

1. PERFORMANCE

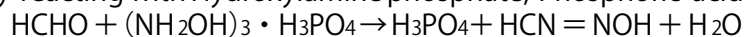
- 1) Measuring range : 0.04-0.48ppm 0.01-0.12ppm
- 2) Sampling time : 300mL/min × 10min 300mL/min × 30min
- 3) Detectable limit : 0.005 ppm (300mL × 30min)
- 4) Shelf life : 1 year (Necessary to store in refrigerated conditions; 0~10°C)
- 5) Operating temperature : 10~35°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION COEFFICIENT TABLE")
- 7) Reading : Direct reading from the scale calibrated at the sampling of 300mL × 30min
- 8) Colour change : Yellowish orange → 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

DNPH-HPLC METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|------------------|---|-----|--|
| Ammonia | The accuracy of readings is not affected. | 0.5 | Discolouration layer fades from the bottom of stained layer. |
| Amines | // | 0.5 | // |
| Nitrogen dioxide | Similar stain is produced. | 0.5 | 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.

TABLE OF THE COEFFICIENT FOR TEMPERATURE CORRECTION (20°C standard)

| Temp(°C) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----------|------|------|------|------|------|------|------|------|------|------|
| 10 | 1.40 | 1.36 | 1.32 | 1.28 | 1.24 | 1.20 | 1.16 | 1.12 | 1.08 | 1.04 |
| 20 | 1.00 | 0.97 | 0.94 | 0.91 | 0.88 | 0.85 | 0.82 | 0.79 | 0.76 | 0.73 |
| 30 | 0.70 | 0.67 | 0.64 | 0.61 | 0.58 | 0.55 | — | — | — | — |