ELECTRONIC GAS

HALOCARBON-41 (Methyl Fluoride) CH₃F

Methyl fluoride is a colorless, flammable gas with an ether-like odor. It is used in plasma etching of silicon compound films. It is shipped as a liquefied gas under its own vapor pressure.

Container Information							
CYLINDER	CONTENTS		Pressure @ 21.1°C	538 psig			
SIZE	LB	KG	Valve Outlet	CGA-350 / DISS-716			
044	25	11.3	DOT Shipping Description:	Methyl Fluoride, 2.1, UN 2454			
016	6	2.7	DOT Shipping Labels DOT Guide No.	Flammable Gas 22			
7X	57g		CAS Registry No.	593-53-3			

Specifications						
COMPONENT METHYL FLUORIDE	VLSI 99.99% min	ELECTRONIC 99.9% min				
Nitrogen	< 50 ppm	< 150 ppm				
Oxygen	< 20 ppm	< 50 ppm				
Tetrafluoromethane	< 10 ppm	< 10 ppm				
Water	< 10 ppm	< 20 ppm				
SHELF LIFE: 2 years						

Physical Properties				
Molecular Weight	34.03			
Flammability Limits in air	Not determined			
Specific Gravity,				
Gas @ 70°F(21.1°C), 1 atm(Air=1)	1.195			
Density, Gas @ 70°F(21.1°C), 1 atm	0.088lbs/ft³ (1.41g/l)			
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	11.36ft ³ /lb (0.709l/g)			
Melting Point @ 2 atm	-223.2°F (-141.8°C)			
Boiling Point @ 1 atm	-109.1°F (-78.4°C)			
Critical Temperature	113°F (45°C)			
Critical Pressure	852 psia (58.8 bar)			
Toxicity	Non-Toxic, asphyxiant only			