

# Global Monosilane Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Monosilane market size was valued at USD 461.2 million in 2023 and is forecast to a readjusted size of USD 891.7 million by 2030 with a CAGR of 9.9% during review period.

Monosilane, also known as silane gas ( $\text{SiH}_4$ ), 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, and fiber optics.

Monosilane 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.

The global top five monosilane manufacturers include REC Silicon, SK Materials, Linde Group, Air Liquide, Mitsui Chemicals, with a total market share of about 50%, of which the largest producer is REC Silicon, with a market share of over 17%. Asia-Pacific is the most important monosilane consumer market in the world, with a market share of more than 70%. In terms of type, the market share of purity above 6N exceeds 90%. In the application field, both photovoltaics and semiconductors account for about 40% of the market.

The Global Info Research report includes an overview of the development of the Monosilane industry chain, the market status of Semiconductor Fabrication (?6N,

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