

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Chloropicrin

Cl_3CNO_2

SCP-2M

TLV (TWA): 0.1 ppm

TLV (STEL): ----

Flammable Range: NA

Specification:

| Measurement Range | Extended | Standard | Extended |
|----------------------------------|--|--------------|---------------|
| | Do not extend | 0.1 – 16 ppm | Do not extend |
| No. of Pump Strokes | 1 (100 mL) | | |
| Volume Correction Factor (VCF)* | 1.0 | | |
| Sampling Time | 2.5 minutes per pump stroke (100 mL) | | |
| Color Change | White → Pink / Red | | |
| 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) | Cl_3CNO_2 + Nitrobenzyl pyridine + n-Benzyl aniline → 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 |
|-----------------------|---------------------|--------------|--------------------------|
| Carbon tetra chloride | 10 | + | Faint colour |
| Hydrogen chloride | 100 | 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.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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