



# Phosphine (PH<sub>3</sub>)

PH<sub>3</sub> 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.

## General Information

Product Name	Phosphine (PH <sub>3</sub> )	CAS Number	7803-51-2
Grade	99.9997%	Formula Weight	34.0

## Grade-99.9997 vol.% min

Gas Phase Impurity	N <sub>2</sub>	H <sub>2</sub> O	O <sub>2</sub>	CO <sub>2</sub>	CO	Mathane
Maximum Concentration	<1 ppmv	<1 ppmv	<0.1 ppmv	<0.1 ppmv	<0.1 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	Fishy odor and pungent odor
Flammable Limits	LFL=1.6% (est.), UFL=98%	Boiling Point @ 1atm	-87.7°C
Exposure Limit	TLV-twa=0.3 ppm	Specific Volume @ 21°C	0.709 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/