



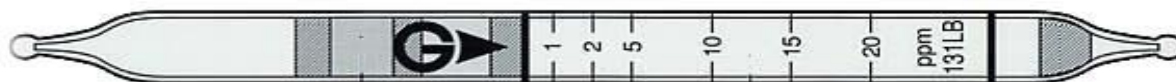
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## Gastec Tube Datasheet

**Vinyl Chloride**

CH<sub>2</sub>:CHCl

**NO.GAS131LB**



### Performance

<b>Measuring Range</b>	0.25 to 1 ppm	1 to 20 ppm	20 to 70 ppm
<b>Number of Pump Strokes</b>	4	2	1
<b>Correction Factor</b>	1/4	1	3.5
<b>Sampling Time</b>	1.5 minutes per pump stroke		
<b>Detecting Limit</b>	0.05 ppm (n=4)		
<b>Colour Change</b>	Yellow → Purple		
<b>Reaction Principle</b>	Vinyl Chloride is oxidized and produces an intermediate product to discolour the reagent to purple stain. $\text{CH}_2:\text{CHCl} + \text{PbO}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{HCl}$ $\text{HCl} + \text{Base} \rightarrow \text{Purple}$		
<b>Coefficient of Variation</b>	10% (for 1 to 5 ppm), 5% (for 5 to 20 ppm)		
<b>Shelf Life</b>	Up to 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

Substance	Concentration	Interference	Change colour by itself
Chlorine, Hydrogen chloride	≥1/10 time	Plus error	Produce purple stain
Alcohols, Esters, Ketones	-	No effect	No discoloration
1,2-Dichloroethylene	≥1/10 time	Plus error	Produce purple stain
Trichloroethylene, Tetrachloroethylene	≥1/10 time	Plus error	Produce purple stain
Aromatic hydrocarbons	-	No effect	No discoloration

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