

Cylinder Gas China best price factory Sicl4 Silicon Tetrachloride

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 TetrachlorideSpecification: 40L, 47L, 50L

• Trademark: CMC

Origin: China
 HS Code: 2812190091
 Supply Ability: 1000t/Year
 CAS No.: 10026-04-7
 Formula: Sicl4

Constituent: Industrial Pure AirGrade Standard: Industrial Grade

10026-04-7

Melting Point: -169°C



More Images

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Product Description

Product Description

Silicon tetrachloride, also known 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 q/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
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



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: 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.



Certifications



Workshop Display:



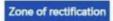




Laboratory



Equipment





Gas filling



Equipment



Shipping Methods





Shanghai Kemike Chemical Co.,Ltd

+86 18762990415

williamchen@cmc-chemical.com

gascylindertank.com