

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

n-Butane

C₄H₁₀

SBT-5M

TWA (TLV): 800 ppm

STEL (TLV): NA

Flammable Range: 1.6 – 8.5 %

Specification:

	Extended	Standard	Extended
Measurement Range	Do not extend	50 – 1400 ppm	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	4.5 minutes per pump stroke (100 mL)		
Color Change	Pale 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	CH ₃ (CH ₂) ₂ CH ₃ + Cr ⁶⁺ + H ₂ SO ₄ → 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
Propane	500	+	
Isobutylene	105.85	+	
N - Pentane	200	+	
Hexane	1500	+	
H ₂ S	500	+	Ring

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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