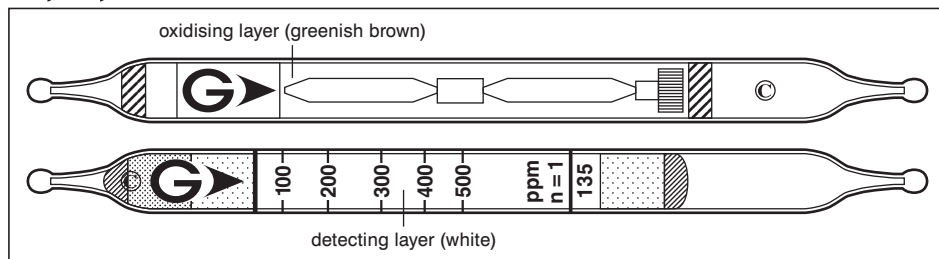


1,1,1-Trichloroethane CH_3CCl_3 No.135



Performance

When used, these tubes are to be connected.

Measuring range	100 to 500 ppm	500 to 2000 ppm
Number of pump strokes	1 (100 ml)	1/2 (50 ml)
Correction factor	1	4
Sampling time	3 min	1.5 min

Detecting limit : 50 ppm (1 pump stroke)

Colour change : White → Reddish orange

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 100 to 200 ppm), 5 % (for 200 to 500 ppm)

Shelf life : 3 years

Reaction principle

1,1,1-Trichloroethane reacts with oxidising agent to produce intermediate products then it react with detecting agent to produce reddish orange stain.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine, Bromine, Iodine		+	Reddish orange
Chloroform, Dichloromethane		+	Reddish orange
Carbon tetrachloride		No	No
Methyl bromide		+	Reddish orange
Trichloroethylene, Tetrachloroethylene		+	Reddish orange

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Chlorobromomethane	Factor : 0.22	1	22 to 110 ppm
1,1-Dichloroethane	Factor : 0.9	1	90 to 450 ppm
1,1,2-Trichloroethane	by scale	2	220 to 750 ppm
1,2-Dichloroethane	Factor :4.0	1	400 to 2000 ppm

Calibration gas generation

Diffusion tube method