Tube No.
112SC

HYDROGEN CYANIDE

1. PERFORMANCE

1) Measuring range : 0.3-8 ppm
   Number of pump strokes 3(300mL)
2) Sampling time : 4.5 minutes/3 pump strokes
3) Detectable limit : 0.15 ppm(300mL)
4) Shelf life : 1 year
5) Operating temperature : 0～40℃
6) Temperature compensation: Necessary(See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 3 pump strokes
8) Colour change : Yellow→Red

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Hydrogen cyanide reacts with Mercuric chloride and liberates hydrogen chloride, then PH indicator is discoloured.

$HCN + H_gCl_2 \rightarrow HCl$

4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Sulphur dioxide	Red stain is produced.	1.0	Higher readings are given.
Hydrogen sulphide	〃		〃
Ammonia		2.0	〃
Phosphine	Red stain is produced.		〃

TEMPERATURE CORRECTION TABLE (on a basis of 20℃)

Scale Readings (ppm)	True Concentration (ppm)				
	0℃ (32°F)	10℃ (50°F)	20℃ (68°F)	30℃ (86°F)	40℃ (104°F)
8	10.0	8.8	8.0	7.5	7.0
7	8.3	7.6	7.0	6.6	6.2
6	6.9	6.4	6.0	5.6	5.4
5	5.8	5.2	5.0	4.8	4.5
4	4.5	4.2	4.0	3.8	3.7
3	3.4	3.2	3.0	2.9	2.8
2	2.2	2.1	2.0	1.9	1.8
1	1.1	1.1	1.0	0.9	0.9
0.6	0.7	0.7	0.6	0.5	0.5
0.3	0.3	0.3	0.3	0.3	0.3