

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Dimethylformamide $\text{HCON}(\text{CH}_3)_2$ SMF-2

TWA (TLV): 1 ppm

STEL (TLV): NA

Flammable Range: 10-16%

Specification:

| Measurement Range | Extended | Standard | Extended |
|---------------------------------|--|------------|---------------|
| | Do not extend | 2 – 30 ppm | Do not extend |
| No. of Pump Strokes | | 2 (200 mL) | |
| Volume Correction Factor (VCF)* | | 1.0 | |
| Sampling Time | 1.5 minutes per pump stroke (100 mL) | | |
| Color Change | Yellow → Blue | | |
| Shelf Life | 2 years | | |
| Storage condition | Below 10°C (50°F) | | |
| Calibration condition | Calibrated at 20°C (68°F) and 50% RH. | | |
| Reaction Principle | $\text{HCON}(\text{CH}_3)_2 + \text{NaOH} \rightarrow \text{RNH}_2$ $\text{RNH}_2 + \text{H}_2\text{SO}_4 \rightarrow (\text{R.NH}_3)_2\text{SO}_4$ | | |
| 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 |
|-----------|---------------------|--------------|--------------------------|
| Amines | | + | Yellow to Blue |
| Ammonia | | + | Yellow to Blue |
| Hydrazine | | + | Yellow to 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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