



1. PERFORMANCE

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|-----------------------------|--|------------|------------|-----------|
| 1) Measuring range | : 1-20 ppm | 0.5-10 ppm | 0.25-5 ppm | 0.2-4 ppm |
| Number of pump strokes | 1 (100mℓ) | 2 (200mℓ) | 4 (400mℓ) | 5 (500mℓ) |
| 2) Sampling time | : 1.5 minutes/1 pump stroke | | | |
| 3) Detectable limit | : 0.05ppm (500mℓ) | | | |
| 4) Shelf life | : 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10 °C) | | | |
| 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 | : Yellow → Red | | | |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By decomposing with an Oxidizer, Hydrogen cyanide is produced, Hydrogen cyanide reacts with Mercuric chloride, then Hydrogen chloride is liberated and PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	Coexistence
Butadiene	Less than 350 ppm		The accuracy of readings is not affected.
Toluene	Less than 600 ppm		∕
Hexane	Less than 800 ppm		∕
Styrene	Less than 720 ppm		∕
Hydrogen cyanide		Similar stain is produced.	Higher readings are given.

(NOTE)

In case of 2 to 5 pump strokes, following formula is available for actual concentration.

$$\text{Actual concentration} = \text{Temperature corrected value} \times \frac{1}{\text{Number of pump strokes}}$$

TEMPERATURE CORRECTION TABLE

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)
20	26	22.5	20	18	17
18	23	20	18	16.5	15.5
16	20.5	18	16	15	14
14	18	15.5	14	13	12
12	15.5	13.5	12	11	10.5
10	13	11	10	9.5	9
8	10.5	9	8	7.5	7
6	8	7	6	6	5.5
4	5.5	4.5	4	4	4
2	3	2	2	2	2
1	1.5	1	1	1	1