5000kg/month



Industrial/Medical/Electronic Grade Cheap Cylinder Gas Geh4 Germane

Basic Information

Place of Origin: China
Brand Name: CMC
Certification: COA
Model Number: Geh4
Minimum Order Quantity: 1kg
Price: US \$100/kg

Price.
Packaging Details:
Delivery Time:
Payment Terms:
US \$100/kg
Cylinder/Tank
15 days
L/C, T/T



Product Specification

. Supply Ability:

• Product Name: Germane Gas • Transport: By Sea • Appearance: Colorless • Transport Package: Cylinder · Specification: 44L Trademark: CMC China • Origin: 7782-65-2 CAS No.:

Constituent: Industrial Pure Air
 Grade Standard: Industrial Grade
 Chemical Property: Poisonous Gases

• Purity: 99.999 %

• Customization: Available | Customized Request

Geh4



More Images

• Formula:









Product Description

Product Description

Germane gas is a compound composed of germanium and hydrogen with the chemical formula GeH4. It is a colorless, flammable gas that is highly toxic and reactive. Here are some key points about germane gas:

Chemical Composition: Germane gas is composed of one germanium atom bonded to four hydrogen atoms (GeH4).

Properties: Germane gas possesses several important properties:

Toxicity: Germane gas is highly toxic and poses significant health hazards. Inhalation or exposure to high concentrations can cause severe health effects, including respiratory irritation, lung damage, and organ failure.

Flammability: Germane gas is flammable and can form explosive mixtures with air when exposed to an ignition source.

Volatility: Germane gas is a volatile compound, meaning it can easily vaporize at room temperature.

Production: Germane gas can be produced through several methods, including the reaction of germanium tetrachloride (GeCl4) with hydrogen gas (H2) or the reaction of germanium dioxide (GeO2) with a reducing agent like hydrogen.

Uses: Germane gas has various applications:

Semiconductor Industry: Germane gas is used in the production of semiconductors, particularly in the deposition of germanium-containing thin films. It is employed as a precursor in the chemical vapor deposition (CVD) process to create germanium-based layers for electronic devices.

Research and Development: Germane gas is used in research laboratories as a source of germanium for experiments and studies.

Specialty Chemical Synthesis: Germane gas can be used as a reagent in certain chemical reactions to introduce germanium into organic compounds or to synthesize specialized chemicals.

Safety Considerations: Germane gas is highly toxic and poses significant health and safety risks. Some important considerations include: Inhalation Hazard: Germane gas should be handled in well-ventilated areas or under appropriate fume hoods to prevent inhalation exposure. Flammability Hazard: Germane gas is flammable and should be handled with caution to avoid ignition sources, such as open flames or sparks. Storage and Handling: Proper storage, handling, and transportation practices should be followed to ensure the safety of germane gas. Safety equipment, such as gas detectors and personal protective equipment, should be used when working with this compound.

It is important to note that germane gas is highly toxic and poses significant health risks. Proper safety precautions, including appropriate ventilation, personal protective equipment, and adherence to safety guidelines, should be followed when working with this compound. 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. Its 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

DOT Shipping Name Germane **DOT Classification** 2.3

Toxic Gas, Flammable Gas DOT Label **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 (nsig)	

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 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.

CH3F F6+CI2 WF6 SiCI4 NH3 NH3 SiH4 Kr H₂S

C2 C3F8 C3F8 **TEOS** CH4 PH₃ SF6 HCI+Ne 4MS

SiH2 CF4 C4F8

SiF4 **C3H8** CI2

DCE BBr3 **C3H6**

POCI3 SO2 N2

BCI3 D2 CO₂

SiHCI3 CH2F2 HF

TMAI DMZn DEZn AsH3 C2H2

C2H4

GeH4

C2H6

B2H6

H2Se

HBr

GeCl4

COS

Xe+NO

TMB+H2

He +As

Ge+Se

D+B

CO+NO

Ar+O2





