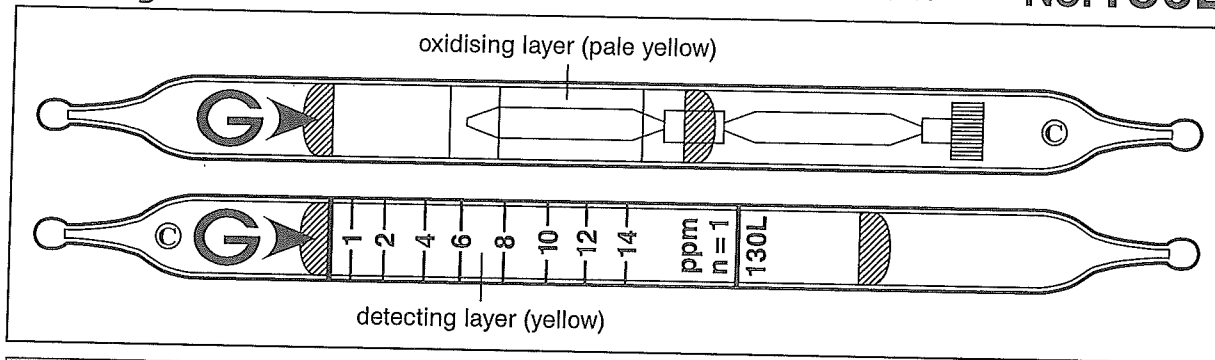


Vinylidene Chloride $\text{CH}_2:\text{CCl}_2$ No.130L



Performance

When used, these tubes are to be connected. See page 2-3.

Measuring range	0.4 to 1 ppm	1 to 14 ppm	14 to 40.6 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	0.4	1	2.9
Sampling time	3 min	1.5 min	45 sec

Detecting limit : 0.1 ppm (2 pump strokes)

Colour change : Yellow → Reddish brown

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10 % (for 1 to 4 ppm), 5 % (for 4 to 14 ppm)

Shelf life : 2 years (in the refrigerator)

Reaction principle

Pretreatment tube : $\text{CH}_2:\text{CCl}_2 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{HCl}$

Detector tube : $\text{HCl} + \text{Base} \rightarrow \text{Reddish brown product}$

Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Tetrachloroethylene	≧ 4 times	+	} Reddish brown
Trichloroethylene	≧ 1/1	+	
Vinyl chloride	≧ 1/7	+	
Toluene	≧ 500 ppm	-	} No
Ethylene	≧ 300 ppm	-	
Benzene	≧ 400 ppm	-	

Water vapour is trapped in the white layer of the pretreatment tube.

Calibration gas generation

Permeation tube method