



Clean Gas FC-C318

Clean Gas Octafluorocyclobutane



Technical Data

Appearance: Colorless and odorless gas

UN Number: 1976

CAS Number: 115-25-3

Liquefied gas

* Refer to MSDS for detailed information on the properties and safety of the product.

Specification

Purity	vol%	Min. 99.999
Water	volppm	Max. 10
Acids as HF	volppm	Max. 1
Other fluorocarbons	volppm	Max. 4
N ₂ +O ₂	volppm	Max. 20
Particle	Not smaller than 0.1 micrometer	Max. 60/C.F.



Cylinder

Item		10L cylinder	47L cylinder
Size	Inside diameter	140mm	232mm
	Height (to the neck portion)	850mm	1370mm
	Height (with a protective cap) *	1000mm	1520mm
Loading weight		5kg, 10kg	30kg, 50kg
Material		Manganese steel (Clean-S-treated)	

* Estimated values for when a standard valve is mounted on a standard cylinder. The accuracy of these values is not guaranteed.

Valve

Nozzle size	22 mm X 14 right-hand threads
Material	SUS316L

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Physical & Chemical Properties

Item	Unit	Data
Chemical formula		C_4F_8
Molecular weight		200.03
Boiling point		- 5.75
		- 21.5
Melting point		- 41.4
Liquid density (0° C, saturated liquid)	kg/L	1.6
Gas density (0° C, saturated liquid)	g/L	12.03
Specific gravity (air: 1)		6.9
Critical temperature		115.22
Critical pressure	MPa	2.7
	kg/cm ²	27.5
Flammability		Not applicable
Toxicity		Not applicable
Latent heat of vaporization (0° C, 1013 kPa)	kJ/kg	246.7
Maximum permissible concentration (ACGIH)	ppm	—
Explosive limit (in air, 35° C, 101.3 kPa)		—

Temperature - Vapor Pressure Curve

