ELECTRONIC GAS

HALOCARBON-218 (Perfluoropropane) C₃F₈

Perfluoropropane is a colorless, non-flammable, non-toxic gas with a faintly sweet odor. It has the highest ratio of fluorine to carbon and is used for plasma etching with excellent selectivity. It is shipped as liquefied gas under its own vapor pressure.

Container Information								
CYLINDER	CONTENTS		Pressure @ 21.1°C	100 psig				
SIZE	LB	KG	Valve Outlet	CGA-660 / DISS-716				
044	66	30	DOT Shipping Description:	Perfluoropropane, 2.2, UN 2424				
016	30	13.6	DOT Shipping Labels	Non-flammable Gas				
010	11	5.0	DOT Guide No. CAS Registry No.	12 76-19-7				

Specifications						
COMPONENT PERFLUOROPROPANE	ULSI 99.999% min	VLSI 99.99% min				
Carbon Dioxide	< 0.5 ppm	< 5 ppm				
Carbon Monoxide	< 0.5 ppm	< 5 ppm				
Nitrogen	< 2 ppm	< 40 ppm				
Other Halocarbons	< 5 ppm	< 20 ppm				
0xygen	< 1 ppm	< 10 ppm				
Water	< 1 ppm	< 10 ppm				
SHELF LIFE: 2 years						

Physical Properties				
Molecular Weight	188.02			
Flammability Limits in air	Non-flammable			
Specific Gravity,				
Gas @ 70°F(21.1°C), 1 atm(Air=1)	6.68			
Density, Gas @ 70°F(21.1°C), 1 atm	0.495lbs/ft³ (7.95g/l)			
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	2.02ft ³ /lb (0.125l/g)			
Melting Point @ 2 atm	-297.4°F (-183°C)			
Boiling Point @ 1 atm	-34.1°F (-36.7°C)			
Critical Temperature	161.4°F (71.9°C)			
Critical Pressure	389 psia (26.8 bar)			
Toxicity	Non-Toxic, asphyxiant only			