturers of Monosilane include REC Silicon, SK Materials, Linde, Air Liquide, Taiyo Nippon Sanso, Jing He Science, Mitsui Chemicals, SIAD, Inner Mongolia Xingyang Technology, Henan Silane Technology Development, CNS, Suzhou

Jinhong Gas, Chengdu Taiyu Industrial Gases, Ace Gases Sdn Bhd (AGSB), etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Monosilane. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Monosilane market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Monosilane market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Monosilane industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Monosilane Include:

REC Silicon

SK Materials

Linde

Air Liquide

Taiyo Nippon Sanso

Jing He Science

Mitsui Chemicals

SIAD

Inner Mongolia Xingyang Technology

Henan Silane Technology Development

CNS

Suzhou Jinhong Gas

Chengdu Taiyu Industrial Gases

Ace Gases Sdn Bhd (AGSB)

Monosilane Product Segment Include:

?6N

?6N

Monosilane Product Application Include:

Semiconductor Fabrication

Solar Cell

Display Panel

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