

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Formaldehyde

HCHO

SFO-1M

TLV(TWA):0.1 ppm

TLV (STEL):C 0.3 ppm

Flammable Range: 7.0 – 73%

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.1 – 5 ppm	Do not extend
No. of Pump Strokes		5 (500 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minutes per pump stroke (100 mL)		
Color Change	Yellow → Pink		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F) in Refrigerator		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	HCHO + (NH ₂ OH) ₃ H ₃ PO ₄ → H ₃ PO ₄ H ₃ PO ₄ + Base → Phosphate		
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
Aldehydes		+	Pink
Ketones		+	Pink

Other Measurable Compounds:

Compound	Gas Correction Factor (GCF)*	No. of pump stroke	Measuring Range (ppm)
Propionaldehyde	5.5	1	0.55 – 27.5

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

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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