

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Sulphur Dioxide

SO₂

SSD-4M

TLV (TWA): 2 ppm

TLV (STEL): 5 ppm

Flammable Range: -----

Specification:

Measurement Range	Extended	Standard	Extended
	10 – 20	20 - 300 ppm	300 - 600 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Blue → Yellow		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	SO ₂ + BaCl ₂ + H ₂ O → BaSO ₃ + 2HCl HCl + Base → Chloride		
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
Hydrogen sulphide		+	Beige colour
Hydrogen fluoride		+	Ring
Nitrogen oxide		+	Diffuse
Carbon monoxide	3000	No	No effect
Ammonia	300	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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