

# Global Silicon Tetrachloride Market Outlook 2017-2022

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## Abstracts

Silicon tetrachloride is the inorganic compound with the formula  $\text{SiCl}_4$ . It is a colourless volatile liquid that fumes in air. It is used to produce high purity silicon and silica for commercial applications.

Silicon tetrachloride is used as an intermediate in the manufacture of polysilicon, a hyper pure form of silicon, since it has a boiling point convenient for purification by repeated fractional distillation. It is reduced to trichlorosilane ( $\text{HSiCl}_3$ ) by hydrogen gas in a hydrogenation reactor, and either directly used in the Siemens process or further reduced to silane ( $\text{SiH}_4$ ) and injected into a fluidized bed reactor. Silicon tetrachloride reappears in both these two processes as a by-product and is recycled in the hydrogenation reactor. The produced polysilicon is used as wafers in large amounts by the photovoltaic industry for conventional solar cells made of crystalline silicon and also by the semiconductor industry.

The report covers forecast and analysis for the silicon tetrachloride market on a global and regional level. The study provides historic data of 2012-2016 along with a forecast from 2017 to 2022 based on both volumes and revenue. The study includes drivers and restraints for the silicon tetrachloride market along with the impact they have on the demand over the forecast period. Additionally, the report includes the study of opportunities available in the silicon tetrachloride market on a global level.

The report has been prepared based on the synthesis, analysis, and interpretation of information about the global silicon tetrachloride market collected from specialized sources. The competitive landscape section of the report provides a clear insight into the market share analysis of key industry players. Company overview, financial overview, product portfolio, new project launched, recent development analysis are the parameters included in the profile.

The study provides a decisive view on the silicon tetrachloride market by segmenting the market based on applications. All the application segments have been analyzed based on present and future trends and the market is estimated from 2017 to 2022.

#### Key Applications

Chemical

Semiconductor

Photovoltaic

Optical Fiber

#### Key Regions

North America

Europe

Asia Pacific

#### Key Vendors

Dow Corning

Momentive

Hemlock Semiconductor

Air Products

Evonik

Tokuyama

Linde

Praxair Technology

Shandong Xinlong

Hubei Jingxing

GRINM Electro-optic

Inner Mongolia Dakang

China Silicon Corporation

GCL-Poly

Tangshan Sunfar

#### Key Questions Answered in this Report

What will the market size be in 2022?

What are the key factors driving the global silicon tetrachloride market?

What are the challenges to market growth?

Who are the key players in the silicon tetrachloride market?

What are the market opportunities and threats faced by the key players?

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