

**Performance**

Measuring Range	0.125 to 0.25ppm	0.25 to 4.0ppm	4.0 to 8.8ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	1/2	1	2.2
Sampling Time	1.5 minutes per pump stroke		
Detecting Limit	0.05 ppm (n=2)		
Colour Change	Yellow → Purple		
Reaction Principle	Trichloroethylene is decomposed by nascent oxygen by oxidizing agent to liberate hydrogen chloride which discolours indicator to reddish purple. $\text{Cl}_2\text{C:CHCl} + \text{PbO}_2 + \text{H}_2\text{SO}_4 \longrightarrow \text{HCl}$ $\text{HCl} + \text{Basic Compound} \longrightarrow \text{Chloride}$		
Coefficient of Variation	10% (for 0.25 to 1 ppm), 5% (for 1 to 4 ppm)		
Shelf Life	2 Years		
Corrections for temperature & humidity	Temperature correction is necessary		

Store the tubes in the refrigerator to keep at 10°C (50°F) or below.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Hydrogen chloride, Chlorine, Bromine	≥1/2 time	Plus error	Produce bluish purple stain
Tetrachloroethylene	≥1/2 time	Plus error	Produce bluish purple stain
1,1,1-Trichloroethane	≤80 ppm or less	No effect	No discoloration up to ≤80 ppm
Toluene, Xylene	-	No effect	No discoloration

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
1,2-Dichloroethylene	1.5	1	0.375 to 6 ppm

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
10ppm	25ppm	-