

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen

H₂

SHD-6M

TLV (TWA): ----

TLV (STEL): ----

Flammable Range: 4 – 76.6 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.05 – 0.8%	Do not extend
No. of Pump Strokes		0.5 (50 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	0.5 minute per ½ pump stroke (50 mL)		
Color Change	Yellow → Greenish blue		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	H ₂ + O ₂ → H ₂ O H ₂ O + Mg (ClO ₄) ₂ → Mg(ClO ₄) ₂ .H ₂ O		
Relative standard deviation	± 10 – 15 %		

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

Possible Interferences:

Compound	Concentration (%)	Interference	Colour change / Comments
Methane	99.9	No	No effect
Methanol	0.005	No	No effect
Carbon monoxide	0.02	No	No effect
Water vapour	18 mg/l	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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