

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Chlorine dioxide ClO_2

SCI-1M

TLV (TWA): 0.1 ppm

TLV(STEL): 0.3 ppm

Flammable Range: NA

Specification:

Measurement Range	Extended	Standard	Extended
	0.05 – 0.1 ppm	0.1- 5 ppm	5 – 10 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	2.0 minutes per pump stroke (100 mL)		
Color Change	White → Orange		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{ClO}_2 + \text{Tetramethyl benzidene} \rightarrow \text{Orange Reaction product}$		
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	8	No	No Effect
Nitrogen Dioxide		+	Orange

Correction for Environmental Parameters:

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



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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