

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Carbon Disulphide $CS_2$ SCS-5M

TLV (TWA): 1 ppm

TLV (STEL): ----

Flammable Range: 1.3 - 50%

### Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	50 – 1600 ppm	Do not extend
No. of Pump Strokes	1 (100 mL)		
Volume Correction Factor (VCF)*	1.0		
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 % R.H.		
Reaction Principle (Double Tube)	CS <sub>2</sub> + CrO <sub>3</sub> + H <sub>2</sub> S <sub>2</sub> O <sub>7</sub> → SO <sub>2</sub> + CO <sub>2</sub> (Pre-treatment tube) SO <sub>2</sub> + BaCl <sub>2</sub> + H <sub>2</sub> O → BaSO <sub>3</sub> + 2HCl HCl + Base → Chloride (Detector tube)		
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
Hexane	300	No	No Effect
Hydrogen sulphide	100	+	
Sulphur dioxide	20	+	

### 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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