

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Amines

(As CH_3NH_2)

SMA-3

TWA (TLV): 5 ppm

STEL (TLV): 15 ppm

Flammable Range: 5-21%

Specification:

	Extended	Standard	Extended
Measurement Range	2.5-50 ppm	5-100 ppm	10-200 ppm
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	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CH}_3\text{NH}_2 + \text{Acid} \rightarrow \text{Reaction product}$		
Relative standard deviation	± 10 %		

* 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)	TLV (ppm)	Colour Change
Methylamine	1	1.0	5 – 100	5	Yellow - Blue
Ethylamine	1	0.85	4.25 – 85	5	Yellow - Blue
n-Butylamine	1	1.0	5 – 100	C5	Yellow - Blue
Trimethylamine	1	0.34	1.7 – 34	5	Yellow – Light green
Triethylamine	1	0.43	2.15 – 43	1	Yellow - Blue
Isopropylamine	1	0.64	3.2 – 64	5	Yellow - Blue
Ammonia	1	0.89	4.45 – 89	25	Yellow - Blue
Diethylamine	1	0.65	3.25 – 65	5	Yellow - Blue
Cyclohexylamine	1	1.3	6.65 – 133	10	Yellow - Blue
Ethanolamine	3	3.7	18.5 - 370	3	Yellow - Blue
tert -Butylamine	1	0.78	3.9 – 78	NA	Yellow - Blue
Morpholine	1	2.0	10 – 200	20	Yellow - Blue

* 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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