

Phosphine

Transportation Information

UN Number: 2199



United States of America



Canada



Mexico

Shipping Name	Phosphine	Phosphine	Phosphine
Hazard Class	2.3 (2.1)	2.3 (2.1)	2.3
Label	Toxic Gas, Flammable Gas	Toxic Gas, Flammable	Toxic Gas, Flammable Gas

Formula

PH₃

MSDS Reference

P-4643

CAS Number

7803 - 51 - 2

General Description

Colorless, highly toxic, flammable gas with a disagreeable, garlic-like odor.

Product and Package Information

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content	Regulator Recommendations See Section F, Page 1
PH 6.0SP	6.0 Semiconductor Process Gas	99.9999% Ar + O ₂ < 0.1 ppm ⁽¹⁾ H ₂ O < 0.1 ppm N ₂ < 0.1 ppm C ₂ - C ₅ < 0.1 ppm ⁽²⁾ CO ₂ < 0.1 ppm CO < 0.1 ppm CH ₄ < 0.1 ppm AsH ₃ < 0.1 ppm	NPK	27 lb/12.25 kg	Gas Cabinet 7000 Series: Semiconductor
PH 5.7SP	5.7 Semiconductor Process Gas	99.9997% Ar + O ₂ < 0.5 ppm ⁽¹⁾ H ₂ O < 1 ppm N ₂ < 1 ppm C ₂ - C ₅ < 0.1 ppm ⁽²⁾ CO ₂ < 0.1 ppm CO < 0.1 ppm CH ₄ < 0.1 ppm AsH ₃ < 0.1 ppm	UK	20 lb/9.07 kg	Gas Cabinet 7000 Series: Semiconductor

⁽¹⁾ Ar + O₂ calculated as 28.1% of the N₂ concentration.

⁽²⁾ Defined as Ethane (C₂H₆), Propane (C₃H₈), Butane (C₄H₁₀) and Pentane (C₅H₁₂).

Note: Phosphine is available in mixtures with balance gases of Argon, Helium, Hydrogen, Nitrogen and Silane. Please contact your Praxair representative to discuss your mixture requirements.

When ordering, please add the desired cylinder style to the end of the above part number.
Add "D" for DISS connection (PH 6.0SP-**NPKD**)



Cylinder Information

Cylinder Style	Connection CGA/DISS	Pressure psig/bar	Gross Weight lb/kg
NPK	350/ 632	593/41	160/73
UK	350/ 632	593/41	153/69

See Section E for additional information on Praxair's Semiconductor product line (pages E45-E47)

See our complete line of gas delivery systems in Section F, including gas cabinets, process panels, and controllers (pages F50-F54)