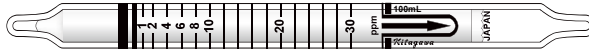


GAS →



→ To pump

1. PERFORMANCE

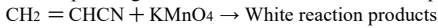
- 1) Measuring range : 2.6-78 ppm 1-30 ppm 0.2-6 ppm
 Number of pump strokes : 1/2(50mL) 1 (100mL) 4 (400mL)
- 2) Sampling time : 2.5 minutes / 1 pump stroke
- 3) Detectable limit : 0.05 ppm (400mL)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Pink → White

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Potassium permanganate is reduced and white reaction products are generated.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Hydrogen cyanide	—	The accuracy of readings is not affected.	Less than 350	The accuracy of readings is not affected.
Hydrogen chloride	—	"	Less than 30	"
Toluene	—	"	Less than 30	"
Acetone	—	"	12	Higher readings are given.
Styrene	30	Similar stain is produced.	3	"
Ethanol	20	"	30	"
Acetone cyanohydrin	25	"	25	"

(NOTE)

In case of 4 pump strokes, following formula is available for actual concentration.

Actual concentration = Reading value × Coefficient for temperature correction × 0.2

TEMPERATURE CORRECTION COEFFICIENT TABLE(4 pump strokes)

Temperature(°C)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
Correction factor	1.2	1.1	1.0	0.9	0.8

TEMPERATURE CORRECTION TABLE(1 pump stroke)

Tube Readings (ppm)	Corrected Concentration (ppm)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
30	—	36.2	30.0	26.3	23.9
28	47.0	33.5	28.0	24.7	22.6
26	41.0	30.9	26.0	23.2	21.4
24	36.1	28.2	24.0	21.5	19.8
22	32.3	25.5	22.0	19.8	18.4
20	28.7	23.2	20.0	18.2	17.0
18	25.6	20.9	18.0	16.5	15.5
16	22.6	18.6	16.0	14.9	14.0
14	19.6	16.3	14.0	13.2	12.3
12	16.8	14.0	12.0	11.3	10.6
10	14.1	11.5	10.0	9.4	8.8
8	11.3	9.1	8.0	7.5	7.0
6	8.4	6.7	6.0	5.7	5.4
4	5.3	4.4	4.0	3.8	3.6
2	2.0	2.0	2.0	1.8	1.8
1			1.0		

TEMPERATURE CORRECTION TABLE(1/2 pump stroke)

Tube Readings (ppm)	Corrected Concentration (ppm)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
30	—	108.0	78.0	66.0	59.3
28	—	98.0	72.8	62.0	56.0
26	—	90.0	67.6	58.0	53.0
24	—	81.5	62.4	53.8	49.5
22	112.0	73.0	57.2	49.4	46.0
20	95.0	66.0	52.0	45.0	42.5
18	81.0	58.0	46.8	40.8	38.8
16	69.0	51.2	41.6	36.3	35.2
14	57.5	44.2	36.4	32.2	31.5
12	49.0	37.8	31.2	28.0	28.0
10	39.5	30.7	26.0	23.5	23.5
8	31.5	24.0	20.8	19.5	19.5
6	22.5	17.5	15.6	15.0	15.0
4	12.5	10.4	10.4	10.4	10.4
2			5.4		
1			2.7		