



## Cleaning Agents Cooling Systems Octafluorocyclobutane Semiconductor Industry Application Usage Cylinder Gas C4f8

Our Product Introduction

for more products please visit us on [gascylindertank.com](http://gascylindertank.com)

### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: C4f8
- Minimum Order Quantity: 1kg
- Price: US\$0-800/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 5000kg/month



### Product Specification

- Product Name: Octafluorocyclobutane Gas
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- Boiling Point: -6
- Melting Point: -41.4
- Cylinder Standard: GB/ISO/DOT
- Model No.: 99.999% C4f8
- Transport Package: Sea Transportation
- Specification: 10L 40L 47L 50L
- Trademark: CMC
- Origin: Suzhou, China
- HS Code: 2903890090
- Supply Ability: 100, 000tons/Year
- CAS No.: 115-25-3
- Formula: C4f8
- EINECS: 204-075-2



### More Images

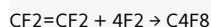


## Product Description

### Cleaning Agents Cooling Systems Octafluorocyclobutane Semiconductor Industry Application Usage Cylinder Gas C4f8

C4F8 gas, also known as octafluorocyclobutane, is a chemical compound composed of carbon and fluorine. Its molecular formula is C4F8. Here are some key points about C4F8 gas:

Formation: C4F8 gas can be produced by the reaction of tetrafluoroethylene (CF<sub>2</sub>=CF<sub>2</sub>) with fluorine gas (F<sub>2</sub>). The reaction can be represented as follows:



Physical properties: C4F8 is a colorless, odorless gas at room temperature and pressure. It has a boiling point of -16.3 °C (-1.3 °F) and a melting point of -97.9 °C (-144.2 °F). It is relatively stable and non-reactive under normal conditions.

Chemical properties: Octafluorocyclobutane is a highly stable compound with low reactivity. It is non-flammable, non-toxic, and non-corrosive. It is also electrically insulating, making it useful in certain electrical applications.

Uses: C4F8 gas has various applications, primarily in the electronics industry. It is commonly used as a dielectric gas in plasma etching processes for semiconductor manufacturing. It is particularly effective in etching silicon dioxide (SiO<sub>2</sub>) and silicon nitride (Si<sub>3</sub>N<sub>4</sub>) materials. C4F8 gas is also utilized in the production of photovoltaic cells and flat-panel displays.

Environmental impact: Octafluorocyclobutane is a greenhouse gas with a high global warming potential (GWP). It has a significantly higher GWP than carbon dioxide (CO<sub>2</sub>) over a 100-year time frame. As a result, efforts are being made to monitor and reduce the emissions of C4F8 and other fluorinated gases to mitigate their environmental impact.

It's important to note that if you are working with or handling C4F8 gas, it should be done so with caution. Proper safety protocols, including the use of appropriate protective equipment and adherence to handling guidelines, should be followed.

#### Basic Info.

DOT Class	2.2	Un No	1976
Cylinde	DOT/ISO/GB	Cylinder Pressure	15MPa/20MPa
Valve	Cga580	Melting Point	-41.4 °C
Appearance	Colorless, Odorless	Boiling Point	-6 °C
Density	6.9 Kg/M	Molecular Weight	200.03
Transport Package	40L, 47L, 50L	Specification	100.00%
Trademark	CMC	Origin	China
HS Code	29038900	Production Capacity	100, 000 Tons/Year



**Specification:**

CAS No.: 115-25-3  
EINECS No.: 204-075-2  
UN No.: UN1976  
Purity: 99.999%  
Dot Class: 2.2  
Appearance: Colorless, Odorless  
Grade Standard: Electronic Grade

Specification	99.999%
Oxygen + Argon	≤ 1 ppm
Nitrogen	≤ 2 ppm
Hydrogen	≤ 0.5 ppm
Carbon Monoxide	≤ 0.5 ppm
Carbon Dioxide	≤ 0.5 ppm
Methane	≤ 0.5 ppm
DHC	≤ 2 ppm
Moisture	≤ 3 ppm
Acidity as HF	≤ 0.1 ppm

**Packaging &  
Shipping**

Cylinder Specifications		Contents
Cylinder Capacity	Valve	Weight
47L	DISS716	50 kgs

**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	
			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)