

METHYLSILANE

A flammable, colorless gas that is normally shipped as a liquefied gas. Methylsilane is used in the epitaxial CVD of Si-Ge-C films. Methylsilane is usually supplied as a pure liquefied gas, or in mixtures with hydrogen, argon, helium, or nitrogen.

UHP GRADE - - - 99.98 vol. % min.
(Excluding other methylsilanes)

GAS PHASE IMPURITY	MAXIMUM CONCENTRATION	GAS PHASE IMPURITY	MAXIMUM CONCENTRATION
N ₂	10 ppmv	SiH ₄	50 ppmv
Ar + O ₂	2 ppmv	Other Methylsilanes	50 ppmv
CO ₂	10 ppmv	Chlorosilanes	50 ppmv
CH ₄	50 ppmv		

ORDERING INFORMATION

CYLINDER SIZE*	CONTENTS (kgs)	GROSS WEIGHT (kgs)	CAS No.	992-94-9
			Pressure @ 20°C	193 psig
49	12	77	Valve Outlet**	CGA-350 or 632
30	7.3	33	DOT Class (Label)	2.1 (Flammable Gas)
16	4	28	UN Number	3161(Liquefied) 1954 (Compressed)
6	1.45	10	DOT Shipping Name (If Liquid Present)	Liquefied Gas, Flammable, n.o.s. (Methylsilane)
3	0.675	5	DOT Shipping Name (No Liquid Present)	Compressed Gas, Flammable, n.o.s. (Methylsilane)
LB	0.10	1.5		

* Other cylinder sizes are available - please inquire.

** DIN Outlet is also available

TECHNICAL INFORMATION

MAJOR HAZARDS	Flammable	MOLECULAR WEIGHT	46.145
FLAMMABLE LIMITS	LFL = 4.3%, UFL = NA	SPECIFIC VOLUME @ 21°C	0.5228 l/g
EXPOSURE LIMIT	5 ppm (estimated, see MSDS)	BOILING POINT @ 1 atm	-57°C
ODOR	Repulsive	MELTING POINT	-156.4°C
SYNONYMS	1MS, monomethylsilane, silylmethane	CHEMICAL FORMULA	CH ₃ SiH ₃