



Performance

Measuring Range	0.05 to 0.25 mg/m ³	0.25 to 6.0 mg/m ³	6.0 to 13.2 mg/m ³
Number of Pump Strokes	5	1	1/2
Correction Factor	1/5	1	2.2
Sampling Time	1.5 minutes per pump stroke		
Detecting Limit	0.01 mg/m ³ (n=5)		
Colour Change	White → Pale Orange		
Reaction Principle	Mercury reacts with copper iodide to form Cu-Hg complex, which is pale orange colour. $\text{Hg} + \text{Cu}_2\text{I}_2 \longrightarrow \text{Cu}_2(\text{HgI}_4) + 2\text{Cu}$		
Coefficient of Variation	10% (for 0.25 to 2 mg/m ³), 5% (for 2 to 6 mg/m ³)		
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
Chlorine	-	Plus error	Produces pale orange stain
Nitrogen dioxide	-	Plus error	Produces pale orange stain
Hydrogen sulphide	-	Plus error	Produces pale orange for whole layer of the reagent

Calibration gas generation Vapour pressure method

TLV-TWA	TLV-STEL	Explosive range
0.025 mg/m ³	-	-