

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Oxygen

TLV (TWA): ----

O₂

TLV (STEL): ----

SOX-9M

Flammable Range: ----

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	3-24%	Do not extend
No. of Pump Strokes		0.5 (50 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minutes per ½ pump stroke (50 mL)		
Color Change	Dark violet → White		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$O_2 + 4TiCl_3 + 6H_2O \rightarrow 4TiO_2 + 12 HCl$		
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
Carbon dioxide	20	No	No Effect
Hydrogen sulphide	4.7	No	No Effect

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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