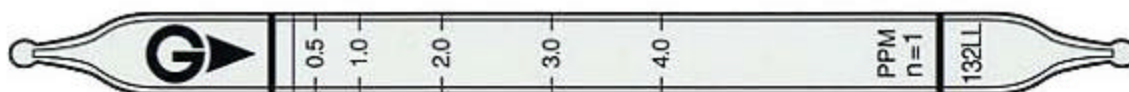


**Trichloroethylene****NO.132LL****Performance**

<b>Measuring Range</b>	0.125 to 0.25ppm	0.25 to 4.0ppm	4.0 to 8.8ppm
<b>Number of Pump Strokes</b>	2	1	1/2
<b>Correction Factor</b>	1/2	1	2.2
<b>Sampling Time</b>	1.5 minutes per pump stroke		
<b>Detecting Limit</b>	0.05 ppm (n=2)		
<b>Color Change</b>	Yellow $\longrightarrow$ Purple		
<b>Reaction Principle</b>	Trichloroethylene is decomposed by nascent oxygen by oxidizing agent to liberate hydrogen chloride which discolors indicator to reddish purple. $\text{Cl}_2\text{C}:\text{CHCl} + \text{PbO}_2 + \text{H}_2\text{SO}_4 \longrightarrow \text{HCl}$ $\text{HCl} + \text{Basic Compound} \longrightarrow \text{Chloride}$		
<b>Coefficient of Variation</b>	10% (for 0.25 to 1 ppm), 5% (for 1 to 4 ppm)		
<b>Shelf Life</b>	2 Years		
<b>Corrections for temperature &amp; humidity</b>	Temperature correction is necessary		
<b>Store the tubes in the refrigerator to keep at 10 °C (50°F) or below.</b>			

**Possible coexisting substances and their interferences** (NOTE)

Substance	Concentration	Interference	Change color by itself
Hydrogen chloride, Chlorine, Bromine	1/2 time	Plus error	Produce purple stain
Tetrachloroethylene	1/2 time	Plus error	Produce 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	0.4 to 6 ppm

**Calibration gas generation** Diffusion tube method

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



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