



## Cylinder Gas 5n C4f8 Gas Electronic Grade 99.999% Octafluorocyclobutane

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
- Minimum Order Quantity: 1kg
- Price: US \$75/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 5000kg/month



Octafluorocyclobutane

### Product Specification

- Product Name: Octafluorocyclobutane
- Valve: Cga580
- Boiling Point: -6 °C
- Melting Point: -41.4 °C
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- Cylinder Standard: GB/ISO/DOT
- Transport Package: 40L, 47L, 50L
- Specification: 40L, 47L, 50L
- Trademark: CMC
- Origin: China
- HS Code: 29038900
- Supply Ability: 1000000ton/Year
- CAS No.: 115-25-3
- Formula: C4f8
- EINECS: 204-075-2



### More Images



## Product Description

### Product Description

Octafluorocyclobutane (C4F8) is a colorless and odorless gas that belongs to the family of perfluorocarbons (PFCs). PFCs are synthetic compounds that consist entirely of carbon and fluorine atoms. Octafluorocyclobutane is primarily used as a dielectric gas in various electrical applications, such as in semiconductor manufacturing and plasma etching processes.

Here are some key properties and applications of octafluorocyclobutane gas:

Properties:

Chemical Formula: C4F8

Molecular Weight: 200.03 g/mol

Boiling Point: -3.7°C (-19.3°F)

Melting Point: -150°C (-238°F)

Density: 9.03 g/L at 25°C (77°F)

Applications:

**Plasma Etching:** Octafluorocyclobutane is widely used as a feed gas in plasma etching processes in the semiconductor industry. It is particularly effective for etching silicon dioxide and silicon nitride films.

**Cleaning Agent:** The gas is used as a cleaning agent in the electronics industry to remove organic and inorganic contaminants from surfaces.

**Insulating Gas:** Octafluorocyclobutane is employed as a dielectric gas in high-voltage electrical equipment, such as gas-insulated switchgear (GIS) and circuit breakers.

**Heat Transfer Fluid:** It can be used as a heat transfer fluid in certain applications due to its high thermal stability and low boiling point.

**Calibration Gas:** Octafluorocyclobutane gas is utilized as a calibration gas in gas analyzers and environmental monitoring equipment.

It's important to note that perfluorocarbons, including octafluorocyclobutane, have a high global warming potential (GWP) and contribute to climate change. Therefore, their usage and emissions are subject to regulation and control to minimize their environmental impact.

#### 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



# Octafluorocyclobutane

**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
OHC	≤ 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**



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>			
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			



 Shanghai Kemike Chemical Co.,Ltd

 +86 18762990415

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

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