



China Cylinder Gas best price 99.9999% SiH₄ High Purity 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

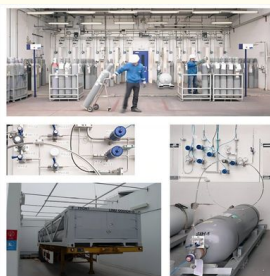


Product Specification

- Product Name: Silane
- Boiling Point: -112 °C
- Density: 1.34 Kg/M³
- 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
- Supply Ability: 20, 000tons/Year
- CAS No.: 7803-62-5
- Formula: SiH₄
- EINECS: 232-263-4
- Constituent: Industrial Pure Air
- Grade Standard: Industrial Grade



More Images



Product Description

Product Description

Silane refers to a group of chemical compounds that consist of silicon and hydrogen atoms. The most common and simple silane compound is monosilane (SiH_4), which is analogous to methane (CH_4) in structure. Silane compounds can have different structures and properties depending on the number and arrangement of silicon and hydrogen atoms.

Here are some key points about silane:

Structure: Silane compounds consist of a silicon atom bonded to hydrogen atoms. The general chemical formula for silanes is $\text{Si}_n\text{H}_{2n+2}$, where "n" represents the number of silicon atoms in the molecule. For example, monosilane (SiH_4) has one silicon atom and four hydrogen atoms.

Properties: Silane compounds are colorless gases at room temperature and pressure. They have a characteristic odor and are highly flammable.

Silane is less dense than air and can form explosive mixtures with air when the concentration is within a certain range.

Production: Silane compounds can be produced through various methods, including the reaction of silicon with hydrogen gas or by the hydrolysis of other silicon-containing compounds. Industrial production of silane often involves the thermal decomposition of silicon tetrachloride (SiCl_4) in the presence of hydrogen gas.

Applications: Silane compounds have a range of applications across different industries:

Semiconductor Industry: Silane gas is used in the production of silicon-based semiconductors and thin-film deposition processes, such as chemical vapor deposition (CVD) and plasma-enhanced CVD (PECVD).

Solar Cells: Silane is used in the manufacture of silicon-based solar cells, where it serves as a precursor for depositing thin films of amorphous silicon or polycrystalline silicon.

Adhesives and Sealants: Silane compounds are used as coupling agents in adhesives and sealants to improve adhesion between different materials, such as glass, metal, and plastics.

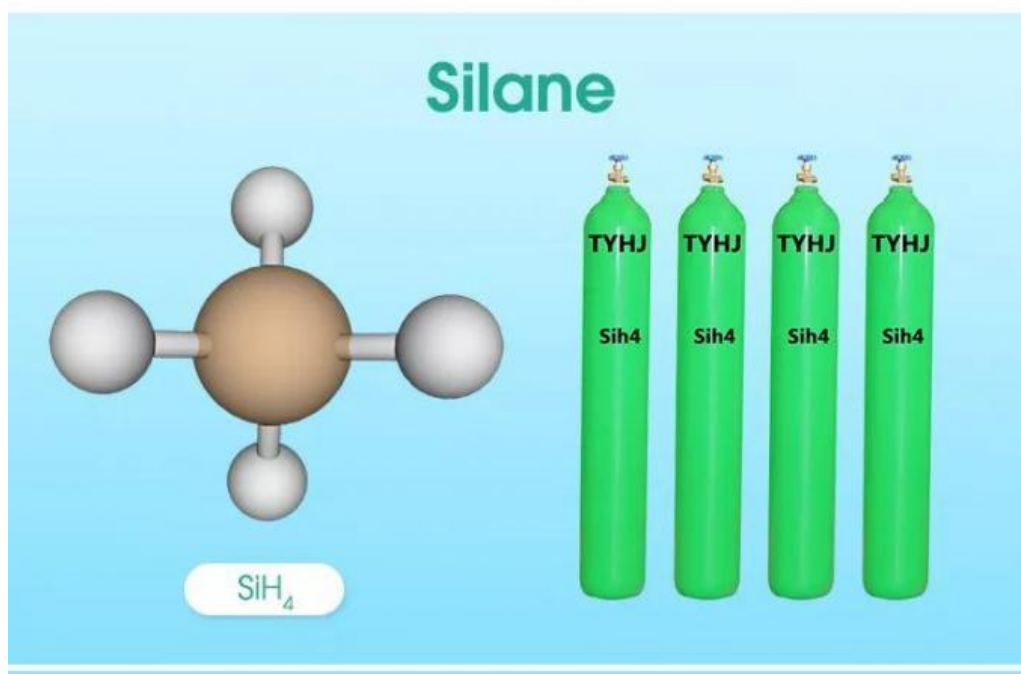
Surface Treatments: Silane compounds are applied as surface treatments to enhance the bonding and durability of coatings, paints, and composites.

Gas Chromatography: Silane is utilized as a carrier gas in gas chromatography, a technique used in analytical chemistry to separate and analyze complex mixtures.

It's important to handle silane compounds with caution due to their flammability and potential reactivity. Proper safety measures should be followed when working with or storing silane.



Product



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 Photo



Packaging & Shipping

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

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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