

1. PERFORMANCE

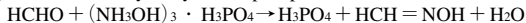
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|-----------------------------|---|--------------|
| 1) Measuring range | : 0.1-4.0 ppm | 0.05-2.0 ppm |
| Number of pump strokes | 5 (500ml) | 10 (1000ml) |
| 2) Sampling time | : 5 minutes/5 pump strokes | |
| 3) Detectable limit | : 0.03 ppm (1000ml) | |
| 4) Shelf life | : 1 year (Necessary to store in a refrigerated place ; 0 ~ 10 °C) | |
| 5) Operating temperature | : 10 ~ 40 °C | |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE") | |
| 7) Reading | : Direct reading from the scale calibrated by 5 pump strokes | |
| 8) Colour change | : Yellow → Pink | |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reaction with Hydroxylamine phosphate acid is liberated and PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

COLOURIMETRY METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Ammonia		The accuracy of readings is not affected.	10	Lower readings are given. Inlet side is faded the discoloured layer.
Nitrogen dioxide	3	Similar stain is produced.	3	Higher readings are given. The top of discoloured layer becomes unclear.
Acetaldehyde		∕		Higher readings are given.
Toluene		The accuracy of readings is not affected.		

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)			
	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
4.0	6.4	4.0	2.4	1.6
3.5	5.6	3.5	2.1	1.4
3.0	4.8	3.0	1.8	1.2
2.5	4.0	2.5	1.5	1.0
2.0	3.2	2.0	1.2	0.8
1.5	2.4	1.5	0.9	0.6
1.0	1.6	1.0	0.6	0.4
0.5	0.8	0.5	0.3	0.2
0.3	0.5	0.3	0.18	0.12
0.1	0.16	0.1	0.06	0.04

(NOTE)

In case of 10 pump strokes, following formula is available for the actual concentration.

Actual concentration = 1/2 × Temperature corrected value