

1. PERFORMANCE

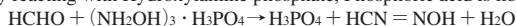
- 1) Measuring range : 0.01 ~ 0.50 ppm (12.5 ~ 625 $\mu\text{g}/\text{m}^3$)
- 2) Sampling volume : 350ml/min \times 10min
- 3) Sampling time : 10 minutes
- 4) Detectable limit : 0.005 ppm
- 5) Shelf life : 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10°C)
- 6) Operating temperature : 10 ~ 35 °C
- 7) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 8) Reading : Direct reading from the scale calibrated at sampling volume of 350ml \times 10min
- 9) Colour change : Yellowish orange \rightarrow Pink

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % RSD-mid. : 10 % RSD-high : 10 %

3. CHEMICAL REACTION

By reacting with Hydroxylamine phosphate, Phosphoric acid is liberated.



4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Ammonia		The accuracy of readings is not affected.	1.0	Discolouration layer fades from the bottom of stained layer.
Amines		∕	1.0	∕
Ethanol		∕	200	Higher readings are given.
Nitrogen dioxide	1	Similar stain is produced.	1.0	Higher readings with indiscernible maximum end point of stained layer are given.
Acetaldehyde		∕		Higher readings are given.
Acetone		∕		∕

(NOTE)

Air sampler is required for this tube.

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)					
	10 °C (50 F)	15 °C (59 F)	20 °C (68 F)	25 °C (77 F)	30 °C (86 F)	35 °C (95 F)
0.50	—	0.780	0.500	0.390	0.340	0.290
0.40	0.900	0.520	0.400	0.310	0.270	0.230
0.30	0.550	0.370	0.300	0.230	0.200	0.170
0.20	0.330	0.250	0.200	0.155	0.135	0.115
0.10	0.150	0.120	0.100	0.080	0.070	0.060
0.05	0.070	0.060	0.050	0.040	0.035	0.030
0.01	0.020	0.015	0.010	0.008	0.007	0.006