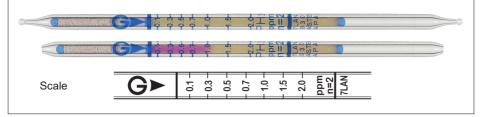
Phosphine PH3

No.7LAN



Performance

	0.044 0.00	0.001.01			0.01.01	
Measuring range	0.04 to 0.06 ppm	0.06 to 0.1 ppm	0.1 to 2.0 ppm	2.0 to 3.8 ppm	3.8 to 8.4 ppm	
Number of pump strokes	4 (400 mL)	3 (300 mL)	2 (200 mL)	1 (100 mL)	1/2 (50 mL)	
Correction factor	0.4	0.6	1	1.9	4.2	
Sampling time	6 min	4.5 min	3 min	1.5 min	45 sec	
Detecting limit : 0.015 ppm (4 pump strokes)						
Colour change :		$Yellow \rightarrow Pink$				
Operating conditions :		Temperature 0 to 40 ℃ (32 to 104 °F) correction not used				
		Relative humidity 0 to 90 % correction not used				
Relative standard deviation :		10 % (for 0.1 to 2.0 ppm)				
Tube quantity and number of	tests per box: 1	10 tubes for 10 tests				
Shelf life :		24 months				
Detecting limit : Colour change : Operating conditions : Relative standard deviation : Tube quantity and number of tests per box :		Yellow \rightarrow Pink Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 0 to 90 % correction not used 10 % (for 0.1 to 2.0 ppm) 10 tubes for 10 tests				

Reaction principle

Phosphine reacts with the reagent to form intermediate material which stains indicator pink.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Arsine	≧ 0.05 ppm	¦ +	Pink (≧ 0.03 ppm)
Diborane	10 times	No	No (90 ppm)
Hydrogen chloride	≦ 2000 ppm	No	No (≦ 2000 ppm)
Hydrogen sulphide	≦ 1 ppm	No	No (≦ 1 ppm)
Monosilane	≧ 1 ppm	+	No (≦ 3 ppm)
Ammonia	93 ppm	No	No (188 ppm)
Carbon dioxide	10 %	No	No

Calibration gas generation

High pressure gas cylinder method