



Cylinder Gas China best price factory SiCl₄ Silicon Tetrachloride

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: SiCl₄
- 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: SiCl₄
- 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 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: 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





The image displays three identical copies of an ISO 9001:2015 Certificate of Registration, each enclosed in a gold-colored frame. The certificates are issued to Wuxi Aicozon New Electronic Materials Co., Ltd. (Wuxi Aicozon New Electronic Materials Co., Ltd.) for its Quality Management System. The scope of certification includes the manufacture and sales of Triphenyl Calcium, Triphenyl Sodium, and Triphenyl Aluminum, Sales of Dangerous Chemicals, and the Sales of Catalysts. The certificate is signed by Hilbrand and features a large red circular seal. The certificate number is 19AC00012015.

Workshop Display:



Monitor



Laboratory



Equipment

Zone of rectification



Gas filling



Equipment



Shipping Methods





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