

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Ethyl benzene $C_8H_{10}$

## SEB-4M

TWA (TLV): 100 ppm

STEL (TLV): 125 ppm

Flammable Range: 1- 6.7 %

### Specification:

|                                 | Extended                                       | Standard     | Extended      |
|---------------------------------|--|--------------|---------------|
| Measurement Range               | Do not extend                                  | 30 – 400 ppm | Do not extend |
| No. of Pump Strokes             |  | 1 (100 mL)   |               |
| Volume Correction Factor (VCF)* |  | 1.0          |               |
| Sampling Time                   | 1.5 minutes per pump stroke                    |              |               |
| Color Change                    | White → Brown                                  |              |               |
| Shelf Life                      | 2 years  |              |               |
| Storage condition               | Below 10°C (50°F)                              |              |               |
| Calibration condition           | Calibrated at 20°C (68°F) and 50% RH.          |              |               |
| Reaction Principle              | $C_8H_{10} + I_2O_5 + H_2SO_4 \rightarrow I_2$ |              |               |
| 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 |
|------------|---------------------|--------------|--------------------------|
| Benzene    |                     | +            | White to Brown           |
| Toluene    |                     | +            | White to Brown           |
| Xylene     |                     | +            | White to Brown           |
| n - Hexane | 300                 | No           | No Effect                |

### 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.  
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