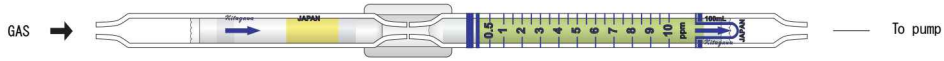
Tube No.
249S

1, 3-DICHLOROPROPENE



1. PERFORMANCE

1) Measuring range : 0.5-10 ppm
   Number of pump strokes 1(100mL)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : 0.1 ppm
4) Shelf life : 3 years
5) Operating temperature : 0～40℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Colour change : Yellowish green → Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

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

$$C_3H_4Cl_2 + CrO_3 + H_2SO_4 \rightarrow HCl$$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Chloropicrin	The accuracy of reading is not affected.	1800	The accuracy of reading is not affected.
Methyl isothiocyanate	〃	600	〃

TEMPERATURE CORRECTION TABLE

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

Temperature (℃)	0	1	2	3	4	5	6	7	8	9
Correction Factor	2.00	1.91	1.83	1.75	1.66	1.57	1.49	1.42	1.36	1.30
Temperature (℃)	10	11	12	13	14	15	16	17	18	19
Correction Factor	1.25	1.21	1.18	1.15	1.12	1.10	1.08	1.06	1.04	1.02
Temperature (℃)	20	21	22	23	24	25	26	27	28	29
Correction Factor	1.00	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
Temperature (℃)	30	31	32	33	34	35	36	37	38	39
Correction Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Temperature (℃)	40									
Correction Factor	0.88									