



## 99.999% Cylinder Gas CF<sub>4</sub> Carbon Tetrafluoride Gas China Supply

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: CF<sub>4</sub>
- Minimum Order Quantity: 1kg
- Price: US \$15/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year



### Product Specification

- Product Name: Carbon Tetrafluoride Gas
- Melting Point: -184 C
- Appearance: Colorless, Odorless
- Boiling Point: -128.1 C
- Cylinder Pressure: 15MPa/20MPa
- Valve: Cga580
- Cylinder Standard: DOT/ISO/GB
- Transport Package: 40L, 47L, 50L
- Specification: 40L, 47L, 50L
- Trademark: CMC
- Origin: Suzhou, China
- HS Code: 28261990
- Supply Ability: 20000tons/Year
- CAS No.: 75-73-0
- Formula: CF<sub>4</sub>



### More Images



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## Product Description

### Product Description

Carbon tetrafluoride, also known as tetrafluoromethane or CF<sub>4</sub>, is a chemical compound consisting of one carbon atom bonded to four fluorine atoms. It is a colorless and odorless gas at room temperature and atmospheric pressure. Here are some key points about carbon tetrafluoride gas:

Chemical Formula: CF<sub>4</sub>

Molecular Weight: 88.0 g/mol

Structure: Carbon tetrafluoride has a tetrahedral molecular geometry, with the carbon atom at the center and four fluorine atoms arranged around it.

Physical Properties: CF<sub>4</sub> is a non-flammable gas. It is denser than air and has a high vapor pressure at room temperature.

Production: Carbon tetrafluoride can be produced by the reaction of carbon with fluorine gas or by the reaction of carbon tetrachloride with hydrogen fluoride. It is also a byproduct of certain industrial processes, such as aluminum production.

Chemical Reactivity: CF<sub>4</sub> is a stable compound and is relatively unreactive under normal conditions. It is highly resistant to most chemical reagents, including strong acids and bases. However, it can react with strong reducing agents or alkali metals at elevated temperatures.

Applications: Carbon tetrafluoride has various industrial applications. It is commonly used as a plasma etchant in the semiconductor industry for the production of microchips and electronic devices. CF<sub>4</sub> is also employed as a refrigerant in some specialized cooling systems and as a dielectric gas in high-voltage electrical equipment.

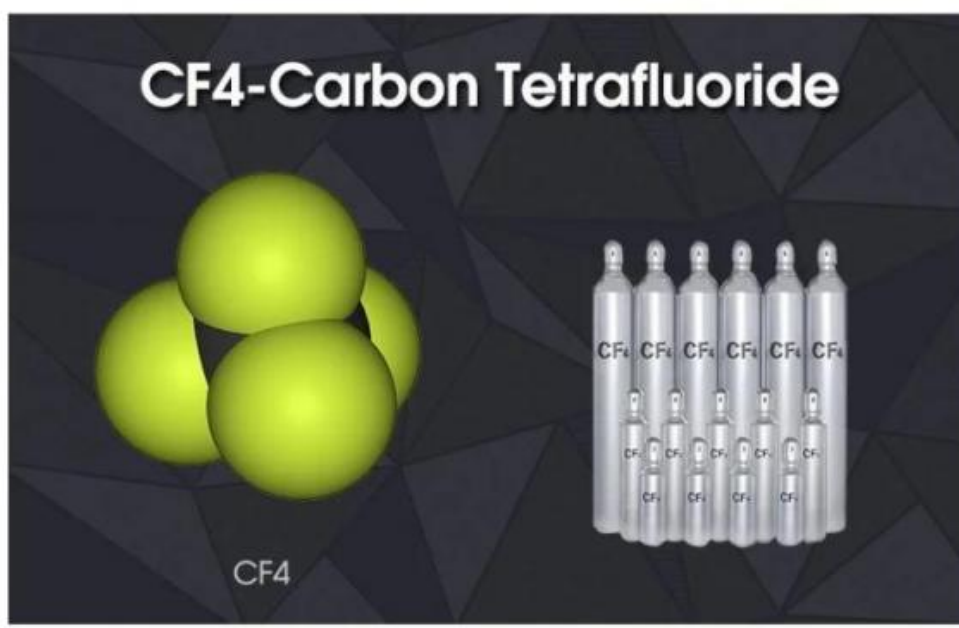
Environmental Impact: Carbon tetrafluoride is classified as a greenhouse gas and has a high global warming potential. Although it is not as prevalent in the atmosphere as other greenhouse gases, such as carbon dioxide or methane, it can contribute to climate change if released in significant quantities.

Safety Considerations: CF<sub>4</sub> is not flammable and does not support combustion. However, it is important to handle it with caution, as it can displace oxygen and cause asphyxiation in high concentrations. Proper safety measures, such as adequate ventilation and monitoring, should be followed when working with carbon tetrafluoride gas.

Regulations: The use, handling, and release of carbon tetrafluoride are subject to regulations and guidelines, particularly due to its environmental impact as a greenhouse gas. Compliance with local regulations and best practices is essential to minimize its potential negative effects.

#### Basic Info.

DOT Class	2.2	Un No	1982
Cylinde	DOT/ISO/GB	Cylinder Pressure	15MPa/20MPa
Valve	Cga580	Melting Point	-184 °C
Appearance	Colorless, Odorless	Boiling Point	-128.1°C
Density	3.72 Kg/M3;	Molecular Weight	88
Transport Package	40L, 47L, 50L	Specification	100.00%
Trademark	CMC	Origin	China
HS Code	28261990	Production Capacity	2, 000 Tons/Year



Specification:



## About us



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	
			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>	





 **Shanghai Kemike Chemical Co.,Ltd**

 +86 18762990415

 [williamchen@cmc-chemical.com](mailto:williamchen@cmc-chemical.com)

 [gascylindertank.com](http://gascylindertank.com)