

**Performance**

| | | | | |
|---|--|----------------|--------------|------------|
| Measuring Range | 0.1 to 0.2 ppm | 0.2 to 0.5 ppm | 0.5 to 4 ppm | 4 to 8 ppm |
| Number of Pump Strokes | 4 | 2 | 1 | 1/2 |
| Correction Factor | 0.2 | 0.4 | 1 | 2 |
| Sampling Time | 1.5 minutes per pump stroke | | | |
| Detecting Limit | 0.05 ppm (n=4) | | | |
| Colour Change | Yellow → Red | | | |
| Reaction Principle | Mercaptans react with Mercuric chloride to produce hydrogen chloride. The indicator changes the colour to red. | | | |
| Coefficient of Variation | 10% (for 0.5 to 1 ppm), 5% (for 1 to 4 ppm) | | | |
| Shelf Life | 2 Years | | | |
| Corrections for temperature & humidity | Unnecessary | | | |

Store the tubes at cool and dark place.

Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Change colour by itself |
|-------------------|---------------|--------------|-------------------------|
| Acid gases | - | Plus error | Produces red stain |
| Hydrogen sulphide | ≤200ppm | No effect | No discoloration |

Other substance measurable with this detector tube

| Substance | Correction Factor | Pump Strokes | Measuring Range |
|----------------------|-------------------|----------------|------------------|
| Butyl mercaptan | 1.6 | 1/2, 1, 2 or 4 | 0.16 to 12.8 ppm |
| tert-Butyl mercaptan | 1.0 | | 0.1 to 8 ppm |
| Ethyl mercaptan | 1.0 | | 0.1 to 8 ppm |
| Methyl mercaptan | 1.0 | | 0.1 to 8 ppm |
| Propyl mercaptan | 1.2 | | 0.12 to 9.6 ppm |

Calibration gas generation Permeation tube method

| TLV-TWA | TLV-STEL | Explosive range |
|---------|----------|-----------------|
| - | - | - |