China best price Electronic Grade Cylinder Sih4 Gas Silane Gas

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
- Purity: 99.9999%
- Transport: By Sea
- Appearance: Colorless
- Model No.: Silane Gas
- 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
- EINECS: 232-263-4

More Images

Product Description

Product Description

Silane (SiH4) is a chemical compound that consists of one silicon atom bonded to four hydrogen atoms. 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 arranged around it. Its chemical formula is SiH4.

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. Silane is highly reactive and can spontaneously ignite in the presence of oxygen.

Production: Silane can be produced through several methods, including the reaction of metallurgical-grade silicon with hydrogen gas, the hydrolysis of silicon tetrachloride (SiCl4), or the reduction of silicon dioxide (SiO2) with hydrogen.

Applications: Silane has various applications across different industries:

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

Solar Energy: Silane is used in the production of silicon-based solar cells. It serves as a precursor gas for depositing silicon layers and dopants onto solar cell substrates.

Surface Modification: Silane is used as a surface treatment agent to enhance adhesion between materials. It is commonly employed in coatings, adhesives, and sealants to improve bonding with substrates such as glass, metals, and plastics.

Chemical Synthesis: Silane derivatives are utilized as reducing agents, intermediates, or catalysts in various chemical reactions. They can be involved in the synthesis of organosilicon compounds, silicones, and other silicon-containing products.

It's important to note that silane is a hazardous substance and requires careful handling due to its flammability and reactivity. Precautions should be taken to ensure safe storage, transportation, and usage of silane.

Basic Info.

Model NO.	Sih4	Boiling Point	-112 ºC
Density	1.34 Kg/M³	Melting Point	-185 ºC
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.

SiCl4	NH3	NH3	CH3F	SiH4	Kr	H2S	WF6	F6+Cl2
4MS	C3F8	C3F8	TEOS	CH4	PH3	SF6	C2	HCl+Ne
CF4	C4F8	SiH2						TMB+H2
SiF4	C3H8	Cl2						He +As
BBr3	C3H6	DCE						Ge+Se
POCl3	N2	SO2						D+B
BCl3	D2	CO2						CO+NO
SiHCl3	CH2F2	HF	AsH3	C2H4	C2H2	HBr	COS	Ar+O2
TMAl	DMZn	DEZn	GeH4	C2H6	B2H6	H2Se	GeCl4	Xe+NO

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