

1. PERFORMANCE

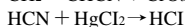
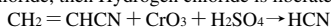
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|-----------------------------|---|------------|------------|-----------|
| 1) Measuring range | : 1-20 ppm | 0.5-10 ppm | 0.25-5 ppm | 0.2-4 ppm |
| Number of pump strokes | 1 (100ml) | 2 (200ml) | 4 (400ml) | 5 (500ml) |
| 2) Sampling time | : 1.5 minutes/1 pump stroke | | | |
| 3) Detectable limit | : 0.05ppm (500ml) | | | |
| 4) Shelf life | : 1 year (Necessary to store in refrigerated place ; 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	Interference	ppm	Coexistence
Butadiene		Less than 350 ppm	Not affected.
Toluene		Less than 600 ppm	〃
Hexane		Less than 800 ppm	〃
Styrene		Less than 720 ppm	〃

(NOTE)

In case of 2 to 5 pump strokes can be used to determine the lower concentration.

Following formula is available for actual concentration.

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

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True 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