

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Nitric Acid



SNA-2M

TWA (TLV): 2 ppm

Ceiling (TLV): 4 ppm

Flammable Range: NA %

Specification:

	Extended	Standard	Extended
Measurement Range	0.5 – 10 ppm	1 – 20 ppm	2 – 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 %		

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

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
HCl		+	Greenish yellow to Purple
Cl ₂		+	Greenish yellow to Purple
CO	10	No	No Effect
NO ₂	10	No	No Effect
Methanol	100	No	No Effect

Correction for Environmental Parameters:

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

Humidity (mg/l):	6	8	10	12	16
Correction Factor (HCF)*:	0.53	0.72	1.0	1.2	1.41

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



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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