

# GASTEC Instructions for No.126L Chlorobenzene Detector Tube

## FOR SAFE OPERATION :

Read this manual and the instruction manual of your Gastec Gas Sampling Pump carefully.

### ⚠ WARNING:

1. Use only Gastec detector tubes in a Gastec pump.
2. Do not interchange or use non-Gastec parts or components in Gastec's detector tube and pump system.
3. The use of non-Gastec parts or components in Gastec's detector tube and pump system or use of a non-Gastec detector tube with a Gastec pump or use of a Gastec detector tube with a non-Gastec pump may result in property damage, serious bodily injury, and death; voids all warranties; and voids all performance and data accuracy warranties.

### ⚠ CAUTION: If not observed, injuries to the operator or damage to the product may result.

1. When breaking the tube ends, keep away from eyes.
2. Do not touch the broken glass tubes, piece and reagent with bare hand(s).
3. The sampling time represents the time necessary to draw the air sample through the tube. The tube must be positioned in the desired sampling area for the entire sampling time or until the flow finish indicator indicates the end of the sample.

### ⚠ NOTES : For maintaining performance and reliability to the test result

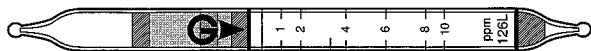
1. Use Gastec Gas Sampling Pump together with Gastec Detector Tubes only for the purposes specified in the instruction manual of the detector tube.
2. Use this tube within the temperature range of 0 - 40°C (32 - 104°F).
3. Use this tube within the relative humidity range of 0 - 90%.
4. This tube may be interfered by the coexisting gases. Please refer to the "INTERFERENCES".
5. Shelf life and storage condition of the tube is marked on the label of the box of tube.

### APPLICATION OF THE TUBE :

Use this tube for the detection of Chlorobenzene in air or the industrial areas and environmental atmospheric condition.

### SPECIFICATION :

(As a result of Gastec's commitment to continued improvement, specifications are subject to change without notice.)



	Detecting Layer	
Measuring Range	0.5 - 10 ppm	10 - 43 ppm
Number of Pump Strokes	3	1
Correction Factor	1	4.3
Sampling Time	1.5 minutes per pump stroke	
Detecting Limit	0.25 ppm (n = 3)	
Color Change	Yellow → Pale bluish purple	
Reaction Principle	Chlorobenzene reacts with acid to produce hydrogen chloride and it turns the indicator to pale bluish purple color	

- \*\* Shelf Life : Please refer to the Validity Date printed on the box of tube.**  
**\*\* Store the tubes in the dark and cool place.**

### CORRECTION FOR TEMPERATURE, HUMIDITY AND PRESSURE:

Calibration of the Gastec detector Tube No.126L is based on a tube temperature of 20°C (68°F) and not the temperature of the gas being sampled, approximately 50% relative humidity and normal atmospheric pressure.

1. To correct for temperature other than 20°C, refer to the table below:

Temperature °C (°F)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Correction Factor	2.6	1.8	1.0	0.8	0.6

2. Humidity correction is not required.

3. Pressure Correction

To correct for pressure, multiply by the tube reading by

$$\frac{\text{Tube Reading (\%)} \times 1013 \text{ (hPa)}}{\text{Atmospheric Pressure (hPa)}}$$

### MEASUREMENT PROCEDURE :

1. For leak tight check of the pump insert a fresh sealed detector tube into pump. Follow instructions provided with the pump operation manual.
2. Break tips off a fresh detector tube in the tube tip breaker of the pump.
3. Insert the detector tube securely into pump inlet with arrow (G) on the tube pointing toward pump.
4. Make certain pump handle is all the way in. Align guide marks on pump body and handle.
5. Pull handle all the way out until it locks on 1 pump stroke (100ml). Wait 1.5 minute. Repeat the above sampling procedure two more times.
6. Read concentration at the interface of the stained-to-unstained reagent.
7. If discoloration of the tube overcalled after 3 pump strokes, prepare fresh tube then take one pump stroke. If correction is required, multiply the tube reading by correction factor, temperature, pressure respectively.

### INTERFERENCES :

Substance	Concentration	Result	Change color by itself
Chlorine, Hydrogen sulfide, Trichloroethylene, Perchloroethylene		Plus error	No discoloration

### DANGEROUS AND HAZARDOUS PROPERTIES :

Threshold Limit Value-Time Weighted Average by ACGIH (1999) : 10 ppm

### DISPOSAL INSTRUCTION :

Reagent of the tube uses toxic substances. On disposing the tube regardless of used or unused, follow the rules and regulations of the local government.

### WARRANTY :

If you have any questions regarding gas detection and quality of the tubes, please feel free to contact your Gastec representatives.