

ELECTRONIC GAS

HALOCARBON-32 (Difluoromethane) CH₂F₂

Difluoromethane is a colorless, flammable gas with a slight ether-like odor. It is used in plasma etching of silicon layers. It is shipped as a liquefied gas under its own vapor pressure.

Container Information				
CYLINDER SIZE	CONTENTS		Pressure @ 21.1°C Valve Outlet	207 psig CGA-350 / DISS-716
	LB	KG		
044	60	27.2	DOT Shipping Description:	Difluoromethane, 2.1, UN 3252
016	20	9.1	DOT Shipping Labels DOT Guide No.	Flammable Gas 22
010	10	4.5	CAS Registry No.	75-10-5

Specifications	
COMPONENT DIFLOROMETHANE	ELECTRONIC 99.99% min
Acidity (as HCl)	< 0.1 ppm
Carbon Monoxide	< 40 ppm
Nitrogen	< 10 ppm
Oxygen	< 10 ppm
SHELF LIFE: 1 year	

Physical Properties	
Molecular Weight	52.02
Flammability Limits in air	14-31%
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	1.8
Density, Gas @ 70°F(21.1°C), 1 atm	0.135lbs/ft ³ (2.16g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	7.43ft ³ /lb (0.464l/g)
Melting Point @ 2 atm	-214.6°F (-137°C)
Boiling Point @ 1 atm	-61.1°F (-51.7°C)
Critical Temperature	172.1°F (77.9°C)
Critical Pressure	841 psia (58 bar)
Toxicity LC ₅₀ RAT ₂ 1 hour	152000 ppm