

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

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

TLV (TWA): 10 ppm

TLV (STEL): ----

Flammable Range: 2.2-16%

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 (Double Tube)	$\text{HCON}(\text{CH}_3)_2 + \text{NaOH} \rightarrow \text{RNH}_2$ (Pre-treatment tube) $\text{RNH}_2 + \text{H}_2\text{SO}_4 \rightarrow (\text{R.NH}_3)_2\text{SO}_4$ (Detector tube)		
Relative standard deviation	± 10 to 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Amines		+	Blue
Ammonia		+	Blue
Hydrazine		+	Blue

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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