

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

General hydrocarbon (as Octane) SOC-5

TWA (TLV): 300 ppm

STEL (TLV): NA

Flammable Range: 0.8 -6.5%

Specification:

	Extended	Standard	Extended
Measurement Range	Do not extend	3 – 23 mg/L	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	Orange → Brownish 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	$C_8H_{18} + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
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		+	Brownish Green

Other Measurable Compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
n –Hexane	0.19	1	0.57 to 4.37 mg/L
Cyclohexane	0.22	1	0.66 to 5.06 mg/L
n – Heptane	0.47	1	1.41 to 10.81 mg/L

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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