



High-Purity HFC-32

Difluoromethane



Properties and Classification

Appearance: Colorless and odorless gas

UN Number: 3252

CAS Number: 75-10-5

Liquefied gas

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

Specification

Purity	vol%	Min. 99.99
Water	volppm	Max. 30
Acids as HCl	volppm	Max. 0.3
Other fluorocarbons	volppm	Max. 100
Air	volppm	Max. 100



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		1kg, 3kg, 5kg	35kg
Material		Manganese steel	

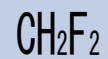
* Estimated values for when a standard valve is mounted on a standard cylinder.
The accuracy of these values is not guaranteed.

Valve

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

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Physical & Chemical Properties

Item	Unit	Data
Chemical formula		CH ₂ F ₂
Molecular weight		52.02
Boiling point	°C	-51.65
	°F	-61.1
Melting point	°C	-136
Liquid density (0° C, saturated liquid)	kg/L	1.055
Gas density (0° C, saturated liquid)	g/L	22.1
Specific gravity (air: 1)		1.7
Critical temperature	°C	78.1
Critical pressure	MPa	5.782
	kg/cm ²	57.5
Flammability		Not applicable
Toxicity		Not applicable
Latent heat of vaporization (0° C, 1013 MPa)	kJ/kg	45.34
Maximum permissible concentration (ACGIH)	ppm	—
Explosive limit (in air, 35° C, 101.3 kPa)		13.3~29.3

Temperature — Vapor Pressure Curve

