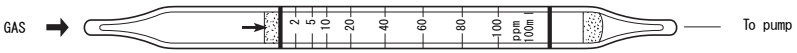
Tube No.
112SB

HYDROGEN CYANIDE



1. PERFORMANCE

1) Measuring range : 2-100 ppm 0.5-25 ppm
   Number of pump strokes 1 (100mL) 4(400mL)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 0.2 ppm(400mL)
4) Shelf life : 2 years(Necessary to store in a refrigerated place ; 0～10℃)
5) Operating temperature : 0～40℃
6) Reading : Direct reading from the scale calibrated by 1 pump stroke
7) Colour change : Yellow→Red

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Mercury chloride, Hydrogen sulphide is liberated and PH indicator is discoloured.

$HCN + HgCl_2 \rightarrow HCl$

4. CALIBRATION OF THE TUBE

COLOURIMETRY METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Sulphur dioxide	Similar stain is produced.	1	Higher readings are given.
Hydrogen sulphide FIG.1	〃	3	〃
Ammonia	The accuracy of readings is not affected.	5	Lower readings are given.

(NOTE)

In case of 4 pump strokes, following formula is available for the actual concentration.

Actual concentration = Reading value $\times \frac{1}{4}$

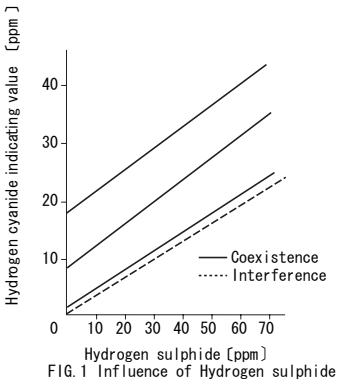


FIG.1 Influence of Hydrogen sulphide