Amines (as Methylamine) (CH_3NH_2) SMA-3

Specification :

Measurement Range	Extended	Standard	Extended
	2.5-5 ppm	5-100 ppm	100-200 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		
Detection Limit	1.0 ppm (2 pump strokes)		
Shelf Life	2 years		
Relative standard deviation	± 10 to 15 %		

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

Reaction Principle :

CH_3NH_2 + Acid → Reaction product

Cross Sensitivity:

Compound	No. of stroke	Gas Correction Factor GCF*	Measuring Range (ppm)	TLV (ppm)	Color Change
Ethylamine	1	0.9	4.5 – 90	5	Blue
n-Butylamine	1	1.0	5 – 100	C:5	Blue
Trimethylamine	1	0.38	1.9 – 38	5	Light green
Triethylamine	1	0.67	3.35 – 67	1	Blue
Isopropyl amine	1	0.8	4 – 80	5	Blue
Ammonia	1	1.0	5 – 100	25	Blue
Diethylamine	1	0.77	3.85 – 77	5	Blue
Cyclohexylamine	1	1.32	6.6 – 132	10	Blue
Ethanolamine	3	3.7	18.5 - 370	3	Blue
tert –Butylamine	1	0.78	3.9 – 78	5	Blue
Morpholine	1	2.0	10 – 200	20	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 %.

Calibration Of The Tube :

Static gas dilution method.

TLV (TWA): 5 ppm TLV (STEL): 15 ppm Flammable Range: 5-21 %