China Manufacturer Electronical Grade High Purity Cylinder Gas Sih4 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
- DOT Class: 2.1
- Cylinder Standard: DOT/ISO/GB
- Boiling Point(ºC): -112.15
- Density(Lb/FT3): 0.085
- Boiling Point(ºF): -169.85
- 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

More Images

Product Description

Product Description

Silane refers to a group of chemical compounds that contain silicon and hydrogen atoms. The most common and simplest form of silane is monosilane (SiH4). Here are some key points about silane:

Structure: Silane compounds consist of a silicon atom bonded to hydrogen atoms. Monosilane (SiH4) has a tetrahedral structure, with the silicon atom at the center and 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 with air when exposed to certain conditions. Silane is highly reactive and can react with oxygen, water, and other compounds.

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

Applications: Silane has several applications in various industries:

Semiconductor Industry: Silane is used as a precursor in the production of silicon-based materials, such as silicon wafers and thin-film silicon solar cells. It is an important source of silicon for the deposition of amorphous and polycrystalline silicon films.

Chemical Industry: Silane derivatives are used as coupling agents and adhesion promoters in the formulation of coatings, adhesives, and sealants. They can improve the bonding between different materials, such as glass, metal, and plastics.

Electronics Industry: Silane is utilized in the manufacturing of electronic components, such as integrated circuits and flat-panel displays. It is involved in the deposition of silicon-based thin films for insulation and passivation purposes.

Solar Energy: Silane is employed in the production of silicon-based photovoltaic cells, which are used to convert sunlight into electricity.

It's worth noting that silane is a highly reactive and potentially hazardous compound, requiring careful handling and storage due to its flammability and reactivity. Safety precautions should be followed when working with silane to prevent accidents or unwanted reactions.

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 Photos


硅烷SiH4


液化硅烷SiH4

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.

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