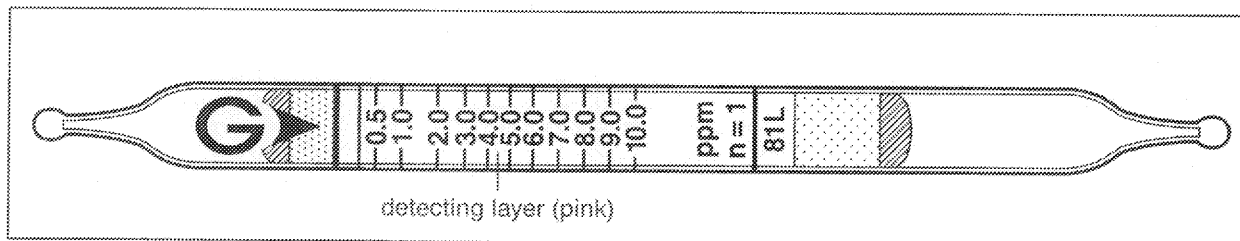


Acetic Acid $\text{CH}_3\text{CO}_2\text{H}$

No.81L



Performance

Measuring range	0.125 to 0.25 ppm	(0.25) to 10 ppm	10 to 25 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	2.5
Sampling time	3 min	1.5 min	40 sec

Detecting limit : 0.05 ppm (2 pump strokes)

Colour change : Pink → Pale yellow

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 0.25 to 3 ppm), 5 % (for 3 to 10 ppm)

Shelf life : 2 years (in the refrigerator)

Reaction principle



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

Substance	Concentration	Interference	Changes colour by itself to
Acetic anhydride		+	Pale yellow
Chlorine		+	
Formic acid		+	
Nitrogen dioxide		+	
Sulphur dioxide		+	
Ammonia	≥ 2 times	-	No

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Acetic anhydride	Factor : 0.6	1	0.15 to 6 ppm
Acrylic acid	Factor : 1.8	1	0.45 to 18 ppm
Butyric acid	Factor : 1.3	1	0.325 to 13 ppm
Formic acid	Factor : 2.0	1	0.5 to 20 ppm
Isovaleric acid	Factor : 1.5	1	0.38 to 15 ppm
Methacrylic acid	Factor : 1.4	1	0.35 to 14 ppm
Propionic acid	Factor : 1.0	1	0.25 to 10 ppm
Valeric acid	Factor : 1.5	1	0.38 to 15 ppm

Calibration gas generation

Diffusion tube method