

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Monoxide in Hydrogen

SCH-3

TLV (TWA): 25 ppm

TLV (STEL): ----

Flammable Range: 13-74%

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	5 - 100 ppm	Do not extend
No. of Pump Strokes	3 (300 mL)		
Volume Correction Factor (VCF)*	1.0		
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	White → Brownish Green		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CO} + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{I}_2$		
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	100%	No	No Effect
Carbon dioxide		No	No Effect
Hydrogen sulphide		+	
Nitrogen dioxide		+	
Sulphur dioxide		+	Diffuse

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 %.

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