



## Cylinder Gas High Purity Semiconductor industry Gas C4h12si 4MS Tetramethylsilane

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: C4h12si 4MS
- Minimum Order Quantity: 200kg
- Price: US \$3000
- Packaging Details: Cylinder
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 1000Ton/year



### Product Specification

- Product Name: Tetramethylsilane (TMS)
- Appearance: Colorless
- Transport: By Sea
- Purity: 99.999%
- Model No.: Tetramethylsilane
- Transport Package: 20L, 40L, 280L And Customizable
- Specification: Cylinder, Canister Or Tank
- HS Code: 2812190091
- Supply Ability: 1000t/Year
- CAS No.: 75-76-3
- Formula: Si (CH<sub>3</sub>)<sub>4</sub>
- EINECS: 200-899-1
- Constituent: Industrial Pure Air
- Grade Standard: Electronic Grade
- Chemical Property: Inflammable Gas



### More Images



## Product Description

### High Purity Tetramethylsilane Specialty Gas Cylinder Company C4h12si 4MS

Tetramethylsilane (TMS), also known as tetramethylsilicon, is an organosilicon compound with the chemical formula  $(\text{CH}_3)_4\text{Si}$ . It is a volatile liquid that is commonly used as a reference standard in nuclear magnetic resonance (NMR) spectroscopy.

TMS is highly symmetrical and chemically inert, making it an ideal compound for NMR analysis. It is often added to samples in NMR experiments as an internal standard, against which the chemical shifts of other compounds can be measured. The hydrogen atoms in TMS produce a single peak in the NMR spectrum at a known frequency, which serves as a reference point for determining the chemical shifts of other signals in the spectrum.

TMS is a clear, colorless liquid with a faint odor. It has a boiling point of 26-27 degrees Celsius and a low freezing point of -79 degrees Celsius. It is soluble in most organic solvents, including common NMR solvents like deuterated chloroform ( $\text{CDCl}_3$ ) or deuterated dimethyl sulfoxide ( $\text{DMSO-d}_6$ ).

In addition to its use in NMR spectroscopy, TMS also finds applications as a chemical intermediate and as a reagent in organic synthesis. It can be used as a silylating agent to protect functional groups during chemical reactions or to derivatize compounds for analysis. TMS is also employed in the production of silicone polymers and as a precursor for other organosilicon compounds.

Overall, tetramethylsilane is an important compound in the field of NMR spectroscopy and has various uses in organic chemistry and materials science.

#### Basic Info.

|                      |                               |                   |                            |
|----------------------|-------------------------------|-------------------|----------------------------|
| Model No:            | C4H12si                       | Transport Package | Cylinder, Canister or Tank |
| Specification:       | 20L,40L,280L and customizable | Trademark         | CMC                        |
| Origin:              | Suzhou,China                  | HS Code           | 2812190091                 |
| Production Capacity: | 1000t/Year                    |                   |                            |

#### The COA of Product:

| Test Items |  | Unit | Test Results |
|------------|--|------|--------------|
| Purity     | Si(CH <sub>3</sub> ) <sub>4</sub> (ICP-MS) | %    | >99.99999    |
|            | Si(CH <sub>3</sub> ) <sub>4</sub> (GC)     | %    | 99.99        |
| Impurities | Li   | ng/g | <0.05        |
|            | B  | ng/g | 0.16         |
|            | Na   | ng/g | 0.05         |
|            | Mg   | ng/g | <0.05        |
|            | Al   | ng/g | 0.14         |
|            | K  | ng/g | 0.16         |
|            | Ca   | ng/g | 0.05         |
|            | Ti   | ng/g | <0.05        |
|            | Cr   | ng/g | <0.05        |
|            | Mn   | ng/g | <0.05        |
|            | Fe   | ng/g | 0.21         |
|            | Co   | ng/g | <0.05        |
|            | Ni   | ng/g | <0.05        |
|            | Cu   | ng/g | <0.05        |
|            | Zn   | ng/g | <0.05        |
|            | V  | ng/g | <0.05        |
| Cl         | Cl   |      | <0.05        |

#### Detailed Photos



Packaging &  
Shipping

## PACKING & SHIPPING



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: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.



|                    |                                |                               |  |                   |                   |                  |                 |                                 |
|--------------------|--------------------------------|-------------------------------|--|-------------------|-------------------|------------------|-----------------|---------------------------------|
| SiCl <sub>4</sub>  | NH <sub>3</sub>                | NH <sub>3</sub>               | CH <sub>3</sub> F  | SiH <sub>4</sub>  | Kr                | H <sub>2</sub> S | WF <sub>6</sub> | F <sub>6</sub> +Cl <sub>2</sub> |
| 4MS                | C <sub>3</sub> F <sub>8</sub>  | C <sub>3</sub> F <sub>8</sub> | TEOS   | CH <sub>4</sub>   | PH <sub>3</sub>   | SF <sub>6</sub>  | C <sub>2</sub>  | HCl+Ne                          |
| CF <sub>4</sub>    | C <sub>4</sub> F <sub>8</sub>  | SiH <sub>2</sub>              |  |                   |                   |                  |                 | TMB+H <sub>2</sub>              |
| SiF <sub>4</sub>   | C <sub>3</sub> H <sub>8</sub>  | Cl <sub>2</sub>               |  |                   |                   |                  |                 | He +As                          |
| BBr <sub>3</sub>   | C <sub>3</sub> H <sub>6</sub>  | DCE                           |  |                   |                   |                  |                 | Ge+Se                           |
| POCl <sub>3</sub>  | N <sub>2</sub>                 | SO <sub>2</sub>               |  |                   |                   |                  |                 | D+B                             |
| BCl <sub>3</sub>   | D <sub>2</sub>                 | CO <sub>2</sub>               |  |                   |                   |                  |                 | CO+NO                           |
| SiHCl <sub>3</sub> | CH <sub>2</sub> F <sub>2</sub> | HF                            |  |                   |                   |                  |                 | Ar+O <sub>2</sub>               |
| TMAI               | DMZn                           | DEZn                          |  |                   |                   |                  |                 | Xe+NO                           |
| AsH <sub>3</sub>   | C <sub>2</sub> H <sub>4</sub>  | C <sub>2</sub> H <sub>2</sub> | HBr  | COS               | Ar+O <sub>2</sub> |                  |                 |                                 |
| GeH <sub>4</sub>   | C <sub>2</sub> H <sub>6</sub>  | B <sub>2</sub> H <sub>6</sub> | H <sub>2</sub> Se  | GeCl <sub>4</sub> | Xe+NO             |                  |                 |                                 |



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