

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

LP-Gas (LPG)

Hydrocarbon (C₃-C₄)

SLP-5

TWA (TLV): 1000 ppm

STEL (TLV): NA

Flammable Range: 1.6 – 10 %

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	0.5 minutes per pump stroke (100 mL)		
Color Change	Orange brown → Greenish green		
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 ₄ H ₁₀ + Cr ⁶⁺ + H ₂ SO ₄ → Cr ³⁺		
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
Esters, Ketone	≥ 2000 ppm	+	Greenish brown
Hydrocarbons (≥C ₃)		+	Greenish brown
Propylene		+	Greenish brown
Xyylene		+	Greenish brown

Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Olefines (Butadiene)	1.5	1	150 – 7500 ppm

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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