

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Carbon Disulphide

CS<sub>2</sub>

SCS-3

TLV (TWA): 1 ppm

TLV (STEL): ----

Flammable Range: 1.3 - 50%

### Specification:

Measurement Range	Extended	Standard	Extended
	2.5 – 5 ppm	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	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Greenish 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
Ammonia	70	No	No Effect
Hydrogen sulphide	95	+	
Sulphur dioxide	30	+	

### 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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