

**Performance**

Measuring Range	(25) to 800 ppm	800 to 1680 ppm
Number of Pump Strokes	1	1/2
Correction Factor	1	2.1
Sampling Time	3 minutes per pump stroke	
Detecting Limit	5 ppm (n=1)	
Colour Change	Pale yellow → Blue	
Reaction Principle	Ethylene reacts with palladium sulphate to form an additive compounds, which reacts with ammonium molybdate to yield molybdenum blue. $\text{CH}_2:\text{CH}_2 + (\text{NH}_4)_2\text{MoO}_4 + \text{PdSO}_4 \longrightarrow \text{Molybdenum blue}$	
Coefficient of Variation	10% (for 25 to 200 ppm), 5% (for 200 to 800 ppm)	
Shelf Life	3 Years	
Corrections for temperature & humidity	Unnecessary	
Store the tubes at cool and dark place.		

**Possible coexisting substances and their interferences**

Substance	Concentration	Interference	Change colour by itself
Ammonia, Hydrogen cyanide	-	Plus error	Discolour to white
Carbon monoxide, Hydrogen	-	Plus error	Discolour to blue for whole layer
Hydrogen chloride	-	Plus error	Discolours to pink
Hydrogen sulphide	-	Plus error	Discolours to black
Butadiene	-	Plus error	Discolours to white
Butane, Pentane	-	Plus error	Discolour to blue for whole layer
Butylene, Propylene	≥1/4	Plus error	Discolour to blue

**Other substance measurable with this detector tube**

Substance	Correction Factor	Pump Strokes	Measuring Range
Acetylene	1.3	1	32.5 to 1040 ppm

**Calibration gas generation** High pressure gas cylinder method

TLV-TWA	TLV-STEL	Explosive range
200 ppm	-	2.7 to 36%