

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Butyl Acrylate

C₇H₁₂O₂

SBC-3L

TLV (TWA): 2 ppm

TLV(STEL):----

Flammable Range: 1.5 – 7.8 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	5 – 60 ppm	Do not extend
No. of Pump Strokes		3 (300 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minutes per pump stroke (100 mL)		
Color Change	Yellow → Pale blueish/greenish		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CH}_2=\text{CHCO}_2(\text{CH}_2)_3\text{CH}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$		
Relative standard deviation	± 10 – 15 %		

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

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Alcohols		+	Pale blueish/greenish
Esters		+	Pale blueish/greenish
Ketones		+	Pale blueish/greenish

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 – 90 %.



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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