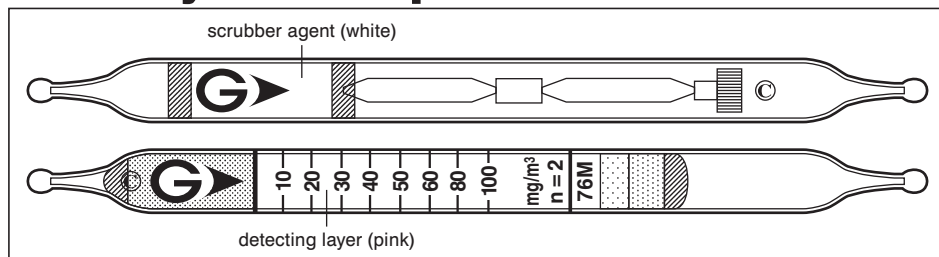


# Tetrahydrothiophene C<sub>4</sub>H<sub>8</sub>S

# No.76M

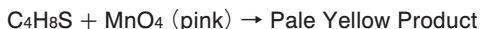


## Performance

When used, these tubes are to be connected.

|  |  |
|--|--|
| Measuring range                          | 10 to 100 mg/m <sup>3</sup>  |
| Number of pump strokes                   | 2 (200 ml)   |
| Correction factor                        | 1  |
| Sampling time                            | 2 min  |
| Detecting limit :                        | 2 mg/m <sup>3</sup> (2 pump strokes)   |
| Colour change :                          | Pink → Pale yellow   |
| Corrections for temperature & humidity : | Temperature correction is necessary.   |
| Relative standard deviation :            | 10 % (for 10 to 30 mg/m <sup>3</sup> ), 5 % (for 30 to 100 mg/m <sup>3</sup> ) |
| Shelf life :                             | 2 years  |

## Reaction principle



## Possible coexisting substances and their interferences

| Substance            | Concentration          | Interference | Changes colour by itself to |
|----------------------|------------------------|--------------|-----------------------------|
| 1-Butene             | ≤ 1000 ppm             | No           | } Pale pink (whole layer)   |
| tert-Butyl mercaptan | ≤ 10 mg/m <sup>3</sup> | No           |                             |
| Ethyl mercaptan      | ≤ 2 ppm                | No           |                             |
| Ethylene             | ≤ 2000 ppm             | No           |                             |
| Propylene            | ≤ 1000 ppm             | No           |                             |
| Methanol             | ≤ 1000 ppm             | No           |                             |
| Hydrogen sulphide    | ≤ 80 ppm               | No           |                             |

## Calibration gas generation

Diffusion tube method