



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

### Our Product Introduction

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#### 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
- Cylinder Pressure: 15MPa/20MPa
- Appearance: Colorless, Odorless
- Valve: Cga580
- Cylinder Standard: DOT/ISO/GB
- Model No.: Carbon Tetrafluoride
- 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>
- EINECS: 200-896-5



#### More Images



## Product Description

### Product Description

Carbon tetrafluoride gas (CF<sub>4</sub>) is a colorless and odorless gas composed of one carbon atom bonded to four fluorine atoms. It is also known as tetrafluoromethane. Here are some key points about carbon tetrafluoride gas:

Properties: Carbon tetrafluoride possesses several important properties:

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

Molecular Weight: 88.0043 grams per mole

Density: The gas has a density of approximately 3.72 kg/m<sup>3</sup> at room temperature and atmospheric pressure.

Boiling Point: Carbon tetrafluoride has a boiling point of -128.2°C (-198.8°F) at atmospheric pressure.

Solubility: CF<sub>4</sub> is sparingly soluble in water.

Production: Carbon tetrafluoride gas can be produced through various methods, including the reaction between carbon monoxide (CO) and fluorine gas (F<sub>2</sub>) or through the reaction of methane (CH<sub>4</sub>) with fluorine gas. It can also be obtained as a byproduct of certain chemical processes.

Uses: Carbon tetrafluoride gas has several applications in different industries:

Electronics Industry: CF<sub>4</sub> is commonly used as a plasma etching gas in the semiconductor manufacturing process. It helps to remove unwanted layers of material from the surface of semiconductor wafers.

Refrigeration: Carbon tetrafluoride has been used as a refrigerant in some specialized applications due to its low boiling point and electrical non-conductivity.

Electrical Insulation: CF<sub>4</sub> is utilized as an electrical insulating gas in some high-voltage applications, such as gas-insulated substations (GIS) and circuit breakers.

Research and Development: Carbon tetrafluoride is employed in research and development laboratories for various purposes, including as a tracer gas, a calibration standard, and a component in gas mixtures.

Safety Considerations: When working with carbon tetrafluoride gas, it is essential to consider the following safety precautions:

Inhalation: CF<sub>4</sub> is not considered toxic; however, it is an asphyxiant gas, as it can displace oxygen in confined spaces. Adequate ventilation should be provided to prevent oxygen-deficient environments.

Fire and Explosion Hazards: CF<sub>4</sub> is non-flammable, but it can support combustion in the presence of oxidizing agents. Proper precautions should be taken to prevent the release of CF<sub>4</sub> in environments where flammable materials or ignition sources are present.

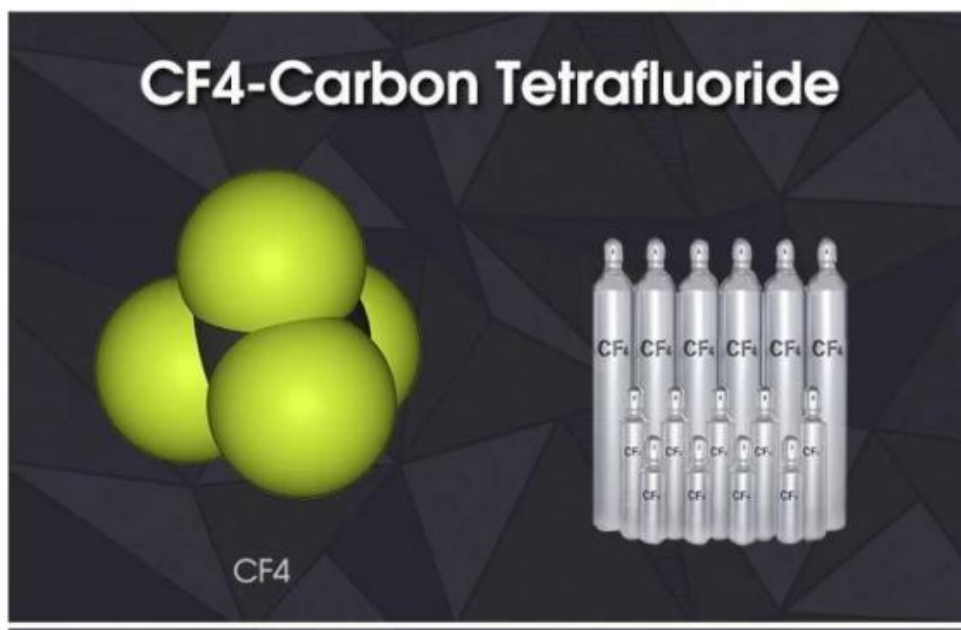
Handling and Storage: Carbon tetrafluoride should be handled using standard safety practices, including the use of appropriate personal protective equipment (PPE) and the adherence to proper storage and handling procedures.

Environmental Impact: CF<sub>4</sub> is a greenhouse gas with a high global warming potential (GWP). It is important to minimize its release into the atmosphere and follow regulations regarding its handling and disposal.

As with any hazardous substance, it is crucial to follow safety guidelines, regulations, and manufacturer recommendations when working with carbon tetrafluoride gas.

#### 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:**

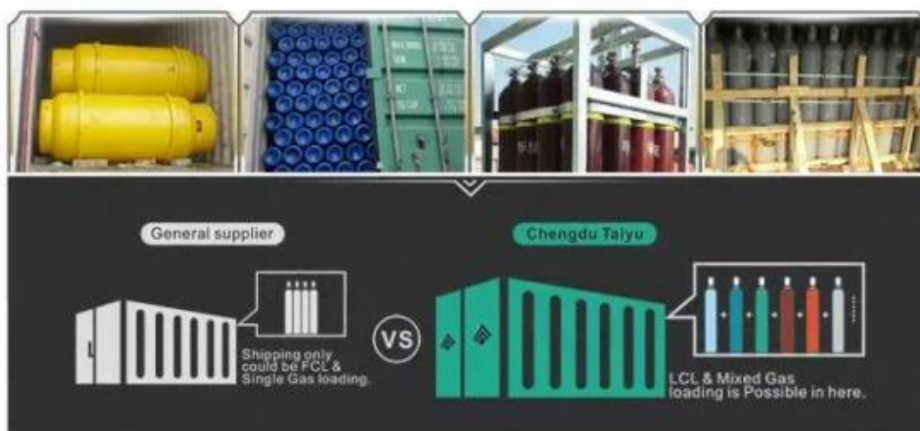
Specifications	Company Standard
CF <sub>4</sub>	≥ 99.999%
O <sub>2</sub> +AR	≤ 1 ppm
N <sub>2</sub>	≤ 2 ppm
H <sub>2</sub>	≤ 0.3 ppm
CO	≤ 0.3 ppm
CO <sub>2</sub>	≤ 0.3 ppm
SF <sub>6</sub>	≤ 0.3 ppm
THC	≤ 0.3 ppm
OFC	≤ 1 ppm
Moisture	≤ 1 ppm

**Detailed Photos**




## Packaging & Shipping

### PACKING & SHIPPING



Company

Profile



## 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	Ar+O <sub>2</sub>	Xe+NO		
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>				



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