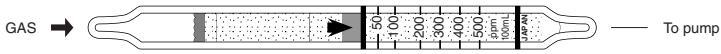
Tube No.
135SM

TETRACHLOROETHYLENE



1. PERFORMANCE

1) Measuring range	: 50-500 ppm	125-1,250 ppm
Number of pump strokes	1 (100mℓ)	1/2 (50mℓ)
2) Sampling time	: 45 seconds/1 pump stroke	
3) Detectable limit	: 5 ppm (100mℓ)	
4) Shelf life	: 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10℃)	
5) Operating temperature	: 5 ~ 40℃	
6) Temperature compensation	: Necessary (See "TEMPERATURE CORRECTION TABLE")	
7) Reading	: Direct reading from the scale calibrated by 1 pump stroke	
8) Colour change	: Yellow → Red	

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

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

$CI_2C = CCI_2 + PbO_2 + H_2SO_4 \rightarrow HCI$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Trichloroethylene	Similar stain is produced.	10	Higher readings are given.
1,2-Dichloroethylene	〃	10	〃
1,1,1-Trichloroetane		less than 300	The accuracy of readings is not affected.

(NOTE)

In case of 1/2 pump strokes, the following formula is available for the actual concentration.

Actual concentration = 2.5 × Reading value

TEMPERATURE CORRECTION TABLE

Temperature ; To correct for temperature, multiply the tube reading by the following factors.

Temperature (℃)	1	2	3	4	5	6	7	8	9	10
Correction Factor	—	—	—	—	1.40	1.36	1.32	1.28	1.24	1.20
Temperature (℃)	11	12	13	14	15	16	17	18	19	20
Correction Factor	1.18	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.02	1.00
Temperature (℃)	21	22	23	24	25	26	27	28	29	30
Correction Factor	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
Temperature (℃)	31	32	33	34	35	36	37	38	39	40
Correction Factor	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80