

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Monoxide co

SCO- 8

TWA (TLV): 25 ppm

STEL (TLV): 50 ppm

Flammable Range: 13-74%

Specification:

Measurement Range	Extended	Standard	Extended
	0.5 – 10 %	1 – 20 %	Do not extend
No. of Pump Strokes	1(100 mL)	1/2(50 mL)	
Volume Correction Factor (VCF)*	0.5	1	
Sampling Time	2 minutes for half pump stroke (50 mL)		
Color Change	White → Dark brown		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CO} + \text{I}_2\text{O}_5 + \text{H}_2\text{SO}_7 \rightarrow \text{I}_2$		
Relative standard deviation	± 10 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

Compound	Concentration (%)	Interference	Colour change / Comments
H ₂ S	0.01	No	No Effect
NH ₃	0.03	No	No Effect
CH ₄	2.50	No	No Effect
Hexane	0.12	No	Ring
Toluene	0.01	No	No Effect

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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