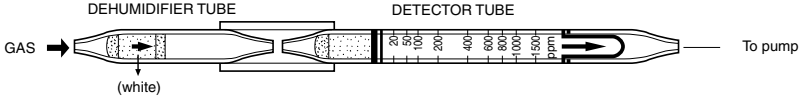
Tube No.
171SA

FORMALDEHYDE



1. PERFORMANCE

1) Measuring range : 20-1,500 ppm
   Number of pump strokes 1(100mℓ)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : 5 ppm
4) Shelf life : 2 years(Necessary to store in a refrigerated place ; 0 ~ 10℃)
5) Operating temperature : 0 ~ 40℃
6) Temperature compensation : Necessary(See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Colour change : Yellow→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 and PH indicator is discoloured.

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

4. CALIBRATION OF THE TUBE

COLOURIMETRY METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Other Aldehydes	Similar stain is produced.		Higher readings are given.
Ketones	〃		〃
Methanol		Formal-dehyde conc. ×1/2	Lower readings are given.

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)						
	0℃ (32°F)	10℃ (50°F)	20℃ (68°F)	25℃ (77°F)	30℃ (86°F)	35℃ (95°F)	40℃ (104°F)
1,500	—	—	1,500	900	690	530	410
1,000	—	—	1,000	700	550	430	340
800	—	1,300	800	600	490	390	300
600	1,200	900	600	490	410	330	250
400	600	520	400	350	290	230	180
200	240	230	200	180	150	130	100
130	100	100	100	90	80	70	60
50	50	50	50	45	40	35	30
20	20	20	20	20	20	20	20