

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Aviation oil

SAO-4

TLV (TWA): 0.2 mg/l

TLV (STEL):-----

Flammable Range: 0.7 – 5 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.1 – 5 mg/l	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	1.5 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	Aviation oil + I ₂ O ₅ + H ₂ S ₂ O ₇ → I ₂		
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
Hydrogen sulphide	55	+	Light brown
Hexane	50	+	Light brown
Benzene	25	No	No Effect
Toluene	25	No	No Effect
Xylene	25	No	No Effect
Acetone	25	No	No Effect

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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Rev.0720