China

CMC

COA

Geh4

China Factory High Quality industrial cylinder gas purity 99.999% Geh4 Gas Germane

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 1kg
- Price: US \$100/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 5000kg/month



Product Specification

- Product Name:
- Grade:Purity:
- Germane Gas Electronic Grade 99.999%
- Model No.:
- Transport Package:Specification:
- Trademark:
- Origin:
- CAS No.:
- Formula:
- Constituent:
- Grade Standard:
- Chemical Property:
- Transport:
- Customization:



Available | Customized Request



More Images



Product Description

Germane gas, also known as germanium hydride (GeH4), is a colorless, flammable gas with a foul odor. It is composed of one atom of germanium and four atoms of hydrogen. Germane is a group IV hydride and is chemically similar to methane (CH4).

Germane gas is primarily used in the semiconductor industry for the deposition of germanium films and the doping of semiconductors with germanium. It is also used in the production of optical fibers and as a precursor in the synthesis of various germanium-containing compounds. It is important to handle germane gas with caution as it is highly flammable and can form explosive mixtures with air. The gas is toxic and poses health hazards if inhaled or exposed to the skin. Proper safety measures, such as adequate ventilation and the use of personal protective equipment, should be followed when working with germane gas.

Please note that the information provided here is based on general knowledge, and specific safety guidelines and regulations may vary. It is important to consult reliable sources and adhere to proper safety protocols when dealing with germane gas or any other hazardous substances.

Basic Info.

| Model NO. | GeH4 | Constituent | Germane 99.999% |
|----------------|------------------|-------------------|-----------------|
| Grade Standard | Electronic Grade | Chemical Property | Inflammable Gas |
| Trademark | CMC | Transport Package | 44L |
| Specification | 99.999 | Origin | China |

Germane - (GeH4)

Description

Germane is a flammable , colorless gas with characteristic pungent ,nauseating odor .lts boiling point is - 90°C. It is unstable and can decompo se explosively when heated to greater than 330°C.

| Specifications | |
|--------------------------------|--------------------------|
| Purity,% | 99.999 |
| Oxygen + Argon | ≤0.5 ppmv |
| Nitrogen | ≤2.0 ppmv |
| Carbon Dioxide | ≤2.0 ppmv |
| Carbon Monoxide | ≤1.0 ppmv |
| Methane | ≤1.0 ppmv |
| Water | ≤1.0 ppmv |
| Chlorogermanes | ≤5.0 ppmv |
| Digermane* | ≤20.0 ppmv |
| Germoxanes | ≤5.0 ppmv |
| Hydrogen* | ≤50.0 ppmv |
| Trigermane | ≤1.0 ppmv |
| | |
| Ship | |
| DOT Shipping Name | Germane |
| DOT Classification | 2.3 |
| DOT Label | Toxic Gas, Flammable Gas |
| UN Number | UN2192 |
| CAS No. | 7782-65-2 |
| CGA/DISS/JIS | 350/632/W22-14L |
| Shipped as | Compressed Gas |
| Technical Information | |
| Cylinder State @ 21.1°C | Gas |
| Flammable Limits In Air | 0.5-100% |
| Auto Ignition Temperature (°C) | 54.4 |
| Molecular Weight (g/mol) | 76.62 |
| Specific gravity (air =1) | 2.65 |
| Critical Temperature (°C) | 34.8 |
| Critical Pressure (psig) | |
| | |

Applications

Used for the deposition of epitaxial and amorphous silicon - germanium alloys , and as a component for PECVD of (Si, Ge)O2 films with controllable refractive index for photonic .

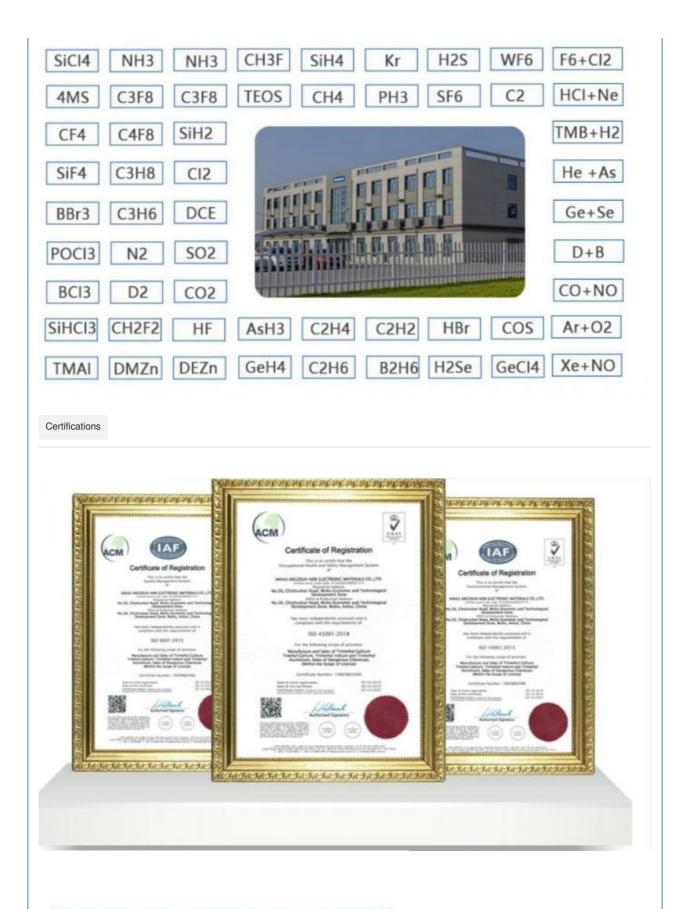
Detailed

Photos



Company Profile

ShangHai CMC chemical Co., Itd. 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.



Workshop Display:



Shipping Methods



