

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Acetylene

TWA (TLV): NA

C₂H₂

STEL (TLV):NA

SAL-5

Flammable Range: 2.5 – 81 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	100 - 5000 ppm	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	1 minute per pump stroke (100 mL)		
Color Change	White → Brown with green top		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	C ₂ H ₂ + I ₂ O ₅ + H ₂ SO ₇ → I ₂		
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
Benzene		+	Stain movement
1,1,1 Trichloroethane	500	No	No Effect
PH ₃	120	No	No Effect
Ethylene		+	Stain movement

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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