# **Uniphos Detector Tube Data Sheet**

Direct Reading Length of Stain Type

# Sulphur Dioxide

TLV (STEL): 5 ppm

Flammable Range: -----

SSD-3

## **Specification:**

Magazine ant Dance	Extended	Standard	Extended
Measurement Range	2.5 – 5	5 - 100 ppm	100 - 200 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	2.0 minutes per pump stroke (100 mL)		
Color Change	$Blue \to Yellow$		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$SO_2 + BaCl_2 + H_2O \rightarrow BaSO_3 + 2HCl$		
	HCl + Base $\rightarrow$ 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 %.

