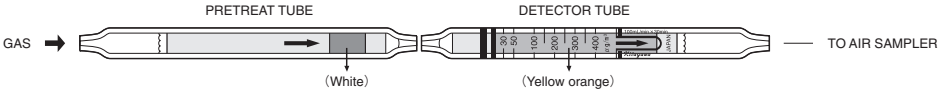
Tube No.
750

TRICHLOROETHYLENE



1. PERFORMANCE

1) Measuring range : 30-400 $\mu g/m^3$ 69-920 $\mu g/m^3$
2) Sampling time : 100mℓ/min × 30min 1000mℓ/min × 15min
3) Detectable limit : 5 $\mu g/m^3$ (100mℓ/min × 30min)
4) Shelf life : 1 year
5) Operating temperature : 0 ~ 40℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated at the sampling of 100mℓ × 30min
8) Colour change : Yellow orange → Purple red

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % RSD-mid. : 5 % RSD-high : 5 %

3. CHEMICAL REACTION

By reacting with an Oxidizer, Hydrogen chloride is produced and PH indicator is discoloured.

$CCl_2 = CHCl + PbO_2 + H_2SO_4 \rightarrow HCl$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Tetrachloroethylene	Similar stain is produced.	Higher readings are given.
1,2-Dichloroethylene	〃	〃
Vinyl chloride	〃	〃

(NOTE)

Air sampler is required for this tube.

TABLE OF THE COEFFICIENT FOR TEMPERATURE CORRECTION (20℃ standard)

Temp(℃)	0	1	2	3	4	5	6	7	8	9
0	1.39	1.36	1.34	1.32	1.30	1.28	1.26	1.24	1.22	1.20
10	1.18	1.16	1.14	1.13	1.11	1.09	1.07	1.05	1.04	1.02
20	1.00	0.98	0.97	0.95	0.93	0.92	0.90	0.88	0.87	0.85
30	0.84	0.52	0.81	0.79	0.78	0.76	0.75	0.73	0.72	0.71
40	0.69	—	—	—	—	—	—	—	—	—