



China Best Price High Purity Cylinder Gas Manufacturers 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
- Valve: Diss632
- Boiling Point: -112 °C
- 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 refers to a group of chemical compounds that consist of silicon (Si) atoms bonded to hydrogen (H) atoms. The most common and simplest silane compound is monosilane (SiH₄), which is a colorless and flammable gas. Silanes are part of the larger class of compounds known as hydrosilanes.

Here are some key points about silane:

Structure: Silanes have a tetrahedral structure, with a silicon atom at the center bonded to four hydrogen atoms. The general formula for silanes is SiH_n, where "n" represents the number of hydrogen atoms.

Synthesis: Silanes can be produced through various methods, including the reaction of silicon metal with hydrogen gas or the hydrolysis of silicon halides. They can also be generated through the reduction of silicon dioxide (SiO₂).

Properties: Silanes are highly reactive and are sensitive to moisture and air. They are pyrophoric, which means they can spontaneously ignite in the presence of oxygen. Silanes are also known for their strong reducing properties.

Applications: Silanes have several industrial applications, including:

Silicon wafer manufacturing: Silane gas is used in the deposition of silicon for the production of semiconductors and solar cells.

Surface treatment: Silanes are used as coupling agents or adhesion promoters to enhance the bonding between different materials. They can improve the adhesion of coatings, paints, and adhesives to various substrates.

Rubber and plastics: Silanes are used as coupling agents to improve the compatibility between inorganic fillers (such as silica) and organic polymers in rubber and plastic products.

Biotechnology: Silanes are used for coating glass surfaces in applications such as DNA microarray technology or as surface modifiers in biomedical devices.

It's important to note that silanes have a wide range of derivatives with varying properties and applications. The specific properties and applications of a silane compound depend on its chemical structure and functional groups attached to the silicon atom.

Basic Info.

Model NO.	SiH ₄	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	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 Photo



Packaging & Shipping

Cylinder Specifications Contents

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

Company

Profile



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



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