

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ethylene Dibromide $C_2H_4Br_2$

SED-2

TLV (TWA): ---

TLV (STEL): ----

Flammable Range: 10-16%

Specification:

| Measurement Range | Extended | Standard | Extended |
|----------------------------------|--|------------|--------------|
| | 0.5 – 1 ppm | 1 – 50 ppm | 50 – 100 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 | 2.0 minutes per pump stroke (100 mL) | | |
| Color Change | White → Yellow | | |
| Shelf Life | 1 year | | |
| Storage condition | Below 10°C (50°F) | | |
| Calibration condition | Calibrated at 20°C (68°F) and 50% RH. | | |
| Reaction Principle (Double Tube) | $C_2H_4Br_2 + CrO_3 + H_2S_2O_7 \rightarrow Cl_2$ (Pre-Treatment Tube) $Br_2 + o - Tolidine \rightarrow$ Reaction product (Detector Tube) | | |
| 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 |
|----------|---------------------|--------------|--------------------------|
| Halogens | | + | Yellow |
| Hexane | 50 | 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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