



Cylinder Gas Industrial Gas China Factory Best Price Silicon Tetrachloride SiCl₄

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: SiCl₄
- Minimum Order Quantity: 10kg
- 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
- Boiling Point: -104°C
- Melting Point: -169°C
- Purity: 99.99%
- Transport Package: 40L, 47L, 50L
- 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



More Images



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Product Description

Product Description

Silicon tetrachloride (SiCl₄) is a chemical compound composed of one silicon atom bonded to four chlorine atoms. It is a volatile liquid at room temperature and pressure. Here are some key points about silicon tetrachloride:

Chemical Composition: Silicon tetrachloride consists of one silicon (Si) atom bonded to four chlorine (Cl) atoms. Its chemical formula is SiCl₄.

Properties: Silicon tetrachloride is a colorless liquid with a strong, pungent odor. It has a boiling point of 57.6 degrees Celsius (135.7 degrees Fahrenheit) and a melting point of -68.8 degrees Celsius (-91.8 degrees Fahrenheit). It is highly reactive and readily hydrolyzes in the presence of moisture, forming silicic acid (Si(OH)₄) and hydrogen chloride (HCl).

Production: Silicon tetrachloride is commonly produced through the reaction of silicon dioxide (SiO₂) with carbon and chlorine gas:



This reaction occurs at high temperatures in the presence of a carbon-based reducing agent, such as carbon or coke.

Uses: Silicon tetrachloride has various industrial applications:

Silicon Production: It is a crucial precursor in the production of elemental silicon. Silicon tetrachloride is reacted with a reducing agent, such as magnesium, to obtain purified silicon in the form of crystalline or amorphous silicon.

Chemical Synthesis: Silicon tetrachloride is used as a starting material or intermediate in the synthesis of various silicon compounds, including silicones, silanes, and silicon carbide.

Optical Fiber Manufacturing: It is used in the production of high-purity silica glass, which is a key component in optical fibers for telecommunications.

Water Repellents: Silicon tetrachloride is used as a water-repellent treatment for fabrics, paper, and other materials.

Catalysts: It can be employed as a catalyst in certain chemical reactions, particularly in the production of polymers.

Safety Considerations: Silicon tetrachloride is toxic and corrosive. It can cause severe skin burns and eye damage upon contact. Inhalation of its vapors or fumes can be harmful to the respiratory system. Additionally, silicon tetrachloride reacts violently with water, releasing hydrogen chloride gas, which is highly corrosive and toxic. Proper safety precautions, such as the use of protective equipment and appropriate handling procedures, should be followed when working with silicon tetrachloride.

It's important to handle silicon tetrachloride with care and adhere to safety measures to mitigate potential risks associated with its corrosiveness and reactivity.

Basic Info.

Model No:	SiCl ₄	Transport Package	ISO Tank
Specification	Standard	Trademark	CMC
Origin	Suzhou, China	HS Code	2812190091
Production Capacity	1000t/Year		

Specification:

CERTIFICATE OF ANALYSIS

Product Name: Silicon Tetrachloride (STC)

Inspection Item	Inspection Result
Product Appearance	Colorless Clear Liquid
HCL%	-----
SiH ₂ Cl ₂ %	-----
SiHCl ₃ %	<0.1
SiCl ₄ %	>99.8
High Boiling%	-----
Al	<0.5ppm
Fe	<0.5ppm
Ti	<0.5ppm
Exogenous Impurities	-----

Detailed Photos



SiCl4



Company Profile

About us



SiCl ₄	NH ₃	NH ₃	CH ₃ F	SiH ₄	Kr	H ₂ S	WF ₆	F ₆ +Cl ₂
4MS	C ₃ F ₈	C ₃ F ₈	TEOS	CH ₄	PH ₃	SF ₆	C ₂	HCl+Ne
CF ₄	C ₄ F ₈	SiH ₂						TMB+H ₂
SiF ₄	C ₃ H ₈	Cl ₂						He +As
BBr ₃	C ₃ H ₆	DCE						Ge+Se
POCl ₃	N ₂	SO ₂						D+B
BCl ₃	D ₂	CO ₂						CO+NO
SiHCl ₃	CH ₂ F ₂	HF						Ar+O ₂
TMAI	DMZn	DEZn						Xe+NO
			AsH ₃	C ₂ H ₄	C ₂ H ₂	HBr	COS	
			GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄	



Shanghai Kemike 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: H₂, O₂, N₂, Ar, CO₂, propane, acetylene, helium, laser mixed gas, SiH₄, SiH₂Cl₂, SiHCl₃, SiCl₄, NH₃, CF₄, NF₃, SF₆, HCL, N₂O, doping mixed gas (TMB, PH₃, B₂H₆) and other electronic gases.

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