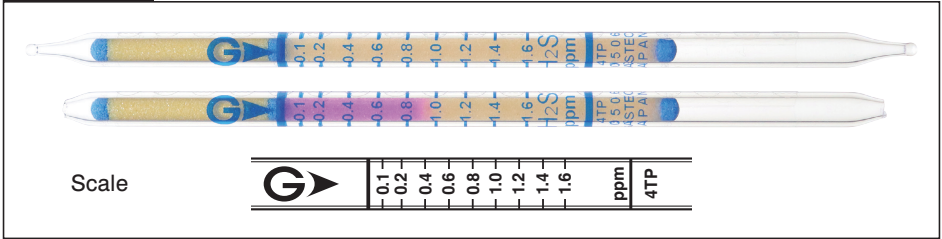


Detector tube

# Hydrogen Sulphide H<sub>2</sub>S

No.4TP



## Performance

|   |  |                    |
|---|--|--------------------|
| Measuring range                             | 0.1 to 1.6 ppm   | 1.6 to 2.88 ppm    |
| Sampling rate                               | 100 mL/min (1000 mL)   | 50 mL/min (500 mL) |
| Correction factor                           | 1  | 1.8                |
| Sampling time                               | 10 min   | 10 min             |
| Detecting limit :                           | 0.02 ppm (1000 mL)   |                    |
| Colour change :                             | Yellow → 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 0.1 to 0.4 ppm), 5 % (for 0.4 to 1.6 ppm)  |                    |
| Tube quantity and number of tests per box : | 10 tubes for 10 tests  |                    |
| Shelf life :                                | 24 months  |                    |

## Reaction principle

Hydrogen sulphide reacts with the reagent to form intermediate material which stains indicator pink.

## Possible coexisting substances and their interferences

| Substance         | Concentration | Interference                                      | Changes colour by itself to             |
|-------------------|---------------|---|---|
| Ammonia           | ≧ 0.8 ppm     | – (yellow at the entrance of the detecting layer) | No (≦ 500 ppm)<br>Pale purple (≧ 0.1 %) |
| Other mercaptans  |               | +   | Pink                                    |
| Hydrogen chloride | ≧ 7.5 ppm     | +   | Pink (≧ 7.5 ppm)                        |
| Hydrogen cyanide  |               | +   | Pink                                    |
| Nitric acid       | ≧ 8.5 ppm     | +   | Pink (≧ 8.5 ppm)                        |
| Sulphur dioxide   | ≧ 1.3 ppm     | } + (unclear demarcation)                         | Pink (≧ 1.2 ppm)                        |
| Nitrogen dioxide  | ≧ 8.0 ppm     |   | Pink (≧ 7.2 ppm)                        |
| Hydrogen fluoride | ≧ 46.0 ppm    |   | +                                       |

## Calibration gas generation

Permeation tube method