

China factory 99.999% High Quality Purity 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
Packaging Details: Cylinder/Tank

Packaging Details. Cylinder/Tank
Delivery Time: 15 days
Payment Terms: L/C, T/T
Supply Ability: 5000kg/month



Product Specification

• Product Name: Germane Gas • Purity: 99.999% • Transport: Cylinder Germane Gas Model No.: • Transport Package: Cylinder Specification: 44L Trademark: CMC China Origin: · CAS No.: 7782-65-2 Formula: Geh4

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

Appearance: Colorless

Customization: Available | Customized Request



More Images







Product Description

Product Description

Germane gas (GeH4) is a colorless, flammable, and highly toxic gas. It is composed of one germanium atom bonded to four hydrogen atoms. Germane is a member of the group 14 elements on the periodic table, which includes carbon, silicon, tin, and lead. Here are some key points about germane gas:

Properties: Germane gas possesses several important properties:

Flammability: Germane is a flammable gas and can form explosive mixtures with air. It should be handled with extreme caution and stored away from ignition sources.

Toxicity: Germane is highly toxic and can cause severe health effects. Inhalation or exposure to germane can lead to respiratory irritation, dizziness, headache, and even death in high concentrations.

Reactivity: Germane is reactive and can undergo chemical reactions with various substances. It can decompose at high temperatures or in the presence of certain catalysts.

Production: Germane gas can be produced through several methods, including:

Reaction of Germanium with Hydrogen: Germane can be synthesized by the direct reaction of germanium metal with hydrogen gas at high temperatures.

Chemical Vapor Deposition (CVD): Germane can be formed as a byproduct during the deposition of thin films of germanium using chemical vapor deposition techniques.

Uses: Germane gas has some specialized applications, including:

Semiconductor Manufacturing: Germane is used in the production of semiconductors, particularly in the deposition of germanium-containing thin films for electronic and optoelectronic devices.

Research and Development: Germane gas is employed in research laboratories for various purposes, such as studying germanium chemistry, investigating thin film growth processes, and exploring new materials and applications.

Safety Considerations: Germane gas is highly toxic and poses significant health and safety risks. Proper handling, storage, and use of germane should follow stringent safety protocols and guidelines. It is important to have adequate ventilation, use personal protective equipment, and ensure that appropriate safety measures are in place when working with germane gas.

Due to its toxicity and flammability, germane gas should only be handled by trained professionals in controlled laboratory or industrial settings.

Basic Info.

Model NO.	GeH4	Constituent	Germane 99.999%
Grade Standard	Electronic Grade	Chemical Property	Inflammable Gas
Trademark	СМС	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.

C	pec	ific	o+i	nn.	_
O	pec	JIIIC	all	UH	5

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

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





