

GERMANE - (GeH₄)

5.0

DESCRIPTION : A colorless, highly toxic, flammable gas which may ignite spontaneously in air.	APPLICATIONS : Deposition of epitaxial and amorphous silicon-germanium alloys.	ADR Item No. : 2, 2 TF
		ADR Label 2.3 Toxic gas Label 2.1 Flammable gas
		MSDS REFERENCE : 060
		CHEMICAL ABSTRACTS : 07782-65-2
		UN No. : 2192

PRODUCT		PRESSURE BARG	VALVE TYPE	VALVE OUTLET DIN 477 No	VALVE MATERIALS OF CONSTRUCTION
CYLINDER	CONTENTS				
10H	150 g	3,5	Diaphragm	1	316L SS

PRODUCT CHARACTERISTICS	PRAXAIR SPECIFICATIONS	METHOD OF ANALYSIS (SEE KEY)
MINIMUM PURITY	99.999 %	
Water (H ₂ O)	≤ 1 ppm	E
Oxygen (O ₂)	≤ 0,5 ppm	S
Nitrogen (N ₂)	≤ 2 ppm	S
Methane (CH ₄)	≤ 1 ppm	B/J
Carbon Monoxide (CO)	≤ 1 ppm	S
Carbon Dioxide (CO ₂)	≤ 2 ppm	S
Digermane	≤ 20 ppm	H
Trigermane	≤ 1 ppm	A
Germoxanes	≤ 5 ppm	A
Chlorogermanes	≤ 5 ppm	A

Notes :

- Assay is determined by exclusion of hydrogen and other germanes.

- ◆ Cylinder sizes, contents, valve types and valve connections other than those indicated above are available on request.
- ◆ All expressions for concentration are for gas phase, by volume unless otherwise noted.
- ◆ MSDS Ref.: More detailed Safety Information can be obtained from the Material Safety Data Sheet No. 060

Key to Analytical Techniques			
A	Gas Chromatograph with Thermal Conductivity Detector	D	Specific Oxygen Analyzer
B	Gas Chromatograph with Flame Ionization Detector	E	Specific Water Analyzer
C	Gas Chromatograph with Ultrasonic Detector	F	Total Hydrocarbon Analyzer
		G	Infrared
		H	Proprietary
		I	Gas Chromatograph with Helium Ionization Detector
		J	Flame Ionization with Methanizer
		K	Gas Chromatograph - Photo Ionization
		L	Gas Chromatograph - Flame Photometric
		M	Mass Spectrometry
		N	Wet Chemical
		O	Gas Chromatograph with Discharge Ionization Detector
		P	Gas Chromatograph with Methanizer Carbonizer
		Q	Gas Chromatograph with Electrolytic Conductivity
		R	Gas Chromatograph with Reduction Gas Analyzer
		S	Gas Chromatograph with High Frequency Discharge Detector

IMPORTANT

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