



## C4h12si An Internal Standard In Nmr Spectroscopy C4h12si Tetramethylsilane (TMS)

Our Product Introduction

### 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: 1000Tons/year

### Tetramethylsilane



### Product Specification

- Product Name: Tetramethylsilane (TMS)
- Transport: By Sea
- Appearance: Colorle
- Model No: C4h12si
- Transport Package: 20L, 40L, 280L And Customizable
- Specification: 20L, 40L, 280L And Customizable
- Trademark: CMC
- Origin: China
- 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: Industrial Grade



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## Product Description

### Product Description

Tetramethylsilane (TMS) 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 compound in nuclear magnetic resonance (NMR) spectroscopy. TMS is a non-toxic, non-reactive substance that is stable under normal conditions.

In NMR spectroscopy, TMS is used as an internal standard to calibrate the chemical shifts of other compounds. Its NMR signal appears at a defined position in the spectrum, known as the "TMS peak" or "TMS reference peak." Since TMS is highly volatile and does not interact with other compounds, it does not interfere with the signals of the compounds being analyzed. Its chemical shift is assigned as 0 ppm (parts per million), and the chemical shifts of other compounds are measured relative to TMS.

TMS is also used as a solvent in various chemical reactions and as a reagent in certain organic syntheses. Its relatively low boiling point and high volatility make it useful in applications where rapid evaporation or removal of the solvent is required.

### 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                      | Colour            | Colorless                  |

| Test Items |                                           | Unit | Test Results |
|------------|-------------------------------------------|------|--------------|
| Purity     | Si(CH <sub>3</sub> ) <sub>4</sub> (CP-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

# Tetramethylsilane





#### 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: 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.

|        |       |      |                                                                                    |      |       |     |     |        |
|--------|-------|------|------------------------------------------------------------------------------------|------|-------|-----|-----|--------|
| SiCl4  | NH3   | NH3  | CH3F                                                                               | SiH4 | Kr    | H2S | WF6 | F6+Cl2 |
| 4MS    | C3F8  | C3F8 | TEOS                                                                               | CH4  | PH3   | SF6 | C2  | HCl+Ne |
| CF4    | C4F8  | SiH2 |  |      |       |     |     | TMB+H2 |
| SiF4   | C3H8  | Cl2  |                                                                                    |      |       |     |     | He +As |
| BBr3   | C3H6  | DCE  |                                                                                    |      |       |     |     | Ge+Se  |
| POCl3  | N2    | SO2  |                                                                                    |      |       |     |     | D+B    |
| BCl3   | D2    | CO2  |                                                                                    |      |       |     |     | CO+NO  |
| SiHCl3 | CH2F2 | HF   |                                                                                    |      |       |     |     | Ar+O2  |
| TMAI   | DMZn  | DEZn |                                                                                    |      |       |     |     | Xe+NO  |
| AsH3   | C2H4  | C2H2 | HBr                                                                                | COS  | GeCl4 |     |     |        |



**Q: What is the min order?**

A: Different products have different min orders. It depends on the kind the gas and the cylinder specifications. Please feel free to contact me directly for your requirement.

**Q: What is the package & storage details?**

A: Seamless steel cylinder with different valves, or as to your requirement.

Stored in the shady, cool, dry, ventilated warehouse, and keep away from sunlight and ramming.

**Q: Shall we send back the cylinders to China to refill the gas again?**

A: Yes, when you ordered our cylinders, next time, you can send back the cylinders to fill gas again. You just need to tell us before you export. We will handle all the import customs clearance formalities.

**Q: What are your company's main sales products?**

A: We mainly supply electronics specialty gas and mixtures needed by the electronics industry, such as NH3, SiH4, C4F8, O2, CF4, CO2,

TEOS, etc.

**Q: How to ensure the quality of your products?**

A: We have passed the ISO 9001:2015 quality management system certification and ISO 14001:2015 environmental management system certification.

**Q: How do you ship the product?**

A: Usually we ship products by ocean shipping

**Q: What is your advantage over other competitors?**

A: We are a factory with excellent equipment and a high-quality control system, and our factory price is more competitive, fast shipment with high quality.

We have a full-time after-sales service providing solutions to various problems. After-sales service engineers standby 24 hours a day, and respond to customer needs when necessary at the first time.

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