



Trifluoromethane. CHF_3 . Halocarbon-23. Fluoroform.

Product information High selective dry plasma etch of silicon nitride or silicon oxide etching.

Characteristics Colorless, liquefied gas with an ethereal odor. Poor warning properties at low concentrations. Asphyxiant in high concentrations. Gas density is heavier than air.

Physical data	Molecular weight	[g/mol]	70.014		
	Boiling point	at 1.013 bar [° C]	-82.16	at 14.5 psi [° F]	-115.87
Density	at 1.013 bar, 15° C [kg/m ³]	2.986	at 1 atm., 70° F [lb/ft ³]	0.182	
Vapor pressure	at 0° C [bar]	24.94	at 32° F [psi]	361.8	
	at 20° C [bar]	41.97	at 70° F [psi]	625.6	
Flammability range in air (% volume)	Non-combustible				

Product specification	Purity grade	Typical purity	Typical impurities [ppm]				
			CO ₂	Other Halocarbons	H ₂ O	Acidity (HF)	THC (CH ₄)
5.0N	≥99.999 %	<10	<10	<4	<0.4	<1	<20

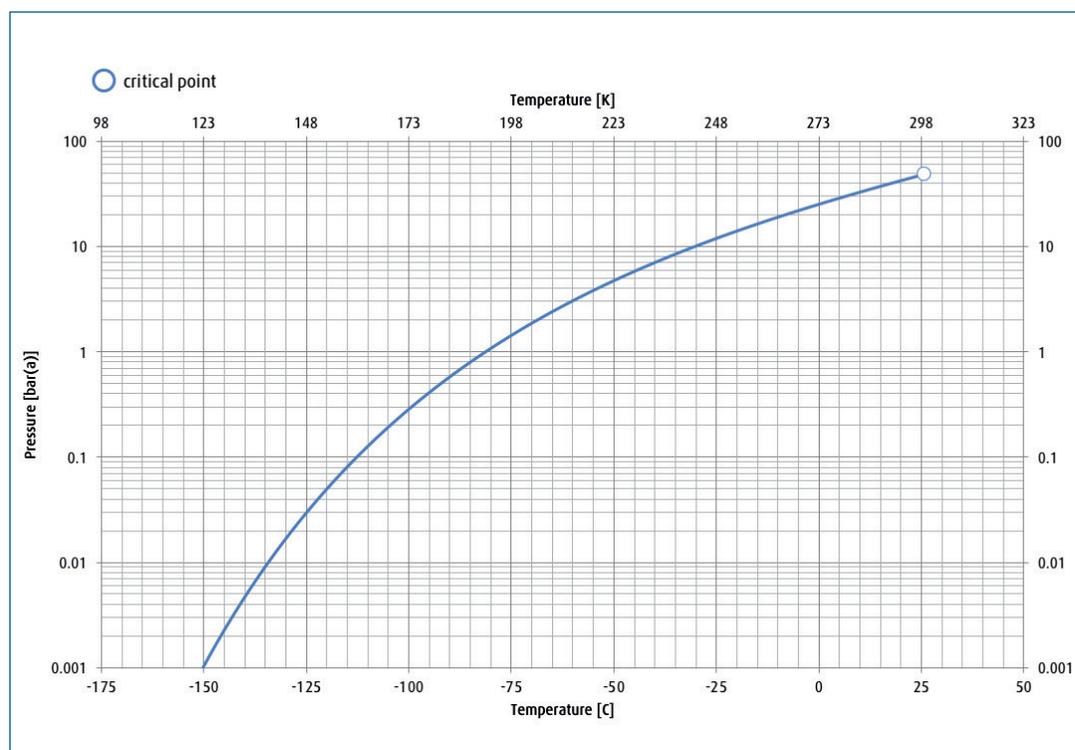
Contact our team for higher grade or different specification products.

Shipping information	UN number	CAS number	EC number	DOT label	Hazard labels required
	1984	75-46-7	200-872-4	Non-flammable gas	ADR Class 2, 2A DOT Class 2.2

Packaging information

	Package options	Cylinder designation	Cylinder internal volume	Cylinder material	Cylinder diameter	Cylinder height to valve outlet	Cylinder tare weight	Fill contents	Pressure (psig) @ 70 °F	Valve outlet	Valve material
US Grade 5.0N VLSI	Cylinder	302	46 L	Aluminum	9.8 in	53 in	98 lb	75 lb	635	CGA 716	SS
	Cylinder	200	44 L	Steel	9 in	52 in	133 lb	70 lb	635	CGA 716	SS
	Cylinder	152	29.5 L	Aluminum	8 in	49.5 in	49.5 lb	47 lb	635	CGA 716	SS
EU Grade 5.0N	Cylinder	40 L	40 L	Aluminum	237 mm	1,275 mm	42 kg	30 kg	41.6	DIN6	SS
	Other sizes available upon request										
China Grade 5.0N	Cylinder	47 L	47 L	Steel	237 mm	1,500 mm	65 kg	32 kg	41.8	CGA 716	SS
	Cylinder	44 L	44 L	Steel	228 mm	1,320 mm	65 kg	32 kg	41.8	CGA 716	SS

Vapor pressure curve



Additional information

The information, recommendations, and data contained in this publication are intended to give basic guidance for safe handling and use of gases. For more information, please refer to Safety Data Sheets. You can locate these through the [Linde Safety Data Sheet Search](#). It is essential for the safe use of gases that personnel are properly trained and are fully aware of the possible hazards. Further information and advice on any matter relating to the safe handling or use of these products may be obtained from the nearest Linde office.

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