

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Nitric Acid



## SNA-2M

TLV (TWA): 2 ppm

TLV (Ceiling): 4 ppm

Flammable Range: NA %

### Specification:

Measurement Range	Extended	Standard	Extended
	0.5 – 1 ppm	1 – 20 ppm	20 – 40 ppm
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	1 minute per pump stroke (100 mL)		
Color Change	Greenish yellow → Purple		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 10 mg/l		
Reaction Principle	$\text{HNO}_3 + \text{Base} \rightarrow \text{Reaction product}$		
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
Hydrogen chloride		+	Purple
Chlorine		+	Purple
Carbon monoxide	10	No	No Effect
Nitrogen dioxide	10	No	No Effect
Methanol	100	No	No Effect

### Other Measurable Compounds:

Compound	Gas Correction factor (GCF)*	No. of pump strokes	Measuring range
Hydrogen Bromide	0.8	1	0.8-16 ppm

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

### Correction for Environmental Parameters:

**Temperature** - Not necessary between 0 - 40°C (32 - 104°F).

Relative Humidity (mg/l):	6	8	10	12	16
Correction Factor (HCF)*:	0.6	0.8	1.0	1.2	1.4

\* Multiply the observed reading by the correction factors (VCFxHCF) to obtain the true concentration.



**Manufactured By:** Uniphos Envirotronic Pvt. Ltd.  
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Rev.0823