

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## n-Butane

C<sub>4</sub>H<sub>10</sub>

## SBT-5M

TLV (TWA): 800 ppm

TLV (STEL): ----

Flammable Range: 1.6 – 8.5 %

### Specification:

Measurement Range	Extended	Standard	Extended
	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 <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub> + Cr <sup>6+</sup> + H <sub>2</sub> SO <sub>4</sub> → Cr <sup>3+</sup>		
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
Propane	500	+	
Isobutylene	106	+	
N - Pentane	200	+	
Hexane	1500	+	
Hydrogen sulphide	500	+	Ring

### 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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