

ELECTRONIC GASES

HALOCARBON-116 (Hexafluoroethane) C_2F_6

Hexafluoroethane is a colorless, nontoxic, nonflammable liquefied gas. Its critical temperatures is at normal room temperature. It is an excellent dielectric. However, toxic decomposition products may be formed upon thermal or electrical breakdown.

Container Information

CYLINDER SIZE	CONTENTS		Pressure@21.1°C Valve Outlet	420 psig CGA-660
	LB	KG		
044	66	30	DOT Shipping Description:	Hexafluoroethane, 2.2, UN 2193
016	11	5	DOT Shipping Labels DOT Guide No. CAS Registry No.	Nonflammable Gas 12 76-16-4

Specifications

COMPONENT	ULSI	VLSI
HALOCARBON-116	99.999%min	99.997%min
Carbon Dioxide	< 1 ppm	< 1 ppm
Carbon Monoxide	< 1 ppm	< 1 ppm
Nitrogen	< 5 ppm	< 20 ppm
Oxygen	< 2 ppm	< 5 ppm
THC (as Methane)	< 1 ppm	< 2 ppm
SHELF LIFE: 2 years		

Physical Properties

Molecular Weight	138.01
Flammability Limits in air	Nonflammable
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	4.823
Density, Gas @ 70°F(21.1°C), 1 atm	0.358lbs/ft³ (5.73g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	2.79ft³/lb (0.174l/g)
Melting Point @ 75.1 psia (518 kPa)	-149.3°F (-100.7°C)
Boiling Point @ 1 atm	-108.8°F (-78.2°C)
Critical Temperature	67.5°F (19.7°C)
Critical Pressure	432 psia (29.8 bar)
Toxicity	Non-toxic, asphyxiant only