



Arsine (AsH₃)

AsH₃ is a toxic and flammable gas. It can be used for solar cells, polysilicon, N-type doping process of GaAs diodes, as well as CVD (Chemical Vapor Deposition) process, epitaxy, and ion implantation or diffusion. In addition, it can be used in the growth of GaAs and other III-V semiconductor materials.

General Information

Product Name	Arsine (AsH ₃)	CAS Number	7784-42-1
Grade	99.9995%	Formula Weight	77.95

Grade-99.9995 vol.% min

Gas Phase Impurity	N ₂	H ₂ O	O ₂	CO ₂	Mathane	CO
Maximum Concentration	<2 ppmv	<2 ppmv	<1 ppmv	<0.5 ppmv	<0.5 ppmv	<0.1 ppmv

Standard Package

Cylinder Size	47 L Aluminum Cylinder	Valve Connection	CGA 350/DISS632
Fill Weight (lbs)	33	Cylinder Dimensions (in)	9.3*54.1
Fill Weight (kgs)	15	Cylinder Dimensions (cm)	23.5*137.5

Technical Information

Major Hazards	Toxic and flammable	Odor	Garlic odor
Flammable Limits	LFL=4.5% (est.), UFL=78%	Boiling Point @ 1atm	-62.48°C
Exposure Limit	TLV-twa=0.05 ppm	Specific Volume @ 21°C	0.309 l/g

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