

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

General hydrocarbon (as Hexane) SHE-6L

TLV (TWA): 50 ppm

TLV (STEL): -----

Flammable Range: 1.1 – 7.5 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	(0.0125 – 0.6 %)	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2.5 minutes per pump stroke (100 mL)		
Color Change	Orange → Brown/green		
Shelf Life	2 years		
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 – 15 %		

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

Possible Interferences:

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

Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Hexane	1	1	0.025 – 0.6 %
Cyclohexane	1.3	1	0.0325 – 0.78 %
n-Pentane	0.34	1	0.0085 – 0.204 %
n-Octane	3.8	1	0.095 – 2.28 %
n-Heptane	2.35	1	0.05875 – 1.41 %
Petroleum Naphtha (As Hexane)	1	1	0.025 – 0.6 %

Correction for Environmental Parameters:

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

Pressure- Multiply the reading with compensation factor F.

$$F = \frac{1013 \text{ mbar}}{\text{Actual atmospheric pressure in (mbar)}} \quad \text{or} \quad \frac{760 \text{ (mmHg)}}{\text{Actual atmospheric pressure in (mmHg)}}$$



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