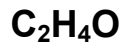


# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Ethylene Oxide



## SEO-1

TWA (TLV): 1 ppm

STEL (TLV): NA

Flammable Range: 4-100%

### Specification:

|                                 | Extended  | Standard     | Extended      |
|---------------------------------|---|--------------|---------------|
| Measurement Range               | Do not extend   | 0.1 – 10 ppm | Do not extend |
| No. of Pump Strokes             |   | 4 (400 mL)   |               |
| Volume Correction Factor (VCF)* |   | 1.0          |               |
| Sampling Time                   | 1.5 minutes per pump stroke (100 mL)  |              |               |
| Color Change                    | Yellow → Pink   |              |               |
| Shelf Life                      | 1 year  |              |               |
| Storage condition               | Below 10°C (50°F) in Refrigerator   |              |               |
| Calibration condition           | Calibrated at 20°C (68°F) and 50% RH.   |              |               |
| Reaction Principle              | C <sub>2</sub> H <sub>4</sub> O + Oxidizer → HCHO<br>HCHO + (NH <sub>2</sub> OH) <sub>3</sub> .H <sub>3</sub> PO <sub>4</sub> → H <sub>3</sub> PO <sub>4</sub><br>H <sub>3</sub> PO <sub>4</sub> + Base → Phosphate |              |               |
| 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 |
|-----------|---------------------|--------------|--------------------------|
| Aldehydes |                     | +            | Yellow to Pale pink      |
| Ketones   |                     | +            | Yellow to Pale pink      |

### 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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