

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ozone

O₃

SOZ-4M

TLV (TWA): 0.1 ppm

TLV (STEL): 0.2 ppm (2 hours)

Flammable Range: -----

Specification:

Measurement Range	Extended	Standard	Extended
	12.5 – 25 ppm	25 – 500 ppm	500 – 1000 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Blue → 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 ₃ + Indicator → Reaction product		
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
Chlorine		+	Pale red
Nitrogen dioxide		+	Light blue
Sulphur dioxide	100	No	No Effect
Carbon monoxide		+	Ring
Hydrogen sulphide		+	Light blue

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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