



Germane. GeH₄

Product information Germane is a germanium precursor for silicon germanium and pure germanium thin films.

Characteristics Colorless compressed gas with pungent odor.

Physical data	Molecular weight	[g/mol]	76.62	
	Boiling point	at 1.013 bar [°C]	-88.5	at 14.5 psi [°F]
Density	at 1.013 bar, 15 °C [kg/m ³]	3.28	at 1 atm., 70 °F [lb/ft ³]	
Vapor pressure	at 0 °C [bar]	26.5	at 32 °F [psi]	
	at 20 °C [bar]	45	at 70 °F [psi]	
Flammability range in air (% volume)	Pyrophoric			

Shipping information	UN number	CAS number	EC number	DOT label	Hazard labels required
	UN2192	7782-65-2	231-961-6	Toxic-Inhalation Hazard Zone B	ADR Class 2.3 DOT Class 2.3

Product specification	Purity grade	Typical purity (by weight)	Typical impurities [ppm]										
			N ₂	O ₂ +Ar	CO ₂	H ₂	H ₂ O	CO	THC	Ge ₂ H ₆	Ge ₃ H ₈	Germoxanes	Germanium Chlorides
5.0N	≥99.999 %	≤2	≤0.5	≤2	≤50	≤1	≤1	≤1	≤20	≤1	≤5	≤5	

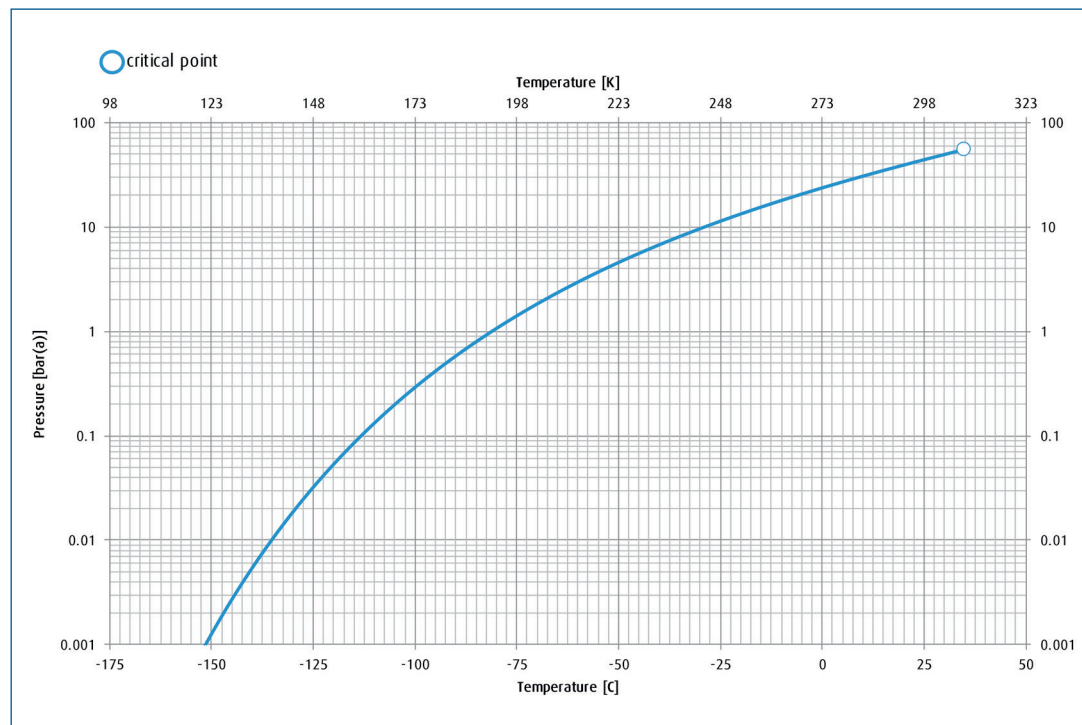
→ [Germane. Product datasheet.](#)

Packaging information

	Package options	Cylinder designation	Cylinder internal volume	Cylinder material	Cylinder diameter	Cylinder height to valve outlet	Cylinder tare weight	Pressure (psig) @ 70°	Valve outlet ⁽²⁾	Valve material
US	Cylinder (mixes only)	82	15.9L	Aluminum	7.5 in	32 in	32 lb	1800	CGA632	SS
	Cylinder (mixes only)	32	5.9L	Aluminum	6.8 in	15.6 in	15 lb	1800	CGA632	SS
EU	Cylinder	40L	40L	Aluminum	237 mm	1275 mm	42 kg	2190	DIN1	SS
China	Cylinder	29.5L	29.5L	Aluminum	203.2 mm	49 mm	22.6 kg	1900	CGA632	SS

Please inquire about other package size availability

Vapor pressure curve



Additional information

The information, recommendations, and data contained in this publication are intended to give basic guidance for safe handling and use of gases. For more information, please refer to Safety Data Sheets. You can locate these through the [Linde Safety Data Sheet Search](#). It is essential for the safe use of gases that personnel are properly trained and are fully aware of the possible hazards. Further information and advice on any matter relating to the safe handling or use of these products may be obtained from the nearest Linde office.

Please visit www.linde.com/electronics for Linde Electronics sales offices information.