

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Methanol

TLV (TWA): 200 ppm

CH₃OH

TLV (STEL): 250 ppm

SME-8L

Flammable Range: 6-36.5%

Specification:

| Measurement Range | Extended | Standard | Extended |
|---------------------------------|--|------------|-------------|
| | Do not extend | 0.05- 6 % | 0.1- 12 % |
| No. of Pump Strokes | | 1 (100 mL) | 0.5 (50 mL) |
| Volume Correction Factor (VCF)* | | 1 | 2 |
| Sampling Time | 2.0 minutes per pump stroke (100 mL) | | |
| Color Change | Orange → Green with brown top | | |
| Shelf Life | 2 years | | |
| Storage condition | Below 10°C (50°F) | | |
| Calibration condition | Calibrated at 20°C (68°F) and 50% RH. | | |
| Reaction Principle | $\text{CH}_3\text{OH} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$ | | |
| Relative standard deviation | ± 10 – 15 % | | |

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

Possible Interferences:

| Compound | Concentration (ppm) | Interference | Colour change / Comments |
|-----------------|---------------------|--------------|--------------------------|
| Alcohols | | + | Green with brown top |
| Carbon monoxide | 1000 | No | No Effect |
| Carbon dioxide | 10% | No | No Effect |
| Sulphur dioxide | | No | No Effect |

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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