

China Cylinder Gas Inflammable Compressed High Purity Germane Geh4 Gas

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
Delivery Time: 15 days
Payment Terms: L/C, T/T
Supply Ability: 5000kg/month



Product Specification

Product Name: Germane Gas
Transport: By Sea
Appearance: Colorless
Transport Package: Cylinder
Specification: 44L
Trademark: CMC

Origin: China
 CAS No.: 7782-65-2
 Formula: Geh4

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

• Purity: 99.999 %

Customization: Available | Customized Request
 Highlight: geh4 gas Cylinder, Compressed geh4 gas,



More Images









Product Description

Inflammable Compressed Germane Geh4 Gas Cylinder Tank

Germane gas (GeH4) is a colorless, flammable, and highly toxic gas. It belongs to the group of compounds known as hydrides, which are formed by combining hydrogen with various elements. 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 of germane gas can cause severe health effects, including respiratory distress, eye and skin irritation, and damage to the central nervous system.

Flammability: Germane gas is flammable and can form explosive mixtures with air. It has a wide flammable range and can ignite at relatively low temperatures or when exposed to a flame or spark.

Stability: Germane gas is unstable and can decompose or react with other substances under certain conditions.

Production: Germane gas can be produced by various methods, including:

Direct Combination: Germane gas can be produced by combining germanium tetrachloride (GeCl4) with hydrogen gas (H2) in the presence of a reducing agent.

Decomposition: Germane gas can also be generated by the decomposition of certain germanium hydride compounds through thermal or chemical reactions

Uses: Germane gas has limited practical applications due to its toxicity and instability. Some notable uses include:

Semiconductor Manufacturing: Germane gas is used in the production of semiconductors and thin-film devices. It is employed as a dopant gas to introduce germanium atoms into silicon-based materials during the fabrication process.

Research and Laboratory Applications: Germane gas is sometimes used in research laboratories for specific experiments or as a precursor for the synthesis of certain germanium-containing compounds.

Safety Considerations: Due to its toxicity and flammability, germane gas requires careful handling and strict safety precautions. Proper ventilation, personal protective equipment, and adherence to safety guidelines are essential when working with germane gas. Additionally, storage and transportation should be done in compliance with applicable regulations.

It is important to note that germane gas should only be handled by trained professionals in properly equipped facilities due to its hazardous nature.

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)

Descripti

on

Germane is a flammable, colorless gas with characteristic pungent, naus eating odor. Its boiling point is - 90°C. It is unstable and can decompose explosively when heated to greater than 330°C.

Specific ations Purity, 99.999 Oxygen ≤0.5 ppmv + Argon Nitrogen ≤2.0 ppmv Carbon ≤2.0 ppmv Dioxide Carbon Monoxid ≤1.0 ppmv Methane ≤1.0 ppmv Water ≤1.0 ppmv Chloroa ≤5.0 ppmv ermanes Digerma ≤20.0 ppmv ne* Germox ≤5.0 ppmv anes Hydroge ≤50.0 ppmv Trigerma ≤1.0 ppmv ne

Ship

DOT Shi pping Na Germane me DOT Cla ssificatio 2.3 DOT La Toxic Gas, Flammable Gas bel UN Num UN2192 ber CAS No. 7782-65-2 CGA/DI 350/632/W22-14L SS/JIS Shipped Compressed Gas as Technic al Inform ation Cylinder State @ Gas 21.1°C Flamma 0.5-100% ble Limit s In Air Auto Igni tion Tem 54.4 perature (°C) Molecula r Weight (g/mol) 76.62 Specific gravity (2.65 air =1) Critical T emperat ure (°C 34.8 Critical P ressure (psig) Applicati ons Used for the deposition of epitaxial and amorphous silicon - germanium al loys , 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.

SiCl4	NH3	NH3	CH3F	SiH4	Kr	H2S	WF6	F6+CI2
4MS	C3F8	C3F8	TEOS	CH4	PH3	SF6	C2	HCI+Ne
CF4	C4F8	SiH2		100	35			TMB+H2
SiF4	C3H8	CI2						He +As
BBr3	C3H6	DCE	HA		nnn,	ni li	a	Ge+Se
POCI3	N2	SO2			I III			D+B
BCI3	D2	CO2				10000000100000	************	CO+NO
SiHCI3	CH2F2	HF	AsH3	C2H4	C2H2	HBr	cos	Ar+O2
TMAI	DMZn	DEZn	GeH4	C2H6	B2H6	H2Se	GeCl4	Xe+NO





