

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Water Vapor

H₂O

SWA-4L

TLV (TWA): -----

TLV (STEL): ----

Non Flammable

Specification:

Measurement Range	Extended	Standard	Extended
	1 – 2 lb/MMCF	2 – 10 lb/MMCF	10 – 20 lb/MMCF
No. of Pump Strokes	4 (400 mL)	2 (200 mL)	01 (100 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Yellow → Pale green		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F).		
Reaction Principle	$H_2O + Mg(ClO_4)_2 \rightarrow Mg(ClO_4)_2 \cdot H_2O$		
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
Methane	99.9%	No effect	No effect
Hydrogen sulphide	2000	No effect	No effect
Methanol	50	+	light green

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
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