

# Trichlorosilane (CAS 10025-78-2) Market Research Report 2025

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## Abstracts

Trichlorosilane (CAS 10025-78-2) Market Research Report 2025 presents comprehensive data on Trichlorosilane markets globally and regionally (Europe, Asia, North America etc.)

The report includes Trichlorosilane description, covers its application areas and related patterns. It overviews Trichlorosilane market, names Trichlorosilane producers and indicates its suppliers.

Besides, the report provides Trichlorosilane prices in regional markets.

In addition to the above the report determines Trichlorosilane consumers in the market.

BAC Reports offers its clients in-depth market research of chemical industry products on the global and regional markets (North & Latin America, Asia Pacific, European Union, Russia and CIS).

We can analyze the following elements for each chemical product in any country or region:

capacities and production

consumption volume and structure

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existing technologies

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market news digest

market forecast.

Trichlorosilane (CAS 10025-78-2) Market Research Report 2025 can feature:

market condition and estimations, market forecast

chemical product ranges, trademarks, analogous products, application areas

regional and global producers, consumers and traders (including contact details).

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\*Please note that Trichlorosilane (CAS 10025-78-2) Market Research Report 2025 is a half ready publication and contents are subject to change. It only requires updating with the help of new data that are constantly retrieved from Publisher's databases and other sources. This updating process takes 5-7 business days after order is placed. Thus, our clients always obtain a revised and updated version of each report. Please also note that we do not charge for such an updating procedure. BAC Reports has information for more than 25,000 different chemicals available but it is impossible to have all reports updated immediately. That is why it takes 5-7 days to update a report after an order is received.

## About

Product Name:	Trichlorosilane
Synonyms:	Silicochloroform Trichloromonosilane Silyl trichloride Trichlorosilane
CAS#:	10025-78-2
Formula:	Cl <sub>3</sub> HSi
Molecular Weight:	135.45
Appearance:	A colorless fuming liquid with a pungent odor.
Usage:	In manufacture of transistors.

Trichlorosilane (Trichlorosilyl, Silicochloroform, Silane, trichloro-, Trichloromonosilane, silane, trichloro) is an inorganic compound with the molecular formula HSiCl<sub>3</sub>. Trichlorosilane is a colorless volatile liquid with an acrid smell of hydrogen chloride. The liquid with the molecular weight 134.44 dissolves in benzene, carbon disulfide, chloroform, carbon tetrachloride. The boiling point of trichlorosilane is 32-34 °C. Trichlorosilane is processed by the reaction between powdered silicon with blowing hydrogen chloride at 300°C.

Trichlorosilane is characterized as highly flammable, harmful and corrosive compound. The product causes discomfort and/or pain in eyes, tearing and blinking. Brief contact of trichlorosilane with skin will produce itching, discomfort, redness, ulceration or possible swelling. Moreover, the product cause serious burns, swelling or pain in the mouth, burns of throat, esophagus, and stomach. Nausea, vomiting, diarrhea, dizziness, faintness, thirst, and coma are also amongst the potential side effects of trichlorosilane. Inhalation of low vapor concentrations of the product will produce excess sputum, runny nose, difficulty with breathing, irritation of nose, throat and chest. Higher concentrations of trichlorosilane may cause the injury of the nasal passages. Repeated contact will cause nose and gums to bleed, and will discolor and erode the teeth.

Trichlorosilane is utilized in the manufacture of organosilicon compounds as a raw material and/or intermediate. Furthermore, the product is used in the processing of silicone polymers and resins; silicon for the semiconductor industry. Trichlorosilane is widely used in the synthesis of silicon-containing organic compounds because of a high reactivity and wide availability of trichlorosilane.

Trichlorosilane market is covered in the study Trichlorosilane (CAS 10025-78-2) Market Research Report 2025. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks trichlorosilane market situation, names manufacturers, suppliers as well as users. The report also provides current trichlorosilane prices in the market.

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