



China Factory Wholesale Price Good Quality 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

- Product Name: 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



for more products please visit us on gascylindertank.com

Product Description

Product Description

Hexachlorodisilane (Si₂Cl₆) gas is a chemical compound composed of two silicon (Si) atoms and six chlorine (Cl) atoms. It is a colorless gas with a pungent odor and is primarily used in the field of organosilicon chemistry.

Here are some key points about hexachlorodisilane gas:

Chemical Structure: Hexachlorodisilane consists of two silicon atoms bonded to each other by a covalent bond, with each silicon atom being bonded to three chlorine atoms. The molecular formula is Si₂Cl₆. It is a highly reactive compound due to the presence of the silicon-chlorine bonds.

Synthesis: Hexachlorodisilane is typically synthesized by the reaction of silicon with chlorine gas. The reaction is highly exothermic and requires careful control of reaction conditions. It is often produced and used in situ due to its reactivity and tendency to decompose upon storage.

Reactivity: Hexachlorodisilane is a versatile precursor in organosilicon chemistry. It can undergo various reactions to form a wide range of organosilicon compounds. It is commonly used as a source of silicon in the synthesis of silicon-based polymers, coatings, and other materials.

Hexachlorodisilane can react with organic compounds containing functional groups like alcohols, amines, or thiols to introduce silicon atoms into the organic backbone.

Safety Considerations: Hexachlorodisilane is a reactive and corrosive compound that should be handled with caution. It can decompose spontaneously, releasing corrosive hydrogen chloride gas. It reacts vigorously with water, so proper safety measures, including the use of appropriate personal protective equipment and adherence to good laboratory practices, should be followed when working with hexachlorodisilane.

Industrial Applications: Hexachlorodisilane has industrial applications in the production of organosilicon compounds and materials. It is used as a precursor in the synthesis of silicone polymers, resins, and elastomers. These materials find applications in various industries, including construction, electronics, automotive, and healthcare.

It's important to note that hexachlorodisilane is a specialized compound primarily used in research and industrial settings related to organosilicon chemistry. The average person is unlikely to encounter or work with this gas in their daily lives.

Basic Info.

| | | | |
|-------------------|---------------------------------|---------------------|----------------|
| Model NO. | Si ₂ Cl ₆ | 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: | Si ₂ Cl ₆ |
| 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 |
| Vapor 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.

| | | | | | | | | |
|--------------------|--------------------------------|-------------------------------|--|-------------------|-------------------|------------------|-----------------|---------------------------------|
| 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 | | | |



 Shanghai Kemike Chemical Co.,Ltd

 +86 18762990415

 williamchen@cmc-chemical.com

 gascylindertank.com