

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Carbon Monoxide co

## SCO- 7

TWA (TLV): 25 ppm

STEL (TLV): 50 ppm

Flammable Range: 13-74%

### Specification:

	Extended	Standard	Extended
Measurement Range	0.05 – 2.5 %	0.1 – 5 %	0.2 – 10 %
No. of Pump Strokes	2(200 mL)	1(100 mL)	1/2 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2
Sampling Time	3.5 minutes per pump stroke (100 mL)		
Color Change	White → Brownish green		
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 <sub>2</sub> S	0.01	No	No Effect
NH <sub>3</sub>	0.03	No	No Effect
CH <sub>4</sub>	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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Rev.0812