

Tetrachloroethylene

NO.GAS133HA

Gastec Tube Datasheet

Cl₂C:CCl₂



Performance				
Measuring Range	7 to 20 ppm	20 to 300ppm	300 to 900ppm	
Number of Pump Strokes	2	1	1/2	
Correction Factor	1/3	1	3	
Sampling Time	45 seconds per pump stroke			
Detecting Limit	0.5 ppm (n=2)			
Colour Change	Yellow → Reddish purple			
Reaction Principle	Tetrachloroethylene is decomposed by oxidizing agent to liberate Hydrogen Chloride, which produce reddish purple stain. Cl ₂ C:CCl ₂ + PbO ₂ + H ₂ SO ₄ → HCl HCl + Base → Chloride			
Coefficient of Variation	10% (for 20 to 100 ppm), 5% (for 100 to 300 ppm)			
Shelf Life	Up to 2 Years			
Corrections for temperature & humidity	Temperature correction is necessary			
Store the tubes in the refrige	erator to keep at 10°C (5	0°F) or below		

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Chlorine, Bromine, Hydrogen Chloride	-	Plus error	Produce reddish purple
1,1,1-Trichloroethane	<u>≥</u> 3000 ppm	Plus error	Produce reddish purple stain
Trichloroethylene	-	Plus error	Produce reddish purple

Calibration gas generation Diffusion tube method

