

ELECTRONIC GASES

HALOCARBON-23 (Trifluoromethane, Fluoroform) CHF_3

Trifluoromethane is a colourless, nonflammable and liquefied gas. It is shipped as a liquefied gas under its own vapour pressure.

Container Information

CYLINDER SIZE	CONTENTS		Pressure@21.1°C Valve Outlet	635 psig CGA-660
	LB	KG		
044	70	31.8	DOT Shipping Description:	Trifluoromethane, 2.2, UN 1984
016	11	5.0	DOT Shipping Labels	Nonflammable Gas
			DOT Guide No.	12
			CAS Registry No.	75-46-7

Specifications

COMPONENT	ULSI	VLSI
HALOCARBON-23	99.999%min	99.995%min
Acidity (as HCl)	1 ppm	1 ppm
Air	2 ppm	10 ppm
Carbon Dioxide	2 ppm	5 ppm
Other Halocarbons	3 ppm	5 ppm
Methane	1 ppm	5 ppm
Water	1 ppm	20 ppm

SHELF LIFE: 2 years

Physical Properties

Molecular Weight	70.01
Flammability Limits in air	Nonflammable
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	2.430
Density, Gas @ 70°F(21.1°C), 1 atm	0.182lbs/ft³ (2.91g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	5.5ft³/lb (0.344ml/g)
Boiling Point @ 1 atm	-115.6°F (-82.0°C)
Melting Point @ 1 atm	-247.4°F (-155.2°C)
Critical Temperature	78.3°F (25.7°C)
Critical Pressure	697 psia (48.1 bar)
Toxicity	Causes dizziness in high concentrations