

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Ozone

## O<sub>3</sub>

## SOZ-3

TLV (TWA): 0.1 ppm

TLV (STEL): 0.2 ppm (2 hours)

Flammable Range: ----

### Specification:

| Measurement Range               | Extended                                      | Extended    | Standard    | Extended      |
|---------------------------------|---|-------------|-------------|---------------|
|                                 | 1.25 – 2.5 ppm                                | 2.5 – 5 ppm | 5 – 100 ppm | 100 – 200 ppm |
| No. of Pump Strokes             | 4 (400 mL)                                    | 2 (200 mL)  | 1 (100 mL)  | ½ (50 mL)     |
| Volume Correction Factor (VCF)* | 0.25  | 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 <sub>3</sub> + Indicator → Reaction product |             |             |               |
| 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 |
|-------------------|---------------------|--------------|--------------------------|
| Chlorine          |                     | +            | Pale red                 |
| Nitrogen dioxide  |                     | +            | Light blue               |
| Sulphur dioxide   | 100                 | No           | No Effect                |
| Carbon monoxide   |                     | +            | Ring                     |
| Hydrogen sulphide |                     | +            | Light blue               |

### 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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