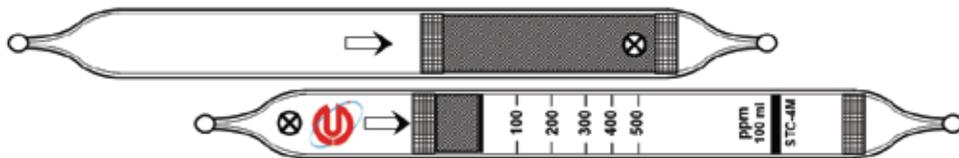


1,1,1-Trichloroethane

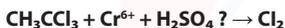
**STC-4M**

Specification :

	Extended	Standard	Extended
Measurement Range	Do not extend	100 – 500 ppm	Do not extend
No. of Pump Strokes		1 (100 ml)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minute per pump stroke (100 ml)		
Color Change	White → Orange		
Detection Limit	50 ppm (1 pump stroke)		
Shelf Life	2 years		
Relative standard deviation	± 10 – 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Reaction Principle :



$\text{Cl}_2 + \text{o-Tolidne} \rightarrow \text{Orange Reaction product}$

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
1,2-dichloroethane	500	+	Orange

Cross Sensitivity :

Tube Reading on STC-4M	100	200	300	400	500
1,1,2-Trichloroethane (ppm) n= 2 (200 ml)	230	490	730	1000	1250

Correction For Environmental Parameters :

Temperature (°C):	5	20	30	40
Temperature Correction Factor (TCF)* :	2.0	1	0.66	0.5
Relative humidity	Not necessary between 10 - 90 %.			

* Multiply the observed reading by the correction factor (VCFXTCF) to obtain the true concentration.

Calibration Of The Tube :

Static gas dilution method.