

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Chlorine dioxide

ClO₂

SCI-5

TLV (TWA): 0.1 ppm

TLV(STEL): 0.3 ppm

Flammable Range: NA

Specification:

Measurement Range	Extended	Standard	Extended
	50 – 100 ppm	100 – 4000 ppm	4000 – 8000 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	25 minutes per pump stroke (100 mL)		
Color Change	White → Orange		
Shelf Life	2 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	ClO ₂ + O-Tolidine – 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	>200	+	Orange
Nitrogen Dioxide	100	+	Orange
Bromine	70	+	Orange
Iodine	421	No	No change

Correction for Environmental Parameters:

Temperature (°C):	10	20	30	40
Temperature Correction Factor (TCF) *	1.22	1	0.86	0.83
Relative humidity	Not necessary between 10 - 90 %.			

Calibration of the tube:

Static gas dilution method.



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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