

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ozone

O₃

SOZ-3

TWA (TLV): 0.1 ppm

STEL (TLV): 0.2 ppm (2 hours)

Flammable Range: NA

Specification:

| Measurement Range | Extended | Standard | Extended |
|---------------------------------|---|-------------|--------------|
| | 2.5 – 50 ppm | 5 – 100 ppm | 10 – 200 ppm |
| No. of Pump Strokes | 2 (200 mL) | 1 (100 mL) | 0.5 (50 mL) |
| Volume Correction Factor (VCF)* | 0.5 | 1.0 | 2.0 |
| Sampling Time | 1.5 minutes per pump stroke (100 mL) | | |
| Color Change | Blue → White | | |
| Shelf Life | 2 years | | |
| Storage condition | Below 10°C (50°F) | | |
| Calibration condition | Calibrated at 20°C (68°F) and 50% RH. | | |
| Reaction Principle | O ₃ + Indicator → Reaction product | | |
| 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 |
|------------------|---------------------|--------------|--------------------------|
| Cl ₂ | | + | Blue to Pale red |
| NO ₂ | | + | Blue to Light blue |
| SO ₂ | 100 | No | No Effect |
| H ₂ S | | + | Blue to Light blue |

Correction for Environmental Parameters:

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



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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