



## China Factory 99.999% High Purity Cylinder Gas CF4 Carbon Tetrafluoride

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: CF4
- Minimum Order Quantity: 1kg
- Price: US \$14/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
- Valve: Cga580
- Boiling Point: -128.1 C
- Melting Point: -184 C
- Cylinder Standard: DOT/ISO/GB
- Cylinder Pressure: 15MPa/20MPa
- Model No.: Carbon Tetrafluoride
- Transport Package: 47L
- Specification: Bottle
- Trademark: CMC
- Origin: China
- HS Code: 2812190091
- Supply Ability: 600t/Year
- CAS No.: 75-73-0
- Formula: CF4



### More Images



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## Product Description

### Product Description

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

Properties: Carbon tetrafluoride gas possesses several important properties:

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

Molecular Weight: 88.0043 g/mol

Density: Carbon tetrafluoride is denser than air, with a density of approximately 3.72 kg/m<sup>3</sup>.

Production: Carbon tetrafluoride can be produced through various methods, including the reaction of carbon monoxide (CO) with fluorine gas (F<sub>2</sub>) or by the reaction of carbon dioxide (CO<sub>2</sub>) with hydrogen fluoride (HF). It can also be obtained as a byproduct of certain industrial processes, such as the production of aluminum.

Uses: Carbon tetrafluoride gas has some notable applications:

Electrical Industry: CF<sub>4</sub> is commonly used as an insulating gas in high-voltage electrical equipment, such as circuit breakers and transformers. It has excellent dielectric properties and can effectively extinguish electrical arcs.

Semiconductor Manufacturing: CF<sub>4</sub> is used in the semiconductor industry as a plasma etching gas. It can selectively etch silicon dioxide (SiO<sub>2</sub>) and other materials during the fabrication of microelectronic devices.

Medical Applications: Carbon tetrafluoride has been investigated for its potential use as a contrast agent for medical imaging techniques, such as magnetic resonance imaging (MRI). However, its use in this field is not as widespread as other contrast agents.

Calibration Gas: CF<sub>4</sub> is sometimes used as a calibration gas in analytical instruments, such as gas chromatographs, due to its stable and well-defined properties.

Environmental Impact: Carbon tetrafluoride is classified as a potent greenhouse gas with a high global warming potential (GWP). It has a GWP of 7,390 over a 100-year time horizon, meaning it has a significantly higher warming effect compared to carbon dioxide (CO<sub>2</sub>). As a result, the release of CF<sub>4</sub> into the atmosphere contributes to climate change.

Emissions Control: Efforts are made to minimize the release of CF<sub>4</sub> during production processes and to capture and destroy CF<sub>4</sub> emissions when they occur. Regulations and guidelines exist to control and reduce the emission of CF<sub>4</sub> and other fluorinated greenhouse gases.

It is important to handle and use carbon tetrafluoride gas in accordance with safety guidelines and regulations. Proper precautions should be taken to ensure the safe storage, handling, and disposal of CF<sub>4</sub>, particularly due to its potential environmental impact.

#### Basic Info.

Model No:	CF <sub>4</sub>	Transport Package	Cylinder, Canister
Specification:	47L / 470L 31kg / 320kg	Trademark	CMC
Origin:	Suzhou, China	HS Code	2812190091
Production Capacity:	600t/Year		



#### Product specification

Product Name	Carbon Tetrafluoride
Type	CF <sub>4</sub>
Purity	n5.0
Cylinder Spec	47L / 470L
Fill contents(20°C)	31kg / 320kg
Fill pressure(20°C,-5%)	138 bar
Valve type	DISS 716
Applications	Semiconductor chip,solar cell: Plasma etching gas, used in plasma dry etching process.

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	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>
TMAI	DMZn	DEZn	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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