

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

LP-Gas (LPG)

Hydrocarbon (C₃-C₄)

SLP-5

TLV (TWA):1000 ppm

TLV (STEL): ----

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	1 minutes per pump stroke (100 mL)		
Color Change	Brown → Pale 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	$C_4H_{10} + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
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
Esters, Ketone	≥ 2000 ppm	+	Pale green
Hydrocarbons (≥C ₃)		+	Pale green
Propylene		+	Pale green
Xylene		+	Pale green

Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Olefins (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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