



### Performance

|                                             |                                                                                                              |                |               |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------|---------------|
| Measuring range                             | 0.1 to 0.5 ppm                                                                                               | 0.5 to 8.0 ppm | 8.0 to 16 ppm |
| Number of pump strokes                      | 2 to 5 (200 to 500 mL)                                                                                       | 1 (100 mL)     | 1/2 (50 mL)   |
| Correction factor                           | 1/2 to 1/5                                                                                                   | 1              | 2             |
| Sampling time                               | 2 to 5 min                                                                                                   | 1 min          | 30 sec        |
| Detecting limit :                           | 0.05 ppm (5 pump strokes)                                                                                    |                |               |
| Colour change :                             | White → Pale pink                                                                                            |                |               |
| Operating conditions :                      | Temperature 0 to 40 °C (32 to 104 °F) correction not used<br>Relative humidity 0 to 90 % correction not used |                |               |
| Relative standard deviation :               | 10 % (for 0.5 to 2 ppm) , 5 % (for 2 to 8 ppm)                                                               |                |               |
| Tube quantity and number of tests per box : | 10 tubes for 10 tests                                                                                        |                |               |
| Shelf life :                                | 36 months                                                                                                    |                |               |

### Reaction principle

$\text{Cl}_2 + 3, 3', 5, 5'$ -Tetramethylbenzidine → Pale pink product

### Possible coexisting substances and their interferences

| Substance        | Concentration | Interference | Changes colour by itself to |
|------------------|---------------|--------------|-----------------------------|
| Nitric oxide     |               | +            | Pale pink                   |
| Ozone            |               | +            | Pale pink                   |
| Nitrogen dioxide |               | +            | Pale pink                   |
| Chlorine dioxide |               | +            | Pale pink                   |
| Bromine, Iodine  |               | +            | Pale pink                   |

### Other substances measurable with this detector tube

| Substance        | Correction   | No. of pump strokes | Measuring range |
|------------------|--------------|---------------------|-----------------|
| Bromine          | Factor : 0.1 | 4                   | 0.05 to 0.8 ppm |
| Chlorine dioxide | Factor : 0.6 | 1                   | 0.3 to 4.8 ppm  |

### Calibration gas generation

Permeation tube method