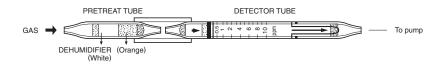
# **CHLOROPRENE**



### 1. PERFORMANCE

 $\begin{array}{cccc} \text{1) Measuring range} & \text{1} \cdot 1-20 \text{ ppm} & 0.5-10 \text{ ppm} \\ \text{Number of pump strokes} & 1 \left(100 \text{m} \ell\right) & 2 \left(200 \text{m} \ell\right) \\ \text{2) Sampling time} & \text{3} \text{ minutes/2 pump strokes} \end{array}$ 

3) Detectable limit : 0.01 ppm (200mℓ) 4) Shelf life : 3 years

5) Operating temperature  $0 \sim 40^{\circ}$ 

6) Temperature compensation  $\,$  : Necessary (0-20  $^{\circ}\! C$  ) (See"TEMPERATURE CORRECTION TABLE")

7) Reading : Direct reading from the scale calibrated by 2 pump strokes

8) Colour change : Greenish yellow→Pink

#### 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with an Oxidizer, Hydrogen chloride is produced and PH indicator is discoloured.

 $CH_2 = CCICH = CH_2 + CrO_3 + H_2SO_4 \cdot nSO_3 \rightarrow HCI$ 

#### 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

#### 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence	
Acetylene	The accuracy of readings is not affected.	4%	Lower readings are given.	
Ethylene	"	200	"	
Vinyl chloride	Similar stain is produced.		Higher readings are given.	

#### (NOTE)

In case of 1 pump stroke, following formula is available for the actual concentration.

Actual concentration =  $2 \times$  Temperature corrected value

## TEMPERATURE CORRECTION TABLE

Tube	Corrected Concentration (ppm)					
Readings (ppm)	0 °C (32 °F)	5℃ (41°F)	10 °C (50 °F)	15 ℃ (59 °F)	20 °C ~ 40 °C (68 °F ~ 104 °F)	
10.0	80.0	23.0	16.5	12.5	10.0	
8.0	64.0	18.5	13.0	10.5	8.0	
6.0	48.0	14.0	10.0	7.5	6.0	
4.0	15.0	8.8	6.5	5.0	4.0	
2.0	8.0	4.0	3.0	2.5	2.0	
1.0	3.0	1.7	1.6	1.5	1.0	
0.5	0.5	0.5	0.5	0.5	0.5	