

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Monoxide in Hydrogen

SCH-3

TWA (TLV): 25 ppm

STEL (TLV): 50 ppm

Flammable Range: 13-74%

Specification:

| Measurement Range | Extended | Standard | Extended |
|---------------------------------|---|------------|---------------|
| | Do not extend | 5-100 ppm | Do not extend |
| No. of Pump Strokes | | 3 (300 mL) | |
| Volume Correction Factor (VCF)* | | 1.0 | |
| Sampling Time | 1.5 minutes per pump stroke (100 mL) | | |
| Color Change | White → Brownish Green | | |
| Shelf Life | 1 year | | |
| Storage condition | Below 10°C (50°F) | | |
| Calibration condition | Calibrated at 20°C (68°F) and 50% RH. | | |
| Reaction Principle | $\text{CO} + \text{I}_2\text{O}_5 + \text{H}_2\text{SO}_7 \rightarrow \text{I}_2$ | | |
| Relative standard deviation | ± 10 % | | |

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible interferences:

| Compound | Concentration (ppm) | Interference | Colour change / Comments |
|------------------|---------------------|--------------|--------------------------|
| H ₂ | 100% | No | No Effect |
| CO ₂ | | No | No Effect |
| H ₂ S | | + | |
| NO ₂ | | + | |
| SO ₂ | | + | Diffuse |

Correction for Environmental Parameters:

| | |
|-------------------|--|
| Temperature | Not necessary between 0 - 40°C (32 - 104°F). |
| Relative humidity | Not necessary between 10 - 90 %. |

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