



1. PERFORMANCE

- 1) Measuring range : 2-30 ppm
Number of pump strokes : 1 (100ml)
- 2) Sampling time : 40 seconds/1 pump stroke
- 3) Detectable limit : 0.5 ppm
- 4) Shelf life : 1 year
- 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 : Greenish yellow → Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By decomposing with an Oxidizer, Hydrogen chloride is produced and PH indicator is discoloured.
 $(\text{ClCH}_2\text{CH}_2)_2\text{O} + \text{CrO}_3 + \text{H}_2\text{SO}_4 \rightarrow 2\text{HCl}$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence	
Halogenated hydrocarbons	Similar stain is produced.		Higher readings are given.
Aliphatic hydrocarbons (more than C ₃)	The accuracy of readings is not affected.	less than 500	The accuracy of readings is not affected.
Aromatic hydrocarbons	∕	less than 300	∕
Alcohols	∕	less than 100	∕
Esters	∕	less than 300	∕

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)							
	0 °C (32 °F)	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	25 °C (77 °F)	30 °C (86 °F)	35 °C (95 °F)	40 °C (104 °F)
30	—	49	37	30	24	19	14	9
25	45	35	30	25	20	16	12	8
20	32	27	23	20	17	13	10	6
15	21	19	17	15	13	10	7	5
10	14	13	12	10	9	7	5	4
5	7	6	6	5	4	3	2	1
2	3	3	2	2	2	1	1	1