

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Carbonyl Sulphide $\text{COS}$ SCU-3

TWA (TLV): NA

STEL (TLV): NA

Flammable Range: 12 – 19 %

### Specification:

	Extended	Standard	Extended
Measurement Range	2.5 – 50 ppm	5 – 100 ppm	10 – 200 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1 minute 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	COS + I <sub>2</sub> O <sub>5</sub> + H <sub>2</sub> SO <sub>4</sub> → SO <sub>2</sub> + CO <sub>2</sub> SO <sub>2</sub> + BaCl <sub>2</sub> + H <sub>2</sub> O → BaSO <sub>3</sub> + 2HCl HCl + Base → Chloride		
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
Carbon disulphide		+	Blue to Yellow
Sulphur dioxide		+	Blue to Yellow

### 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.  
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