

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

2- Butanol

C₄H₉OH

SIB-4L

TWA (TLV): 100 ppm

STEL (TLV): NA

Flammable Range: 1.7- 9.8%

Specification:

	Extended	Standard	Extended
Measurement Range	Do not extend	10-150 ppm	20-300 ppm
No. of Pump Strokes		2 (200 mL)	1 (100 mL)
Volume Correction Factor (VCF)*		1.0	2.0
Sampling Time	3.5 minutes per pump stroke		
Color Change	Yellow → Pale 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	$C_4H_9OH + Cr^{6+} + H_3PO_4 \rightarrow Cr^{3+}$		
Relative standard deviation	± 10 %		

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

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Alcohol		+	Yellow to Pale green

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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