

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ammonia

NH₃

SAM-2

TWA (TLV): 25 ppm

STEL (TLV): 35 ppm

Flammable Range: 15-28%

Specification:

Measurement Range	Extended	Standard	Extended
	0.5-2.5 ppm	2.5-50 ppm	5-100 ppm
No. of Pump Strokes	5 to 2 (500-200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.2 to 0.5	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Yellow → Blue		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	NH ₃ + Acid → 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
Amines		+	Yellow to Blue
Hydrazine		+	Yellow to Blue
CO ₂	2%	+	
CO	100	+	Blue ring

Other Measurable Compounds:

Compound	Gas Correction factor (GCF)*	No of pump strokes	Measuring Range / Comments
Diethylamine	0.52	1	1.3 – 26 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	Not necessary between 10 - 90 %.

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