



High-Purity FC-218

Octafluoropropane



Properties and Classification

Appearance: Colorless and odorless gas

UN Number: 2424

CAS Number: 76-19-7

Liquefied gas

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

Specification

Purity	vol%	Min. 99.95
Air	volppm	Max. 100
H ₂ O	volppm	Max. 30
Acids as HF	volppm	Max. 0.3
Other fluorocarbons	volppm	Max. 500

Under construction

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 *
	Valve nozzle height (center) *	875mm *	1380mm *
Loading weight		8kg	40kg *
Material		Manganese steel	

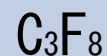
* Estimated values for when a standard valve is mounted on a standard cylinder.
The accuracy of these values is not guaranteed.

Valve

Nozzle size	φ22 mm X 14 right-hand threads
Material	BRASS

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Physical & Chemical Properties

Item	Unit	Data
Chemical formula		C_3F_8
Molecular weight		188.02
Boiling point	°C	-36.7
	°F	-34.1
Melting point	°C	-183.0
Specific gravity (air: 1)		6.5
Liquid density (0° C, saturated liquid)	kg/L	1.350
Gas density	g/L	—
Critical temperature	°C	71.9
Critical pressure	MPa	2.68
	kg/cm ²	27.3
Flammability		Not applicable
Toxicity		Not applicable
Latent heat of vaporization (0° C, 1013 MPa)	kJ/kg	—
Maximum permissible concentration (ACGIH)	ppm	—
Explosive limit (in air)		—

Temperature — Vapor Pressure Curve

