



## China Wholesale Factory Electronic Grade Price Cylinder Gas Sih4 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
- Electron Grade: Electron Grade
- Volume: 470L
- Purity: 100.00%
- Boiling Point(°C): -112 °C
- Transport Package: Y-Cylinder Tube Bundle Container
- Specification: 99.999%/99.9999%
- Origin: China
- Supply Ability: 2000piece/Month
- CAS No.: 7803-62-5
- Formula: Sih4
- EINECS: 232-263-4
- Constituent: Industrial Pure Air
- Grade Standard: Industrial Grade
- Chemical Property: Combustion-Supporting Gas



### More Images



## Product Description

### Product Description

Silane ( $\text{SiH}_4$ ) is a chemical compound consisting of one silicon atom bonded to four hydrogen atoms. Here are some key points about silane:

Chemical Formula:  $\text{SiH}_4$

Molecular Weight: 32.12 g/mol

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

Physical 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.

Chemical Reactivity: Silane is highly reactive and can readily react with oxygen, water, and other substances. It is pyrophoric, meaning it can ignite spontaneously in the presence of air or moisture.

Applications: Silane has various applications across different industries. In the semiconductor industry, it is used as a precursor in the chemical vapor deposition (CVD) process to deposit thin films of silicon onto semiconductor substrates. Silane is also used in the production of solar cells, optical fibers, and certain types of coatings. It can be used as a reducing agent in organic synthesis and as a source of silicon in the synthesis of various silicon-containing compounds.

Safety Considerations: Silane is highly flammable and poses fire and explosion hazards. It is also toxic and can cause chemical burns. Proper safety precautions, including the use of specialized equipment and trained personnel, should be followed when handling and working with silane.

Storage and Handling: Silane is typically stored and transported in specialized containers under controlled conditions to prevent exposure to air and moisture. It is handled with extreme caution due to its reactivity and flammability.

Environmental Impact: Silane is not considered a significant environmental hazard. However, its use and disposal should be in accordance with local regulations and best practices to minimize any potential impact.

Silanes as Functional Groups: Silanes can also refer to a broader class of compounds that contain a silicon atom bonded to organic groups ( $\text{R-SiR}_3$ ). These silane compounds have various applications, including as coupling agents and surface modifiers in materials science and as protective coatings.



#### Essential details

CAS No.:

7803-62-5

MF:

$\text{SiH}_4$

Place of Origin:

Jiangsu, China

Purity:

Other Names:

Silane

EINECS No.:

232-263-4

Grade Standard:

Industrial Grade, Electron Grade

Appearance:

100.00%	Y-Gas
Application:	Brand Name:
Electron Grade , Industrial Grade, Electron Grade, Industrial Grade	HZG
Model Number:	Hazard Class:
SiH4	2.1
Molecular Weight:	UN No:
32.117	2203
Boiling Point(°C):	Product name:
-112 °C	Silane
pureness:	Shelf life:
High	one year
Usage:	CAS:
Widely Used	7803-62-5

## Product Parameters

PRODUCT DISPLAY	
Product Name	Silane
Molecular Formula	SiH4
Einecs No.	232-263-4
Place Of Origin	Jiangsu, China
Purity	99.9999%
Grade	Electron Grade, Industrial Grade
Hazard Class	2.1
Molecular Weight	32.117
Un	2203
Boiling Point(°C)	( -112 °C)

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 <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	Ar+O <sub>2</sub>			
GeH <sub>4</sub>	C <sub>2</sub> H <sub>6</sub>	B <sub>2</sub> H <sub>6</sub>	H <sub>2</sub> Se	GeCl <sub>4</sub>	Xe+NO			

