

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Disulphide CS_2

SCS-3

TWA (TLV): 1 ppm

STEL (TLV): NA

Flammable Range: 1.3 - 50%

Specification:

Measurement Range	Extended	Standard	Extended
	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	1.5 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	CS ₂ + CrO ₃ + H ₂ S ₂ O ₇ → SO ₂ + CO ₂ SO ₂ + BaCl ₂ + H ₂ O → BaSO ₃ + 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
Ammonia	70	No	No Effect
HCN	55	No	Ring
H ₂ S	95	+	
SO ₂	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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Rev.0812