

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Acid Gases

(As acetic acid)

SAA-2

TLV (TWA) : 10 ppm

TLV (STEL): 15 ppm

Flammable Range: 4 – 19.9 %

Specification:

Measurement Range	Extended	Standard	Extended
	1 – 2 ppm	2 - 40 ppm	40- 80 ppm
No. of Pump Strokes	4 (400 mL)	2 (200 mL)	1 (100 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1 minute per pump stroke (100 mL)		
Color Change	Purple → Yellow		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	CH ₃ COOH + Base → Reaction product		
Relative standard deviation	± 10 to 15 %		

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

Possible Measurable Substances:

Compound	No. of stroke	Gas correction factor (GCF)*	Measuring Range (ppm)	Colour Change
HCl	2	5.8	11.6 – 232	Pink with yellow top
Cl ₂	2	0.6	1.2 - 24	White
Iodine	2	0.9	1.8 - 36	Greenish gray
NO ₂	2	1.9	3.8 - 76	Yellow
Nitric acid	2	6.6	13.2 - 264	Pink with yellow top

*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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