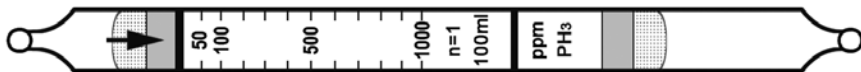


Phosphine PH₃

No. H-10-116-25



	Extended Range	Standard Range	Extended Range
Range (ppmv)	25 - 500	50 - 1000	100 - 2000
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 1.5	1.5	1
Correction Factor	0.5	1	2

Precision (Relative Standard Deviation)*: ≤±10%

Linearity with No. of Pump Strokes: r² = 1.000

Humidity: No effect 5 - 80% RH.

Temperature Range: No effect between 0-40°C (32 - 104°F)

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Yellow

Reaction Principle: 2PH₃ + 6HgCl₂ + 3H₂O → Hg₃P₂•3HgCl₂•3H₂O + 6HCl

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
H ₂ S	200	140 †
SO ₂	3940	0
NO	100	0
NH ₃	100	0
CO	250	0
CO ₂	50000	0
CH ₄	25000	0
Hexane	1500	0
Toluene	100	0

* Data based on Honeywell pumps and tubes used in standard range.

† Interferes in mixtures; may result in transient light brown H₂S response.

Other Possible Interferences: Strongly reducing gases.

DATA SHEETS