

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Chlorine dioxide ClO_2

SCI-1M

TWA (TLV): 0.1 ppm

STEL (TLV): 0.3 ppm

Flammable Range: NA

Specification:

	Extended	Standard	Extended
Measurement Range	0.05 – 2.5 ppm	0.1- 5 ppm	0.2 – 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	$\text{ClO}_2 + \text{Tetramethyl benzidine} \rightarrow \text{Orange Reaction product}$		
Relative standard deviation	± 10 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Cl_2	8	No	No Effect
NO_2		+	White to Orange
NH_3	50000	No	No Effect
CH_4	25000	No	No Effect
HCl	1000	No	No Effect
H_2S	2000	No	No Effect
CO	500	No	No Effect
CO_2	15000	No	No Effect
Isobutylene	2000	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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