China CMC

COA

sih4

Cylinder/Tank

# China high purity 99.9999% High Purity Cylinder Sih4 Gas Silane

## **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 1kg
- Price: US \$45/kg
- Packaging Details:
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000kg/month



### **Product Specification**

<ul> <li>Product Name:</li> </ul>	Silane
• Valve:	Diss632
<ul> <li>Boiling Point:</li> </ul>	-112 ºC
Melting Point:	-185 ºC
Cylinder Pressure:	12.5MPa/15MPa/20MPa
Cylinder Standard:	GB/ISO/DOT
Transport Package:	Y-Cylinder, T-Drum, T-Cylinder, T-Drum, Tt, Tanker
<ul> <li>Specification:</li> </ul>	20L, 40L, 280L And Customizable
• Trademark:	CMC
Origin:	Suzhou, China
• HS Code:	2812190091
<ul> <li>Supply Ability:</li> </ul>	50000kg/Month
CAS No.:	7803-62-5

Sih4



## More Images

• Formula:



### **Product Description**

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Silane refers to a group of chemical compounds that contain silicon and hydrogen atoms. The most common and simplest form of silane is monosilane (SiH4), which consists of a silicon atom bonded to four hydrogen atoms. Silane is a colorless, flammable gas with a pungent odor. Here are some key points about silane:

Structure: Silane has a tetrahedral structure, with the silicon atom at the center and the four hydrogen atoms surrounding it. The molecular formula for silane is SiH4.

Properties: Silane is highly reactive and can react with oxygen and water. It is pyrophoric, meaning it can ignite spontaneously in the presence of air or oxygen. Silane is also unstable, decomposing at high temperatures.

Production: Silane can be produced through various methods, including the reaction of metallurgical-grade silicon with hydrogen or the hydrolysis of silicon tetrachloride. Industrial-scale production often involves the thermal decomposition of silicon compounds.

Applications: Silane has several applications in different industries:

Semiconductor Industry: Silane is used as a precursor in the production of silicon-based materials, such as silicon wafers and thin-film transistors. It is an important source of silicon for the deposition of silicon films in semiconductor manufacturing.

Chemical Industry: Silane derivatives, such as alkylsilanes and chlorosilanes, are used as coupling agents, adhesion promoters, and surface modifiers in various chemical processes and material formulations.

Solar Energy: Silane is utilized in the production of silicon-based photovoltaic cells, which convert sunlight into electricity. It is used as a precursor gas for the deposition of thin films on solar cell substrates.

Coatings and Sealants: Silane compounds are employed in the formulation of coatings, adhesives, and sealants. They can improve adhesion, durability, and water resistance in various applications.

It's important to handle silane with caution due to its flammability and reactivity. Proper safety measures should be followed when working with silane, including storing it in appropriate containers and using it in well-ventilated areas.

Origin

**Boiling Point** 

Melting Point

Transport Package

**Production Capacity** 

-112 °C

-185 °C

China

47L/440L/ISO Tank

20, 000tons/Year

Basic Info. Model NO. Density Cylinder Pressure Specification HS Code

Sih4 1.34 Kg/M<sup>3</sup> 12.5MPa/15MPa/20MPa 47L/440L/ISO Tank 2931900090

#### Specification:

CAS No.: 7803-62-5 EINECS No.: 232-263-4 UN No.: UN2203 Purity: 99.9999% Dot Class: 2.1 Appearance: Colorless Grade Standard: Electronic Grade

Specification	99.9999%	
Carbon Monoxide	≤ 0.05 ppm	
Carbon Dioxide	≤ 0.05 ppm	
Total chloride	≤ 0.1 ppm	
Methane	≤ 0.05 ppm	
C2-C4	≤ 0.1 ppm	
Nitrogen	≤ 0.5 ppm	
Oxygen	≤ 0.05 ppm	
Moisture	≤ 0.1 ppm	
Silyl Ether	≤ 0.1 ppm	
Methyl Silane	≤ 0.1 ppm	
Disilane	≤ 0.3 ppm	
Hydrogen	≤ 20 ppm	
Aluminum	≤ 0.02 ppba	
Antimony	≤ 0.02 ppba	
Arsenic	≤ 0.02 ppba	
Gallium	≤ 0.02 ppba	
Boron	≤ 0.02 ppba	
Phosphorus	≤ 0.02 ppba	
Iron + Chromium + Nickel + Copper + Zinc $\leq 1$ ppba		

#### **Detailed Photo**



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.

