



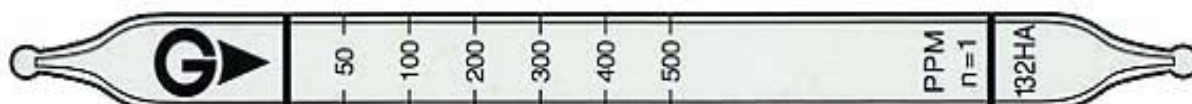
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Gastec Tube Datasheet

Trichloroethylene

Cl₂C:CHCl

NO.GAS132HA



Performance

Measuring Range	20 to 50 ppm	50 to 500 ppm	500 to 1300 ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	0.4	1	2.6
Sampling Time	45 seconds per pump stroke		
Detecting Limit	4 ppm (n=2)		
Colour Change	Yellow → Reddish 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 50 to 100 ppm), 5% (for 100 to 500 ppm)		
Shelf Life	Up to 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.			

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Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour 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
1,1,1-Trichloroethane	-	Plus error	Produce reddish purple at ≥ 3000 ppm
Unsaturated Halogenated Hydrocarbons	-	Plus error	Produces reddish purple stain
Aromatic hydrocarbons	≥ 100 ppm	Minus error	No discoloration

Calibration gas generation Diffusion tube method

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
1,2-Dichloroethylene	1.6	1	80 to 800 ppm
1,3-Dichloropropene	0.9	2	45 to 450 ppm

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