



China Supply Best Price High Purity Industrial 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
- Boiling Point: -104°C
- Melting Point: -169°C
- Appearance: Colorless
- 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



Product Description

Silicon tetrachloride, commonly referred to as SiCl₄, is a chemical compound composed of one silicon atom bonded to four chlorine atoms. Here are some key points about silicon tetrachloride:

Chemical Formula: SiCl₄

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.

Chemical Reactivity: Silicon tetrachloride is highly reactive and readily reacts with water to form hydrochloric acid and silicic acid. It is also reactive with alcohols, amines, and other nucleophilic compounds.

Production: Silicon tetrachloride is primarily produced by the reaction of silicon dioxide (silica) with carbon and chlorine at high temperatures. It is also obtained as a byproduct in the production of silicon metal and silicon wafers.

Applications: Silicon tetrachloride has several industrial applications. It is commonly used as a precursor in the production of silicon-based materials, such as silicones, silanes, and high-purity silicon. It is also used in the manufacturing of optical fibers, as a catalyst in certain chemical reactions, and as a starting material for the synthesis of various organosilicon compounds.

Safety Considerations: Silicon tetrachloride is corrosive, toxic, and can cause severe burns upon contact with the skin, eyes, or mucous membranes. It should be handled with appropriate safety precautions, including the use of protective equipment and proper ventilation.

Environmental Impact: Silicon tetrachloride can be harmful to the environment if released without proper containment or treatment. It is important to follow appropriate waste management practices to prevent its release into the environment.

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% -----

SiH₂Cl₂% -----

SiHCl₃% <0.1

SiCl₄% >99.8

High Boiling% -----

Al <0.5ppm

Fe <0.5ppm

Ti <0.5ppm

Exogenous Impurities -----

Detailed Photos







Company Profile

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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