



Germane (GeH₄)

GeH₄ is a flammable and toxic gas. It can be used for chemical reagent, high-purity germanium production. It can be used for solar cells, silicon/germanium devices, ion implantation and doping process in the field of semiconductor and photonic.

General Information

Product Name	Germane (GeH ₄)	CAS Number	7782-65-2
Grade	99.999%	Formula Weight	76.64

Grade-99.999 vol.% min

Gas Phase Impurity	H ₂	Ge ₂ H ₆	Germoxanes	Chlorogermanes	N ₂	CO ₂
Maximum Concentration	<50 ppmv	<20 ppmv	<5 ppmv	<5 ppmv	<2 ppmv	<2 ppmv
Gas Phase Impurity	CO	CH ₄	H ₂ O	Ge ₃ H ₈	O ₂ +Ar	/
Maximum Concentration	<1 ppmv	<1 ppmv	<1 ppmv	<1 ppmv	<0.5 ppmv	/

Standard Package

Cylinder Size	20 L Aluminum Cylinder	47.5 L Aluminum Cylinder	440 L Carbon Steel Cylinder
Fill Weight (lbs)	2.2	4.41	33
Fill Weight (kgs)	1	2	15
Valve Connection	CGA 350 Steel	CGA 632 Steel	CGA 632 Steel
Cylinder Dimensions (in)	7.9*39.4	9.8*53.9	24*83
Cylinder Dimensions (cm)	20*90	25*137	610*2110

Technical Information

Major Hazards	Toxic and flammable	Odor	Pungent odor and garlic odor
Flammable Limits	LFL=0.5% (est.), UFL=100%	Boiling Point @ 1atm	-88.4°C
Exposure Limit	TLV-twa=0.2 ppm	Specific Volume @ 21°C	0.316 l/g

Vital Materials Co., Limited

Add: Suite 4901-4902, International Metropolitan Plaza, No.68 Huacheng Avenue, Guangzhou, Guangdong China 510623
Tel: (+86) 020 - 83511906 Fax: (+86) 020 - 83511907 Email: sales@vitalchem.com Website: www.vitalchem.com/en/