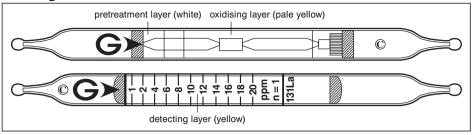
Vinyl Chloride CH2:CHCI

No.131La



Performance

When used, these tubes are to be connected.

Measuring range	0.25 to 0.5 ppm	0.5 to 1 ppm	1 to 20 ppm	20 to 54 ppm
Number of pump strokes	4 (400ml)	2 (200ml)	1(100 ml)	1/2 (50 ml)
Correction factor	1/4	1/2	1	2.7
Sampling time	4 min	2 min	1 min	45 sec

 $\begin{array}{lll} \mbox{Detecting limit:} & \mbox{0.05 ppm (4 pump strokes)} \\ \mbox{Colour change:} & \mbox{Yellow} \rightarrow \mbox{Reddish brown} \\ \end{array}$

Corrections for temperature & humidity: Unnecessary

Relative standard deviation: 10 % (for 1 to 6 ppm), 5 % (for 6 to 20 ppm)

Shelf life: 2 years (in the refrigerator)

Reaction principle

Pretreatment tube : $CH_2:CHCI + Cr^{6+} + H_2SO_4 \rightarrow HCI$

Detector tube : HCl + Base → Chloride

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to	
Tetrachloroethylene	≥ 3 times	+	Reddish brown	
Trichloroethylene	≥ 1/2	+	Aeddish brown	
Xylene, Toluene	≥ 500 ppm	_		
Ethylene	≥ 1000 ppm	_		
Benzene	≥ 400 ppm	_	J	

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

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
1,3-Dichloropropene	Factor: 0.5	2	0.5 to 10 ppm
p-Ethyl benzylchloride	Factor: 2.5	2	2.5 to 50 ppm
Ethyl chloroformate	Factor: 7	2	7 to 140 ppm
2-Methyl allyl chloride	Factor: 2.75	1	2.8 to 55 ppm
Methyl chloroformate	Factor: 58	5	58 to 1160 ppm
Propylene dichloride	Factor: 40	2	40 to 800 ppm
1,2,4-Trichlorobenzene	Factor: 0.65	4	0.65 to 13 ppm

Calibration gas generation

Permeation tube method