

Tube No. **NX202***



1. PERFORMANCE

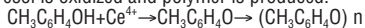
- 1) Measuring range : 0.5-25.0 ppm
- Number of pump strokes : 2 (200mL)
- 2) Sampling time : 3 minutes / 2 pump strokes
- 3) Detectable limit : 0.3 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 10-40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : The tube scale is calibrated based on Phenol at 2 pump strokes and the tube has the same sensitivity for Cresol.
- 8) Color change : Pale yellow→Pale brown

2. RELATIVE STANDARD DEVIATION

RSD-low: 10% RSD-mid.: 5% RSD-high: 5%

3. CHEMICAL REACTION

Cresol is oxidized and polymer is produced.



4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance		Interference	ppm	Coexistence
Phenols	FIG.1	Similar stain is produced.	2.5	Higher readings are given.
Ammonia	FIG.2	White stain is produced.	200	Discoloration of gas inlet side is faded and higher reading is given.
Aliphatic Amines		"	50	"
Aromatic Amines		Blue stain is produced.	50	Two layers discoloration of Pale brown and blue are produced and higher reading is given.

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)					
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)	
25.0	31.2	27.8	25.0	21.8	18.8	
20.0	24.5	22.3	20.0	17.5	15.0	
15.0	18.4	16.7	15.0	13.1	11.3	
10.0	12.3	11.1	10.0	8.8	7.5	
5.0	6.1	5.6	5.0	4.4	3.8	
3.0	3.7	3.3	3.0	2.6	2.3	
1.0	1.2	1.1	1.0	0.9	0.8	
0.5	0.5	0.5	0.5	0.5	0.5	

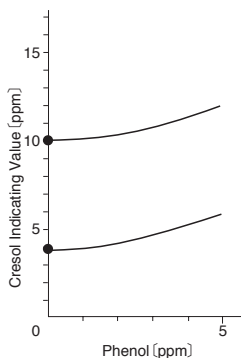


FIG.1 Influence of Phenol

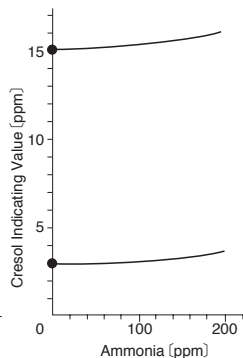


FIG.2 Influence of Ammonia

*PHENOL TUBE