

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Disulphide CS₂

SCS-2

TLV (TWA): 1 ppm

TLV (STEL): ----

Flammable Range: 1.3 - 50%

Specification:

Measurement Range	Extended	Standard	Extended
	1.25 – 25 ppm	2.5 – 50 ppm	5 – 100 ppm
No. of Pump Strokes	4 (400 mL)	2 (200 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	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 (Pre-treatment tube) SO ₂ + BaCl ₂ + H ₂ O → BaSO ₃ + 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
Hydrogen sulphide	50	+	
Ammonia	70	No	No Effect
Hexane	35	No	No Effect

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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