



China Electronic Grade Cylinder Gas 99.999% 5n Si₂h₆ Disilane

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Si₂h₆
- Minimum Order Quantity: 1L
- Price: Us \$50000/L
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000L/Year



Product Specification

- Product Name: Disilane
- Purity: 99.999%
- Transport: By Sea
- Model No: Si₂h₆
- Transport Package: 47L/10kg
- Specification: 47L/10kg
- Trademark: CMC
- Origin: China, Suzhou
- HS Code: 2812190091
- Supply Ability: 600t/Year
- CAS No.: 7783-82-6
- Formula: Si₂h₆
- EINECS: 7783-82-6
- Constituent: Industrial Pure Air
- Grade Standard: Electronic Grade



More Images



Product Description

Product Description

Disilane (Si2H6) is an inorganic compound composed of two silicon (Si) atoms bonded to six hydrogen (H) atoms. It is a member of the silane family of compounds and is a silicon analogue of ethane (C2H6). Here are some key points about disilane gas:

Structure and Properties: Disilane consists of two silicon atoms bonded together with six hydrogen atoms. It has a tetrahedral molecular structure. Disilane is a colorless gas with a pungent odor. It is highly reactive and can spontaneously ignite in the presence of air or oxygen.

Synthesis and Production: Disilane can be produced by various methods, including the reaction of silicon powder with hydrogen gas at high temperatures or through the hydrolysis of silicon-derived precursors. It is typically synthesized and used in a controlled environment due to its reactivity and flammability.

Applications:

Semiconductor Industry: Disilane is primarily used as a precursor gas in the production of silicon thin films for the semiconductor industry. It serves as a source of silicon in processes such as chemical vapor deposition (CVD) and atomic layer deposition (ALD), where it is used to deposit high-quality silicon layers on substrates.

Solar Cells: Disilane is employed as a precursor gas in the fabrication of silicon thin-film solar cells. It enables the deposition of amorphous silicon films, which are used to create low-cost and flexible solar cell devices.

Chemical Synthesis: Disilane can be used as a reducing agent or as a source of silicon in various chemical reactions. It finds applications in the synthesis of organosilicon compounds, silicon-based polymers, and other silicon-containing materials.

Safety Considerations: Disilane is highly flammable and can form explosive mixtures with air. It is also toxic and can cause severe burns upon contact with the skin or eyes. Due to its reactivity and hazards, disilane should be handled with extreme caution, and appropriate safety measures, including proper ventilation and personal protective equipment, should be followed.

Disilane gas plays a significant role in the semiconductor industry and the production of silicon-based materials. It is a key component in the manufacturing of advanced electronic devices, solar cells, and other silicon-related applications.

Basic Info.

Model No:	Si2H6	Transport Package	Y-Cylinder
Specification:	47L/10kg	Trademark	CMC
Origin:	Suzhou	HS Code	2812190091
Production Capacity:	Suzhou, China		

Specification:

Contaminants	Specifications
Carbon Dioxide	≤1.0 ppm
Chlorosilanes	≤0.2 ppm
Higher Silanes	≤5.0 ppm
Nitrogen	≤2.0 ppm
Oxygen+Argon	≤1.0 ppm
Silane	≤500.0 ppm
Siloxanes	≤5.0 ppm
THC (as Methane)	≤1.0 ppm
Water	≤1.0 ppm

Detailed Photos





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						Xe+NO
AsH ₃	C ₂ H ₄	C ₂ H ₂	HBr	COS	Ar+O ₂			
GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄	Xe+NO			



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