

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ammonia

NH₃

SAM-8M

TWA (TLV): 25 ppm

STEL (TLV): 35 ppm

Flammable Range: 15-28%

Specification:

| Measurement Range | Extended | Standard | Extended |
|---------------------------------|-------------------------------------------|------------|-------------|
| | 0.25 – 5 % | 0.5 -10 % | 1 – 20 % |
| 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 → 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 | 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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