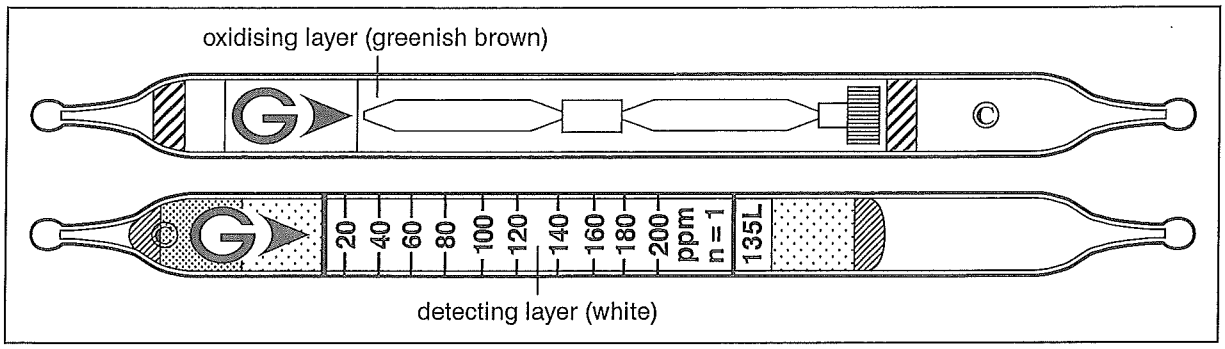
1,1,1-Trichloroethane CH_3CCl_3 No.135L



Performance

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

Measuring range	6 to 20 ppm	20 to 200 ppm	200 to 900 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	0.3	1	4.5
Sampling time	6 min	3 min	1.5 min

Detecting limit : 3 ppm (2 pump strokes)
Colour change : White → Pale pink
Corrections for temperature & humidity : Temperature correction is necessary.
Relative standard deviation : 10 %(for 20 to 60 ppm), 5 %(for 60 to 200 ppm)
Shelf life : 2 years

Reaction principle

1,1,1-Trichloroethane reacts with oxidising agent to produce intermediate products then it reacts with detecting agent to produce pale pink stain.

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

Substance	Concentration	Interference	Changes colour by itself to
Halogens		+	Pale pink
Nitrogen oxides		+	Pale pink
Saturated halogenated hydrocarbons		+	Pale pink

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
1,2-Dichloroethane	Factor : 5.2	1	104 to 1040 ppm
1,1,2,2-Tetrabromoethane	Factor : 0.046	4	0.92 to 9.2 ppm
1,2,3-Trichloropropane	Factor : 1.8	4	36 to 360 ppm

Calibration gas generation

Diffusion tube method

Special note

This twin tube can also be used with the Gastec Water Pollutant Analysis Systems to measure 1,1,1-trichloroethane in the water. With these systems, samples are collected by using a syringe. For detail, see page 5-9.

TLV-TWA : 350 ppm TLV-STEL : 450 ppm