

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Dioxide CO_2

SCD-8M

TWA (TLV): 5000 ppm

STEL (TLV): 30,000 ppm

Non Flammable

Specification:

Measurement Range	Extended	Standard	Extended
	0.25-5%	0.5-10%	1-20%
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	2.5 minutes per pump stroke		
Color Change	Blue → Off white		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F) in dark place		
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
CO	1.5	+	Color darkens
H ₂ S	0.2	+	
NH ₃	5	No	No Effect
Benzene	0.01	No	Dark blue ring

Correction for Environmental Parameters:

Temperature (°C) :	4	20	30	40
Temperature Correction Factor (TCF) *	0.93	1	1.06	1.24
Relative humidity	Not necessary between 10 - 90 %.			

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



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