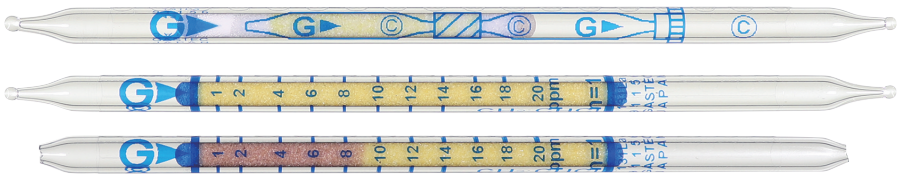
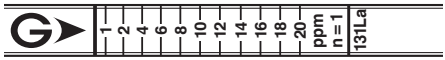
Vinyl Chloride CH_2:CHCl

No.131La



Scale



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 (400 mL)	2 (200 mL)	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

Detecting limit : 0.05 ppm (4 pump strokes)
Colour change : Yellow → Reddish brown
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 10 % (for 1 to 6 ppm), 5 % (for 6 to 20 ppm)
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 24 months (in the refrigerator)

Reaction principle

CH_2:CHCl + Cr^{6+} + H_2SO_4 → HCl
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	+	
Xylene, Toluene	≧ 500 ppm	−	No
Ethylene	≧ 1000 ppm	−	
Benzene	≧ 400 ppm	−	
Hydrogen chloride	16 ppm	No	No (≦ 50 ppm)

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

(Last updated: Apr. 2024)