

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Fluoride HF

TWA (TLV): NA

Ceiling (TLV): 3 ppm

SHF-2

Not Flammable

Specification:

	Extended	Standard	Extended
Measurement Range	Do not extend	0.5-30 ppm	1-60 ppm
No. of Pump Strokes		4 (400 mL)	2 (200 mL)
Volume Correction Factor (VCF)*		1.0	2.0
Sampling Time	1 minute per pump stroke		
Color Change	Pale green → Purple		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	HF + Base → Reaction product		
Relative standard deviation	± 10 %		

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

Possible Interferences:

Compound	Correction Factor	No. of pump strokes	Measuring range
HCl		+	Pale green to Purple
Cl ₂		+	Pale green to Purple
H ₂ S	800	No	No effect
SO ₂	200	No	No effect

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).				
Relative humidity					
Relative Humidity at 20°C:	30%	40%	50%	60%	80%
Correction Factor (HCF)*:	0.5	0.7	1.0	1.2	1.7

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



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