

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrocarbons (as n-octane)

TLV (TWA): 50 ppm

TLV (STEL): -----

SOC-5.1

Flammable Range: 1.1 – 7.5 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	100 – 3000 ppm	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	1 minute per pump stroke (100 mL)		
Color Change	White → Brown		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$C_8H_{18} + I_2O_5 + H_2SO_7 \rightarrow I_2$		
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

Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Hexane	0.7	1	70 – 2100 ppm
n-Heptane	0.9	1	90 – 2700 ppm

Correction for Environmental Parameters:

Temperature (°C)	10	20	30	40
Temperature Correction Factor (TCF)*	1.2	1.0	0.9	0.8

Relative humidity	Not necessary between 10 - 90 %.
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Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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