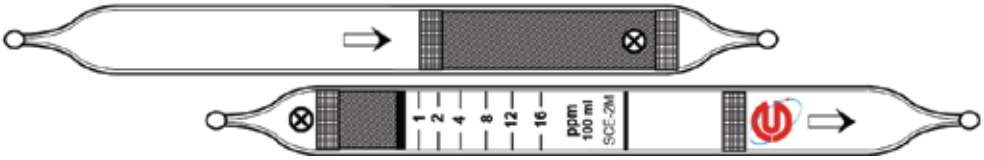
Trichloroethylene

Cl_2C: CHCl

SCE-2M



Specification :

	Extended	Standard	Extended
Measurement Range	0.5 – 1 ppm	1 – 16 ppm	16 – 32 ppm
No. of Pump Strokes	2 (200 ml)	1 (100 ml)	0.5 (50 ml)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	3 minute per pump stroke (100 ml)		
Color Change	White → Light violet		
Detection Limit	0.2 ppm (2 pump strokes)		
Shelf Life	1 year		
Relative standard deviation	± 10 – 15 %		

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

Reaction Principle :

Cl_2C:CHCl + Cr^{6+} + H_2SO_4 → Cl_2

Cl_2 + 3,3′ Dimethylnaphthidine → Reaction product

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
Nitrogen oxides		+	Light violet
Halogens		+	Light violet
Halogenated hydrocarbons		+	Light violet
Hexane	≤100	No	No Effect
1,2 dichloroethylene	≤12	No	No Effect

Correction For Environmental Parameters :

Temperature	Not necessary between 0 - 40˚C (32 - 104˚F).
Relative humidity	Not necessary between 10 - 90 %.

Calibration Of The Tube :

Static gas dilution method.

TLV (TWA): 10 ppm TLV (STEL):25 ppm Flammable Range: -----