

ELECTRONIC GAS

HALOCARBON 14 (Carbon Tetrafluoride, Tetrafluoromethane) CF₄

Carbon Tetrafluoride is a colorless, relatively non-toxic, non-flammable gas with a slight ether-like odor. It is a selective etching agent for many metals, metal silicides and oxides. It is shipped as a compressed gas.

Container Information			
CYLINDER SIZE	CONTENTS		Pressure @ 21.1°C
	LB	KG	
044	70	31.8	044: 2000 psig 016: 1800 psig 010: 1425 psig
016	20	9.1	CGA-580 / DISS-716 Tetrafluoromethane, 2.2, UN 1982
010	11	5.0	Valve Outlet DOT Shipping Description: DOT Shipping Labels DOT Guide No. CAS Registry No.
			Non-flammable Gas 12 75-73-0

Specifications		
COMPONENT TETRAFLUOROMETHANE	ULSI 99.999% min	VLSI 99.995% min
Carbon Monoxide	< 1 ppm	< 1 ppm
Nitrogen	< 5 ppm	< 20 ppm
Other Halocarbons	< 2 ppm	< 10 ppm
Oxygen	< 1 ppm	< 5 ppm
Water	< 1 ppm	< 1 ppm
SHELF LIFE: 2 years		

Physical Properties	
Molecular Weight	88.01
Flammability Limits in air	Non-flammable
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	3.05
Density, Gas @ 70°F(21.1°C), 1 atm	0.228lbs/ft ³ (3.65g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	4.4ft ³ /lb (0.275l/g)
Boiling Point @ 1 atm	-198.4°F (-128°C)
Melting Point @ 1 atm	-304.2°F (-186.8°C)
Critical Temperature	50.0°F (-45.6°C)
Critical Pressure	542.3 psia (37.4 bar)
Toxicity	Non-Toxic, asphyxiant only

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