



## Fluoromethane. CH<sub>3</sub>F. Halocarbon-41, methyl fluoride

**Product information** Fluoromethane is used in plasma etching of silicon compound films in semiconductor manufacturing.

**Characteristics** Flammable. Liquefied, colorless gas with a sweet odor. Gas density is heavier than air.

Physical data	Molecular weight	[g/mol]	34.03	
	Boiling point	at 1.013 bar [° C]	-78.4	at 14.5 psi [° F]
Density	at 1.013 bar, 15° C [kg/m <sup>3</sup> ]	1.452	at 1 atm., 70° F [lb/ft <sup>3</sup> ]	0.089
Vapor pressure	at 0° C [bar]	19.8	at 32° F [psi]	287.2
	at 20° C [bar]	33.56	at 70° F [psi]	500.5
Flammability range in air (% volume)		5.6 - 22.2		

Product specification	Purity grade	Typical purity	Typical impurities [ppm]		
			N <sub>2</sub>	O <sub>2</sub>	H <sub>2</sub> O
4N	≥99.99 %	≤50	≤5	≤2	

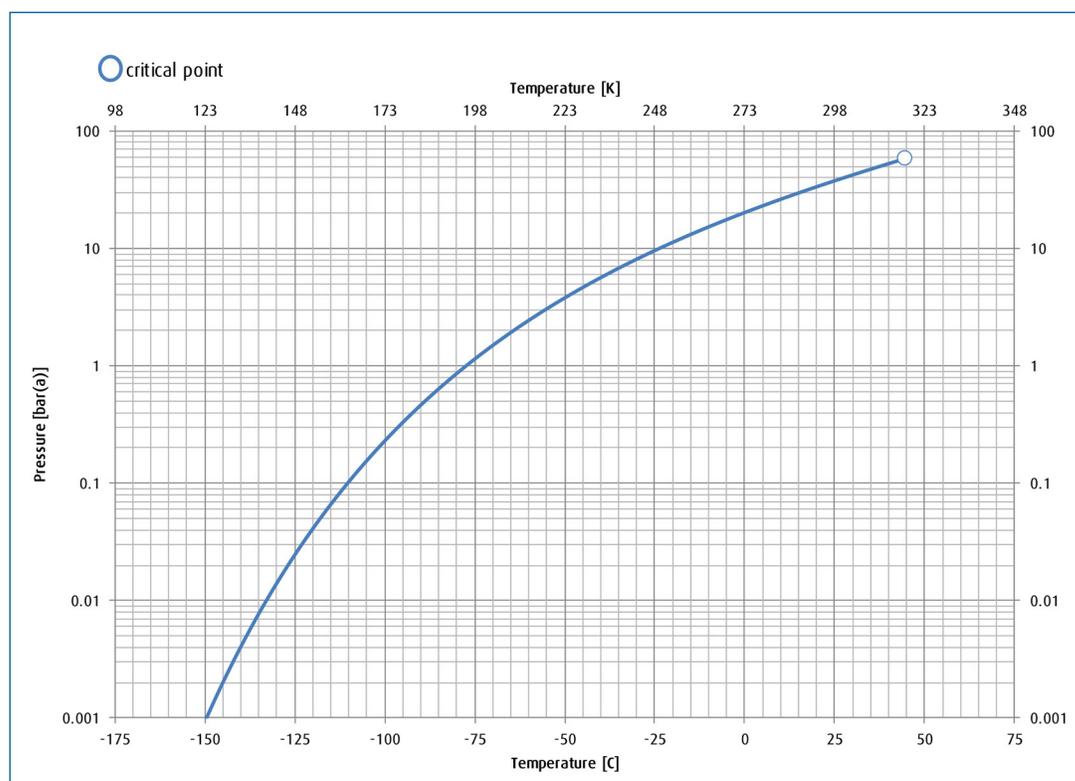
Contact our team for higher grade or different specification products.

Shipping information	UN number	CAS number	EC number	DOT label	Hazard labels required
	2454	593-53-3	209-796-6	Flammable gas	ADR Class 2, 2 F DOT Class 2.1

## 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	Cylinder	200	44L	Steel	9 in	52 in	130 lb	10 kg	538	CGA350/ CGA 724	SS
	Cylinder	152	29.5L	Aluminum	8 in	49.5 in	49.5 lb	7 kg	538	CGA350/ CGA 724	SS
	Cylinder	30	8L	Steel	6.75 in	19.75 in	28 lb	2 kg	538	CGA 724	SS
EU	No current offering										
China	Package options available upon request										

## 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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