

Performance

Measuring Range	2.5 to 5 ppm	5 to 100 ppm		
Number of Pump Strokes	8 4			
Correction Factor	1/2	1		
Sampling Time	3 minutes per pump stroke			
Detecting Limit	0.5 ppm (n=8)			
Colour Change	Pale yellow ─► White			
Reaction Principle	1,3-Butadiene reacts with palladium sulphate and ammonium molybdate to produce white compound. CH₂:CHCH:CH₂ + (NH₄) ₂MoO₄ + PdSO₄ → White product			
Coefficient of Variation	10% (for 5 to 20 ppm), 5% (for 20 to 100 ppm)			
Shelf Life	3 Years			
Corrections for temperature & humidity	Temperature correction is unnecessary			
Store the tubes at cool and dark place.				

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Acetylene, Hydrogen cyanide	-	Plus error	Discolours to white
Carbon monoxide, Hydrogen	-	Plus error	Discolours to blue for whole layer
Hydrogen chloride	-	Plus error	Discolours to pink stain
Hydrogen sulphide	-	Plus error	Discolours to black
Ethylene, Propylene, Butylene	-	Plus error	Discolours to blue
Butane, Pentane	-	Plus error	Discolours to blue for whole layer

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
1,3-Pentadiene	8.5	4	42.5 to 850 ppm

Calibration gas generation Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
2ppm	-	2.0 to 12.0 %