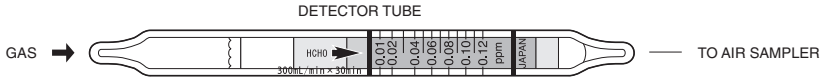
Tube No.
710

FORMALDEHYDE



1. PERFORMANCE

1) Measuring range : 0.01-0.12 ppm 0.04-0.48 ppm
2) Sampling time : 300mℓ/min × 30min 300mℓ/min × 10min
3) Detectable limit : 0.005 ppm (300mℓ × 30min)
4) Shelf life : 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10 ℃)
5) Operating temperature : 10 ~ 35 ℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION 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.

$$HCHO + (NH_2OH)_3 \cdot H_3PO_4 \rightarrow H_3PO_4 + HCN = NOH + H_2O$$

4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC 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 ℃ standard)

Temp(℃)	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	—	—	—	—