



China High Quality Factory Price 6n sih4 Industrial 99.999% Cylinder gas Silane

Our Product Introduction

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
- Valve: Diss632
- Appearance: Colorless, Garlic Smell
- Melting Point: -185 °C
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- 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
- Formula: Sih4



More Images



Product Description

Product Description

Silane is a chemical compound that consists of one silicon atom bonded to four hydrogen atoms (SiH_4). Here are some key points about silane:

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

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 certain conditions. Silane is highly reactive and can undergo various chemical reactions.

Production: Silane can be produced through several methods, including the reaction of silicon with hydrogen or the decomposition of silicon-containing compounds. Industrial-scale production typically involves the reaction of metallurgical-grade silicon with hydrogen chloride.

Applications: Silane has various applications in different industries:

Semiconductor Industry: Silane is used as a precursor in the deposition of silicon-based thin films for semiconductor devices. It is an essential gas in processes such as chemical vapor deposition (CVD) and plasma-enhanced CVD (PECVD).

Solar Energy: Silane is utilized in the production of silicon-based photovoltaic cells (solar cells). It serves as a precursor for depositing thin films of amorphous or polycrystalline silicon on solar cell substrates.

Surface Modification: Silane compounds are used as coupling agents and surface modifiers in the formulation of coatings, adhesives, and sealants. They can improve the adhesion and compatibility between different materials.

Chemical Synthesis: Silane can be used as a reducing agent or a precursor for the synthesis of various silicon-containing compounds in the chemical industry.

It's important to note that silane is a hazardous substance due to its flammability and reactivity. Proper handling, storage, and safety measures should be followed when working with silane to ensure the well-being of individuals and prevent accidents.

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	Ar+O ₂	Xe+NO		
GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄				



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