

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

General hydrocarbon (as Hexane) SHE-5L

TWA (TLV): 50 ppm

STEL (TLV): NA

Flammable Range: 1.1 – 7.5 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	10 – 1200 ppm	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
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) and 50% RH.		
Reaction Principle	$C_6H_{14} + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
Relative standard deviation	± 10 %		

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

Possible Interferences:

Compound	Concentration (%)	Interference	Colour change / Comments
Organic vapours		+	Pale Green

Other measurable compounds:

Compound	Correction Factor (GCF)*	No. of pump strokes	Measuring range
Hexane	1	1	10 – 1200 ppm
Cyclohexane	1.4	1	14 – 1680 ppm
n-Pentane	0.7	1	7 – 840 ppm
n-Octane	2.3	1	23 – 2760 ppm
n-Heptane	1.5	1	15 – 1800 ppm

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

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 %.



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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