China Supply Best price 99.9% High Purtiy Hcds Si2cl6 Hexachlorodisilane

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Si2cl6
- Minimum Order Quantity: 1kg
- Price: US $40/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000kg/month

Product Specification

- Model NO.: Hexachlorodisilane
- Model No.: Si2cl6
- Transport: By Sea
- Purity: 99.9%
- Specification: 40L, 200L
- Trademark: CMC
- Origin: China
- HS Code: 2812190091
- Supply Ability: 100t/Year
- CAS No.: 7783-82-6
- Formula: Si2cl6
- EINECS: 7783-82-6
- Constituent: Industrial Pure Air
- Grade Standard: Industrial Grade
- Chemical Property: Poisonous Gases

More Images

Product Description

Product Description

Si2Cl6 gas refers to hexachlorodisilane, an inorganic compound composed of two silicon (Si) atoms bonded with six chlorine (Cl) atoms. Hexachlorodisilane is typically encountered as a volatile liquid, but it can also exist in a gaseous state under specific conditions. Here are some key points about Si2Cl6 gas:

Structure and Properties: Si2Cl6 has a tetrahedral molecular structure, with two silicon atoms at the center and six chlorine atoms surrounding them. It is a reactive and volatile compound. Si2Cl6 has a boiling point of approximately 147 °C (297 °F) and a molecular weight of 268.81 g/mol.

Synthesis and Production: Si2Cl6 can be synthesized by reacting silicon tetrachloride (SiCl4) with silicon powder or elemental silicon (Si) at high temperatures. It can also be obtained by the reaction of silicon with chlorine gas (Cl2). The synthesis process typically occurs in a controlled environment to ensure safety and efficient production.

Applications:

Chemical Synthesis: Si2Cl6 is used as a precursor or starting material in the synthesis of various silicon-based compounds. It is particularly employed in the production of organosilanes, which find applications in areas such as the production of specialty chemicals, coatings, adhesives, and sealants.

Semiconductor Industry: Si2Cl6 is utilized in the fabrication of semiconductors and integrated circuits. It serves as a precursor in chemical vapor deposition (CVD) processes to deposit silicon-containing films, such as silicon carbide (SiC) or silicon nitride (Si3N4). These films are important for insulation, passivation, or dielectric purposes in semiconductor devices.

Safety Considerations: Si2Cl6 is a reactive and volatile compound. It is important to handle it with caution and follow appropriate safety procedures when working with Si2Cl6 gas or any other hazardous chemicals. Safety measures, including proper ventilation, personal protective equipment, and adherence to handling guidelines, should be followed to ensure safe usage.

Si2Cl6 gas, or hexachlorodisilane, plays a significant role as a precursor in the production of silicon-containing compounds and semiconductor materials. Its reactivity and versatility make it valuable in various industrial applications. However, proper safety protocols should be observed to mitigate risks associated with its usage.

Basic Info.

Model NO.	Si2Cl6	Grade Standard	Electron Grade
Transport Package	Cylinder, Canister	Specification	40L, 200L
Trademark	CMC	Origin	Suzhou, China
HS Code	2812190091	Production Capacity	100t/Year

Specifications:

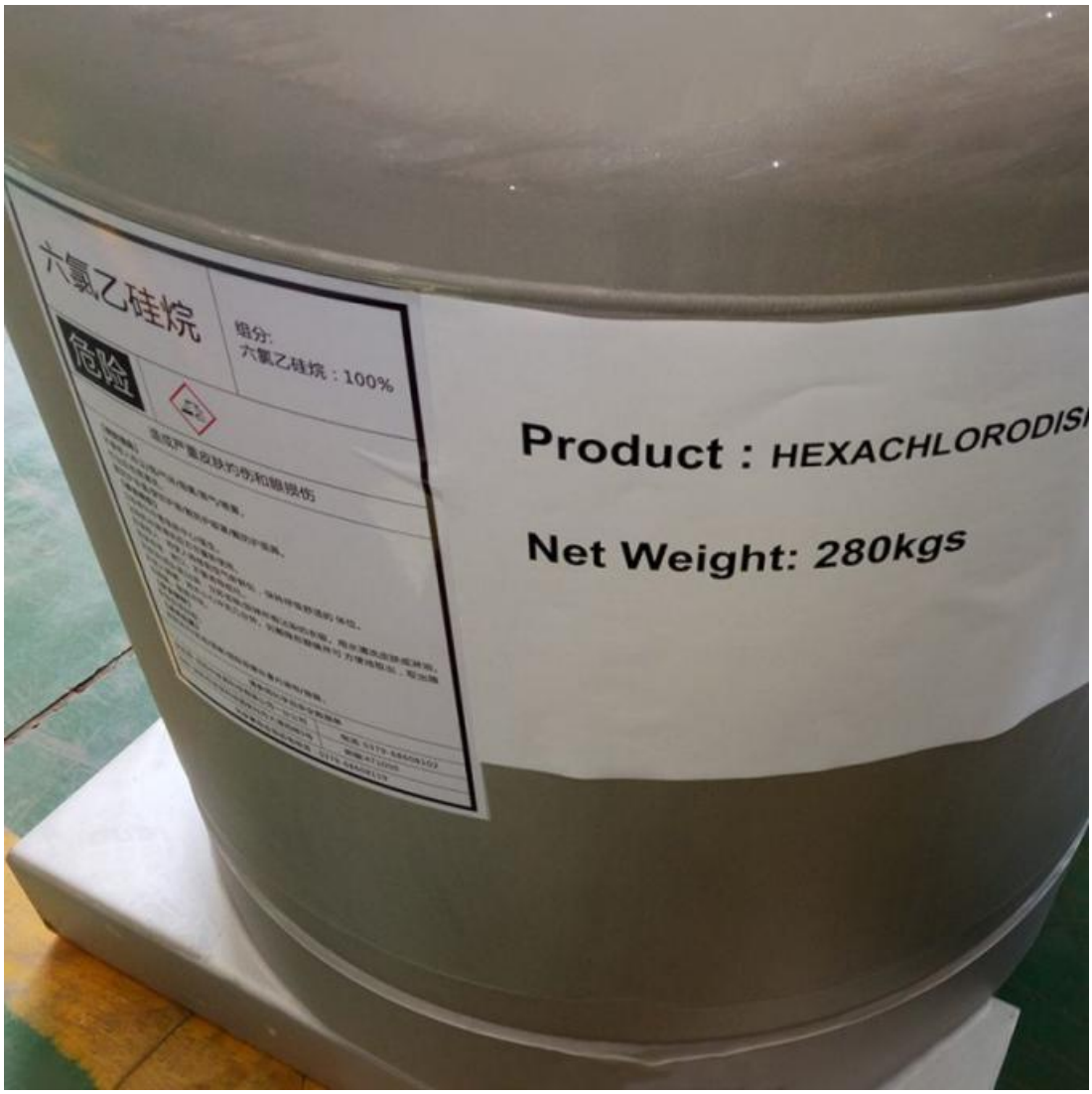
IUPAC name	Hexachlorodisilane
Other names	Disilicon hexachloride
Identifiers	
CAS No.:	13465-77-5
EC No.:	236-704-1
Properties	
Molecular Formula:	Si2Cl6
Molar mass:	268.88 g/mol
Appearance:	Colorless liquid
Melting point:	≤20 °C
Boiling point:	144 °C (291 °F; 417 K)
Flash point:	>93°C
Vopor density(Air=1):	>1
Relative density(Water=1):	1.562

Sample Test:

Test Items	Units	Specifications	Test Result
Assay by GC	wt%	≥99.9	99.905
Li	ng/g	≤0.5	<0.05
Na	ng/g	≤0.5	<0.05
Mg	ng/g	≤0.5	<0.05
Al	ng/g	≤1.0	0.35
K	ng/g	≤0.5	0.08
Ca	ng/g	≤0.5	0.16
Ti	ng/g	≤1.0	0.18
Cr	ng/g	≤0.5	<0.05
Mn	ng/g	≤0.5	<0.05
Fe	ng/g	≤1.0	0.48
Co	ng/g	≤0.5	<0.05

Ni	ng/g ≤0.5	0.06
Cu	ng/g ≤0.5	<0.05
Zn	ng/g ≤0.5	<0.05

Detailed Photos



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

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

Shanghai Kemike Chemical Co.,Ltd

+86 18762990415 williamchen@cmc-chemical.com gascylindertank.com