

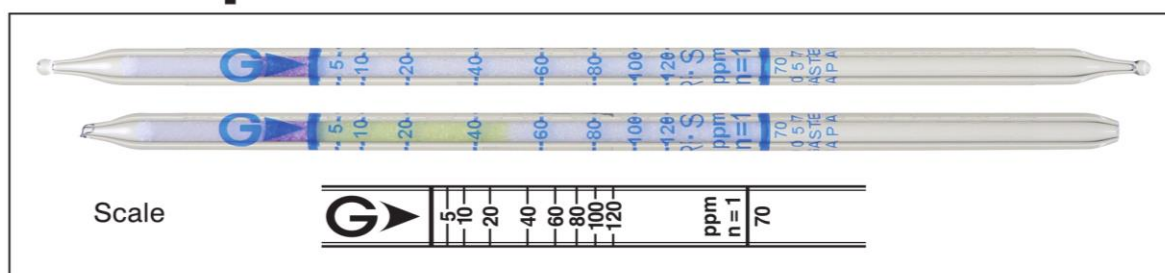


## Mercaptans R · SH

Part No.:70

# Mercaptans R · SH

No.70



### Performance

This detector tube is calibrated with Ethyl mercaptan.

|                                             |                                                       |              |
|---------------------------------------------|-------------------------------------------------------|--------------|
| Measuring range                             | 0.5 to 5 ppm                                          | 5 to 120 ppm |
| Number of pump strokes                      | 2 to 10 (200 to 1000 mL)                              | 1 (100 mL)   |
| Correction factor                           | 1/2 to 1/10                                           | 1            |
| Sampling time                               | 3 to 15 min                                           | 1.5 min      |
| Detecting limit :                           | 0.2 ppm (10 pump strokes)                             |              |
| Colour change :                             | White → Yellow                                        |              |
| Operating conditions :                      | Temperature 0 to 40 °C (32 to 104 °F) correction used |              |
|                                             | Relative humidity 0 to 90 % correction not used       |              |
| Relative standard deviation :               | 10 % (for 5 to 40 ppm) , 5 % (for 40 to 120 ppm)      |              |
| Tube quantity and number of tests per box : | 10 tubes for 10 tests                                 |              |
| Shelf life :                                | 36 months                                             |              |

### Reaction principle



### Possible coexisting substances and their interferences

| Substance           | Concentration   | Interference | Changes colour by itself to |
|---------------------|-----------------|--------------|-----------------------------|
| Acetylene, Ethylene | $\geq 2000$ ppm | +            | } Pale brown (whole layer)  |
| Carbon monoxide     | $\geq 2000$ ppm | +            |                             |
| Hydrogen sulphide   | $\geq 500$ ppm  | +            | No                          |

Up to 500 ppm of hydrogen sulphide is trapped in the pretreatment (white) layer.

### Substances measurable with this detector tube

| Substance           | Correction   | No. of pump strokes | Measuring range |
|---------------------|--------------|---------------------|-----------------|
| Ethyl mercaptan     | Factor : 1.0 | 1 to 10             | 0.5 to 120 ppm  |
| Isopropyl mercaptan | Factor : 2.0 | 1                   | 10 to 240 ppm   |
| Methyl mercaptan    | Factor : 0.7 | 1 to 10             | 0.35 to 84 ppm  |
| Propyl mercaptan    | Factor : 4.5 | 1                   | 22.5 to 540 ppm |

### Calibration gas generation

Diffusion tube method