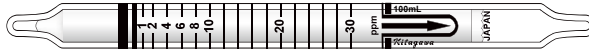


GAS →



→ To pump

## 1. PERFORMANCE

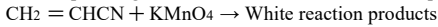
- 1) Measuring range : 2.6-78 ppm    1-30 ppm    0.2-6 ppm  
     Number of pump strokes : 1/2(50mL)    1 (100mL)    4 (400mL)
- 2) Sampling time : 2.5 minutes / 1 pump stroke
- 3) Detectable limit : 0.05 ppm (400mL)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation : 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		