

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ammonia

NH₃

SAM-9

TLV (TWA): 25 ppm

TLV(STEL): 35 ppm

Flammable Range: 15-28%

Specification:

Measurement Range	Extended	Standard	Extended
	0.5 – 1 %	1 - 30 %	30 – 60 %
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	Yellow → Violet		
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 to 15 %		

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

Possible Interferences:

Compound	Concentration (%)	Interference	Colour change / Comments
Amines		+	Violet
Hydrazine		+	Violet
Carbon dioxide	10	No	No Effect

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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