

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Dioxide CO_2

SCD-10

TWA (TLV): 5000 ppm

STEL (TLV): 30,000 ppm

Non Flammable

Specification:

	Extended	Standard	Extended
Measurement Range	2.5-30%	5-60%	Do not extend
No. of Pump Strokes	1 (100 mL)	0.5 (50 mL)	
Volume Correction Factor (VCF)*	0.5	1.0	
Sampling Time	2.0 minutes for ½ pump stroke (50 mL)		
Color Change	Blue → Off white		
Shelf Life	2 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH		
Reaction Principle	$\text{CO}_2 + \text{NaOH} \rightarrow \text{NaCO}_3 + \text{H}_2\text{O}$		
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
CH ₄	2.5	No	No Effect
CO	3.8	No	No Effect
NH ₃	0.05	No	No Effect
NO	0.01	No	No Effect
H ₂ S	1	No	No Effect
SO ₂	3.5	No	No Effect
n-Hexane	0.12	No	No Effect
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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