

**Performance**

Measuring Range	0.1 to 0.2 ppm	0.2 to 3.0 ppm	3.0 to 6.6 ppm
Number of Pump Strokes	4	2	1
Correction Factor	1/2	1	2.2
Sampling Time	1.5 minutes per pump stroke		
Detecting Limit	0.02 ppm (n=4)		
Colour Change	Yellow → Reddish brown		
Reaction Principle	$\text{CH}_2\text{:CHCl} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{HCl}$ $\text{HCl} + \text{Base} \rightarrow \text{Chloride}$		
Coefficient of Variation	10% (for 0.2 to 1 ppm), 5% (for 1 to 3 ppm)		
Shelf Life	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.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ethylene	≥200 ppm	Minus error	No discoloration
Tetrachloroethylene	≥1/3	Plus error	Produce reddish brown
Trichloroethylene	≥1/5	Plus error	Produce reddish brown
Benzene, Toluene	≥200 ppm	Minus error	No discoloration

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Allyl chloride	Factor: 16	2	3.2 to 48 ppm
1,1,2,2-Tetrachloroethane	Factor: 10	2	2 to 30 ppm

Calibration gas generation Permeation tube method

TLV - TWA	TLV - STEL	Explosive range
1 ppm	-	3.6 to 23%