



China Electronic Grade High Purity 99.9999% 6n Sih4 Cylinder Gas Silane

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: sih4
- Minimum Order Quantity: 1kg
- Price: US \$45/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000kg/month



Product Specification

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



More Images



Product Description

Product Description

Silane (SiH₄) is a chemical compound consisting of one silicon atom bonded to four hydrogen atoms. Here are some key points about silane:

Structure: Silane has a tetrahedral molecular structure, with the silicon atom at the center and the hydrogen atoms positioned around it.

Properties: Silane is a colorless, flammable gas with a pungent odor. It is less dense than air and can form explosive mixtures when combined with air. Silane is highly reactive and can spontaneously ignite in the presence of oxygen.

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

Applications: Silane has several applications in different industries:

Semiconductor Industry: Silane is commonly used as a precursor gas in the deposition of silicon thin films for the manufacturing of semiconductors, such as silicon wafers and integrated circuits.

Solar Energy: Silane is used as a feedstock gas in the production of silicon-based photovoltaic cells, which are used to convert sunlight into electricity.

Chemical Industry: Silane derivatives, such as alkoxysilanes and chlorosilanes, are utilized as coupling agents, cross-linkers, and surface modifiers in various chemical reactions and coatings formulations.

Adhesives and Sealants: Silane-based compounds are used as adhesion promoters in the formulation of adhesives and sealants to enhance bonding between different substrates, such as glass, metal, and plastics.

Gas Chromatography: Silane is used as a carrier gas in gas chromatography, which is a technique used for the separation and analysis of chemical compounds.

It's important to note that silane is highly reactive and requires careful handling due to its flammability and potential for spontaneous ignition.

Safety precautions, such as proper ventilation and handling equipment, should be followed when working with silane.

Basic Info.

Model NO.	SiH ₄	Boiling Point	-112 °C
Density	1.34 Kg/M ³	Melting Point	-185 °C
Cylinder Pressure	12.5MPa/15MPa/20MPa	Transport Package	47L/440L/ISO Tank
Specification	47L/440L/ISO Tank	Origin	China
HS Code	2931900090	Production Capacity	20, 000tons/Year

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	≤ 1 ppba

Detailed Photos







Packaging & Shipping

Cylinder Specifications Contents		
Cylinder Capacity	Valve	Weight
47L	DISS632	10 kgs
440L	DISS632	120 kg

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.


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	



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