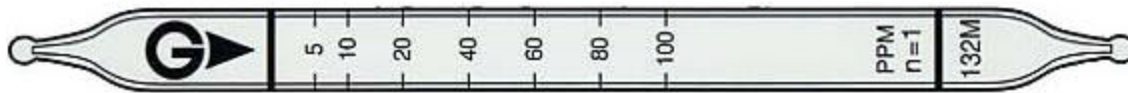


Trichloroethylene Cl₂C:CHCl**NO.132M****Performance**

Measuring Range	2 to 5ppm	5 to 100ppm	100 to 250ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	0.4	1	2.5
Sampling Time	1 minute per pump stroke		
Detecting Limit	0.4 ppm (n=2)		
Color Change	Yellow → Reddish Purple		
Reaction Principle	Trichloroethylene is decomposed by nascent oxygen by oxidizing agent to liberate hydrogen chloride which discolors 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 5 to 20 ppm), 5% (for 20 to 100 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 (NOTE)

Substance	Concentration	Interference	Change color by itself
Nitric Oxide, Nitrogen dioxide	-	No effect	No discoloration
Hydrogen chloride, Chlorine, Bromine	-	Plus error	Produce reddish purple stain
Acetone	200 ppm	No effect	No discoloration
Unsaturated Halogenated HCs	-	Plus error	Produces reddish purple stain
Aromatic hydrocarbons	100ppm	Minus error	No discoloration

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
50ppm	100ppm	-

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