

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Formaldehyde

HCHO

SFO-3

TLV(TWA):0.1 ppm

TLV (STEL):C 0.3 ppm

Flammable Range: 7.0 – 73%

Specification:

Measurement Range	Extended	Standard	Extended
	2.5 – 5 ppm	5 – 100 ppm	100 – 200 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	2.5 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	$\text{HCHO} + (\text{NH}_2\text{OH})_3\text{H}_3\text{PO}_4 \rightarrow \text{H}_3\text{PO}_4$ $\text{H}_3\text{PO}_4 + \text{Base} \rightarrow \text{Phosphate}$		
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
Hydrogen sulphide		+	Light Pink

Other Measurable Compounds:

Compound	Gas Correction Factor (GCF)*	No. of pump stroke	Measuring Range (ppm)
Propionaldehyde	1.1	1	5.5 – 110

* 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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