



## Cylinder Gas China best price factory SiCl<sub>4</sub> Silicon Tetrachloride

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: SiCl<sub>4</sub>
- Minimum Order Quantity: 1kg
- Price: US \$500/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year



### Product Specification

- Product Name: Silicon Tetrachloride
- Purity: 99.99%
- Boiling Point: -104°C
- Model No.: Silicon Tetrachloride
- Specification: 40L, 47L, 50L
- Trademark: CMC
- Origin: China
- HS Code: 2812190091
- Supply Ability: 1000t/Year
- CAS No.: 10026-04-7
- Formula: SiCl<sub>4</sub>
- EINECS: 10026-04-7
- Constituent: Industrial Pure Air
- Grade Standard: Industrial Grade
- Melting Point: -169°C



### More Images



## Product Description

### Product Description

Silicon tetrachloride, also known as  $\text{SiCl}_4$ , is a chemical compound composed of one silicon atom bonded to four chlorine atoms. Here are some key points about silicon tetrachloride:

Chemical Formula:  $\text{SiCl}_4$

Molecular Weight: 169.9 g/mol

Structure: Silicon tetrachloride has a tetrahedral molecular geometry, with the silicon atom at the center and four chlorine atoms arranged around it.

Physical Properties: Silicon tetrachloride is a colorless liquid at room temperature. It has a strong, pungent odor and is highly volatile.

Production: Silicon tetrachloride is primarily produced by the reaction of silicon with chlorine gas at high temperatures. It can also be obtained as a byproduct in the production of silicon metal or as a result of certain chemical reactions involving silicon compounds.

Chemical Reactivity: Silicon tetrachloride is highly reactive and readily reacts with water to produce hydrochloric acid and silica. It reacts with many other substances, including alcohols and amines, to form various silicon-containing compounds.

Applications: Silicon tetrachloride is used in several industrial processes. It is a precursor in the production of silicon-based materials, such as silicon metal, silicones, and silicon wafers used in the semiconductor industry. It is also used in the production of fumed silica, a fine particulate form of silicon dioxide, which finds applications as a filler, thickening agent, and in various coatings and adhesives.

Safety Considerations: Silicon tetrachloride is a corrosive and toxic substance. It can cause severe burns upon contact with the skin or eyes and can release toxic chlorine gas when exposed to moisture. Proper safety precautions, including the use of protective equipment and handling in well-ventilated areas, should be followed.

Storage and Handling: Silicon tetrachloride is typically stored and handled in sealed containers to prevent exposure to air and moisture. It should be stored away from incompatible substances and handled with care due to its reactivity and toxicity.

Environmental Impact: Silicon tetrachloride can have adverse effects on the environment if released without proper treatment or containment. It is important to handle and dispose of it in accordance with local regulations and best practices to minimize its impact.

### Specifications

#### CERTIFICATE OF ANALYSIS

Product Name: Silicon Tetrachloride (STC)

Inspection Item	Inspection Result
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Product Appearance	Colorless Clear Liquid
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HCL%	-----
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$\text{SiH}_2\text{Cl}_2\%$	-----
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$\text{SiHCl}_3\%$	<0.1
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$\text{SiCl}_4\%$	>99.8
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High Boiling%	-----
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Al	<0.5ppm
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Fe	<0.5ppm
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Ti	<0.5ppm
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Exogenous Impurities	-----
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### Detailed

### Photos



## Company Profile

ShangHai CMC chemical Co.,Ltd. is staffed by trained personnel, combine many years experience in Gas industry .We supply cylinder gas, electronic gas, etc ., and the gas holder, panel, valves and fittings and other equipment, parts and engineering services to our customers in China and worldwide; The products are involved in various industrial fields, such as semiconductor chip, solar cell, LED, TFT-LCD, optical fiber, glass, laser, medicine , etc., Our mission is to partner with our global customers to provide support, solutions and quality products that are innovative, reliable, and safe. Our products mainly include: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.



## Certifications





## Workshop Display:



Monitor



Laboratory



Equipment

Zone of rectification



Gas filling



Equipment



## Shipping Methods





 **Shanghai Kemike Chemical Co.,Ltd**

 +86 18762990415

 [williamchen@cmc-chemical.com](mailto:williamchen@cmc-chemical.com)

 [gascylindertank.com](http://gascylindertank.com)