



Electronic Devices Semiconductor Industry Production Usage Sihcl3 Trichlorosilane (TCS)

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Sihcl3
- Minimum Order Quantity: 1kg
- Price: US \$15/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 30 days
- Payment Terms: L/C, T/T
- Supply Ability: 5000kg/month



Product Specification

- Product Name: Trichlorosilane Gas
- Purity: 99.99%
- Transport: By Sea
- Origin: China
- Transport Package: Tanker
- Specification: Y-Cylinder
- Trademark: CMC
- Origin: China
- HS Code: 2812190091
- Supply Ability: 500ton/Month
- CAS No.: 10025-78-2
- Formula: Sihcl3
- EINECS: 7783-82-6
- Constituent: Industrial Pure Air
- Grade Standard: Industrial Grade



More Images



Product Description

Product Description

SiHCl₃ refers to trichlorosilane, which is a chemical compound composed of one silicon atom bonded to three chlorine atoms and one hydrogen atom. Here are some key points about SiHCl₃:

Chemical Formula: SiHCl₃

Molecular Weight: 135.4 g/mol

Structure: Trichlorosilane has a tetrahedral molecular geometry, with the silicon atom at the center and three chlorine atoms and one hydrogen atom arranged around it.

Physical Properties: Trichlorosilane is a colorless liquid at room temperature. It has a pungent odor and is highly volatile.

Production: Trichlorosilane is primarily produced by the reaction of metallurgical-grade silicon with hydrogen chloride gas. It is an intermediate product in the production of high-purity silicon for electronics and solar cell applications.

Chemical Reactivity: Trichlorosilane is reactive and can undergo various chemical reactions. It can react with water to produce hydrogen chloride gas and silicic acid. It can also react with other compounds to form silicon-containing products.

Applications: Trichlorosilane is a key precursor in the production of silicon for the electronics and solar industries. It is used to produce high-purity silicon wafers for semiconductor devices and photovoltaic cells. Trichlorosilane is also used in the production of silicones, which have a wide range of applications, including as sealants, adhesives, lubricants, and coatings.

Safety Considerations: Trichlorosilane is a corrosive and toxic substance. It can cause severe burns upon contact with the skin or eyes and can release toxic hydrogen chloride 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: Trichlorosilane 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: Trichlorosilane 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.

Basic Info.

Model No:	SiHCl ₃	Quality	Electron Grade
Transport Package	Y-Cylinder, T-Drum, Tt, Tanker	Specification	20L, 40L, 280L and customizable
Trademark	CMC	Origin	Suzhou, China
HS Code	2812190091	Production Capacity	500ton/Month





Specification:

Trichlorosilane is a silicon precursor for epitaxial silicon-containing thin films, especially for the preparation of starting wafers.

Purity %:	≥99.85
Resistivity:	≥ 300 ohm-cm
Boron:	≤ 0.1 ppba silicon
Total Carbon:	≤ 5 ppma
Iron:	≤ 5 ppba
Other Chlorosilane :	≤ 500 ppm
Cylinder State @ 21.1°C :	Liquid
Flammable Limits In Air :	7-83%
Auto Ignition Temperature (°C):	182
Molecular Weight (g/mol):	135.45
Specific gravity (air =1):	4.67
Critical Temperature (°C):	242.5

Company Profile

About us



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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