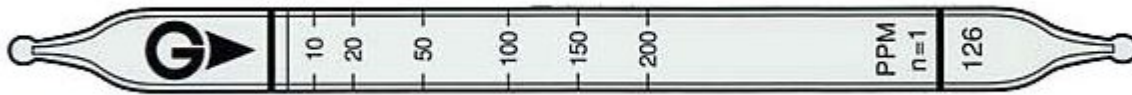


# Chlorobenzene

C<sub>6</sub>H<sub>5</sub>Cl  
Humidity Corrections

NO. 126



## Performance

|   |  |             |               |
|---|--|-------------|---------------|
| <b>Measuring Range</b>                            | 2 to 5ppm  | 5 to 200ppm | 200 to 500ppm |
| <b>Number of Pump Strokes</b>                     | 2  | 1           | 1/2           |
| <b>Correction Factor</b>                          | 0.4  | 1           | 2.5           |
| <b>Sampling Time</b>                              | 1.5 minutes per pump stroke  |             |               |
| <b>Detecting Limit</b>                            | 0.2 ppm (n=2)  |             |               |
| <b>Color Change</b>                               | White → Gray   |             |               |
| <b>Reaction Principle</b>                         | Chlorobenzene reacts with iodine pentoxide to liberate Iodine to discolor the reagent to gray. |             |               |
| <b>Coefficient of Variation</b>                   | 15% (for 5 to 50 ppm), 10% (for 50 to 200 ppm)   |             |               |
| <b>Shelf Life</b>                                 | 3 Years  |             |               |
| <b>Corrections for temperature &amp; humidity</b> | Unnecessary  |             |               |
| <b>Store the tubes at cool and dark place.</b>    |  |             |               |

## Possible coexisting substances and their interferences (NOTE)

| Substance                   | Concentration | Result              | Change color by itself     |
|-----------------------------|---------------|---------------------|----------------------------|
| Carbon monoxide             | 0.1%          | No effect (2layers) | Discolors whole layer      |
| Acetylene, Hexane, Ethylene | 0.2%          | No effect(2 layers) | Discolors whole layer      |
| Alcohols, Ketones           | 1%            | Plus error          | No discoloration           |
| Esters                      | 0.2%          | Plus error          | No discoloration           |
| Aromatic hydrocarbons       | -             | Plus error          | Discolors to grayish brown |

## Calibration gas generation Diffusion tube method

|         |          |                 |
|---------|----------|-----------------|
| TLV-TWA | TLV-STEL | Explosive range |
| 10ppm   | -        | 1.3 to 9.6%     |

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Policy Statement and Legal Notices

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