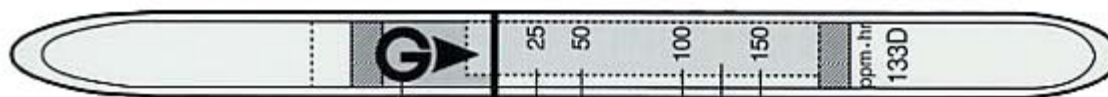


**Tetrachloroethylene**  $\text{Cl}_2\text{C}:\text{CCl}_2$ **NO.133D****Performance**

<b>Measuring Range</b>	3 to 150 ppm
<b>Sampling Hours</b>	1 to 8 hours
<b>Color Change</b>	Yellow $\longrightarrow$ Purple
<b>Reaction Principle</b>	Perchloroethylene is oxydized by sulfuric acid to generate hydrogen chloride to change the indicator to purple. $\text{Cl}_2\text{CCl}_2 + \text{PbO}_2 + \text{H}_2\text{SO}_4 \longrightarrow \text{HCl}$ $\text{HCl} + \text{Base} \longrightarrow \text{Chloride products}$
<b>Coefficient of Variation</b>	15% (for 25 to 50 ppm-hr), 10% (for 50 to 150 ppm-hr)
<b>Shelf Life</b>	1 Year
<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)

<b>Substance</b>	<b>Interference</b>	<b>Change color by itself</b>
Hydrogen chloride, Chlorine	Plus error	Produce purple discoloration.
1,2-Dichloroethylene, Trichloroethylene	Plus error	Produce purple discoloration.
Toluene, Xylene	No effect	No discoloration

**Calibration gas generation** Diffusion tube method

<b>TLV-TWA</b>	<b>TLV-STEL</b>	<b>Explosive range</b>
25ppm	100ppm	-