

ELECTRONIC GASES

HALOCARBON-318 (Octafluorocyclobutane) C_4F_8

Octafluorocyclobutane is a nonflammable, colourless, odorless, and tasteless gas. It is shipped as a liquefied gas under its own vapor pressure.

Container Information

CYLINDER SIZE	CONTENTS		Pressure@21.1°C Valve Outlet	25 psig CGA-660
	LB	KG		
044	44	32	DOT Shipping Description:	Octafluorocyclobutane 2.2, UN 1976
016	11	7	DOT Shipping Labels	Nonflammable Gas
008	6	2.72	DOT Guide No. CAS Registry No.	12 115-25-3

Specifications

COMPONENT	ULSI	VLSI
OCTAFLUOROCYCLOBUTANE	99.999%min	99.98%min
Air	2 ppm	100 ppm
Water	2 ppm	10 ppm
Other Halocarbons	5 ppm	100 ppm

SHALF UFE: 2 years

Physical Properties

Molecular Weight	200.04
Flammability Limits in air	Nonflammable
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	7.33
Density, Gas @ 70°F(21.1°C), 1 atm	0.541lb/ft ³ (8.66kg/lm ³)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	1.85ft ³ /lb (0.12m ³ /kg)
Boiling Point @ 1 atm	21.5°F (-5.8°C)
Critical Temperature	239.5°F (115.3°C)
Critical Pressure	404.1 psia (27.86 bar)
Toxicity	Non-toxic, asphyxiant only