



## China Good Price High Purity Cylinder Gas Factory Sell sih4 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

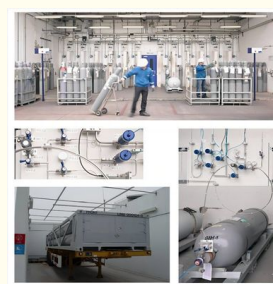


### Product Specification

- Product Name: Silane
- Melting Point: -185 °C
- Appearance: Colorless, Garlic Smell
- Boiling Point: -112 °C
- Cylinder Pressure: 15MPa/20MPa
- Valve: Diss632
- Cylinder Standard: GB/ISO/DOT
- Transport Package: 47L/440L/ISO Tank
- Specification: 47L/440L/ISO Tank
- Trademark: CMC
- Origin: China
- HS Code: 2931900090
- Supply Ability: 20, 000tons/Year
- CAS No.: 7803-62-5
- Formula: Sih4



### More Images



## Product Description

### Product Description

Silane refers to a chemical compound with the formula  $\text{SiH}_4$ , consisting of one silicon atom bonded to four hydrogen atoms. It is the simplest and most common member of the silane family. Here are some key points about silane:

**Structure:** Silane has a tetrahedral structure, with the silicon atom at the center and four hydrogen atoms bonded to it. The molecule is similar in shape to methane ( $\text{CH}_4$ ).

**Properties:** Silane is a colorless, flammable gas with a pungent odor. It is less dense than air and can form explosive mixtures when exposed to air or other oxidizing agents. Silane is highly reactive and can spontaneously ignite in the presence of heat or certain catalysts.

**Production:** Silane can be produced through several methods, including the reaction of metallurgical-grade silicon with hydrogen or the hydrolysis of silicon tetrachloride ( $\text{SiCl}_4$ ). Industrial-scale production of silane involves the reaction of silicon with hydrogen at high temperatures.

**Applications:** Silane has various applications in different industries:

**Semiconductor Industry:** Silane is used as a precursor gas 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 microelectronics.

**Solar Energy:** Silane is utilized in the manufacturing of silicon-based solar cells. It serves as a precursor gas for the deposition of amorphous and polycrystalline silicon layers, which are essential components of solar panels.

**Chemical Industry:** Silane derivatives find applications as coupling agents, adhesion promoters, and surface modifiers in the formulation of coatings, adhesives, and sealants. They can improve the bonding between different materials or enhance the performance of surface treatments.

**Gas Detection:** Silane is also used in gas detection systems as it reacts with metals, such as palladium, to produce a measurable change in electrical conductivity. This property is utilized in gas sensors for detecting the presence of silane gas.

It's important to note that silane is a hazardous and potentially dangerous substance. Proper precautions, including safe handling, storage, and usage practices, should be followed to ensure personal safety and prevent accidents.

#### Basic Info.

Transport Package:	47L/440L/ISO Tank	Melting Point	-185°C
Trademark:	CMC	Boiling Point	-112°C
Specification	100.00%	Production Capacity	20,000tons/Year
Cylinder Pressure	12.5MPa/15MPa/20MPa Valve	Diss632	
Appearance	Colorless, Garlic Smell	Density	1.34 Kg/M3

#### 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

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: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.

SiCl <sub>4</sub>	NH <sub>3</sub>	NH <sub>3</sub>	CH <sub>3</sub> F	SiH <sub>4</sub>	Kr	H <sub>2</sub> S	WF <sub>6</sub>	F <sub>6</sub> +Cl <sub>2</sub>
4MS	C <sub>3</sub> F <sub>8</sub>	C <sub>3</sub> F <sub>8</sub>	TEOS	CH <sub>4</sub>	PH <sub>3</sub>	SF <sub>6</sub>	C <sub>2</sub>	HCl+Ne
CF <sub>4</sub>	C <sub>4</sub> F <sub>8</sub>	SiH <sub>2</sub>						TMB+H <sub>2</sub>
SiF <sub>4</sub>	C <sub>3</sub> H <sub>8</sub>	Cl <sub>2</sub>						He +As
BBr <sub>3</sub>	C <sub>3</sub> H <sub>6</sub>	DCE						Ge+Se
POCl <sub>3</sub>	N <sub>2</sub>	SO <sub>2</sub>						D+B
BCl <sub>3</sub>	D <sub>2</sub>	CO <sub>2</sub>						CO+NO
SiHCl <sub>3</sub>	CH <sub>2</sub> F <sub>2</sub>	HF						Ar+O <sub>2</sub>
TMAI	DMZn	DEZn						Xe+NO
AsH <sub>3</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>2</sub>						
		HBr						
		COS						



 Shanghai Kemike Chemical Co.,Ltd

 +86 18762990415

 williamchen@cmc-chemical.com

 gascylindertank.com