



1. PERFORMANCE

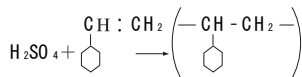
- 1) Measuring range : 2-100 ppm 1-50 ppm
Number of pump strokes 2 (200mL) 4 (400mL)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 0.2 ppm(400mL)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION COEFFICIENT TABLE")
- 7) Reading : Direct reading from the scale calibrated by 2 pump strokes
- 8) Colour change : White→Yellow

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

A polymer of Styrene is produced by fume sulphuric acid.



4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	Coexistence
Acrylonitrile	400	The accuracy of readings is not affected.	Lower readings are given.
Butadiene	5	Pale orange stain is produced.	Higher readings are given.
Formaldehyde	15	The accuracy of readings is not affected.	"
Acetaldehyde	350	Orange stain is produced.	"
Methyl alcohol	3500	The accuracy of readings is not affected.	"
Ethyl alcohol	1800	"	"
Ethyl acetate	700	"	"
Butyl acetate	700	"	"

(NOTE)

In case of 2 pump strokes, following formula is available for actual concentration.
Actual concentration = 1/2×Reading value.

TEMPERATURE CORRECTION COEFFICIENT TABLE

Temperature	0	1	2	3	4	5	6	7	8	9
0°C	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89
10°C (50°F)	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99
20°C (68°F)	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
30°C (86°F)	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19
40°C (104°F)	1.20									