

HYDROGEN CYANIDE



1. PERFORMANCE

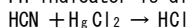
- 1) Measuring range : 0.3–8 ppm
Number of pump strokes : 3 (300mL)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 0.15 ppm (300mL)
- 4) Shelf life : 1 year
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation: Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) 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.



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°C)

Scale Readings (ppm)	True Concentration (ppm)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (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