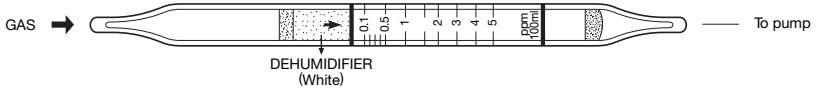
Tube No.
242SⓒHYDROGEN SELENIDE



1. PERFORMANCE

1) Measuring range : 1-20 ppm 0.5-10 ppm
Number of pump strokes 1(100mℓ) 2(200mℓ)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : —
4) Shelf life : 2 years
5) Operating temperature : 15 ~ 20℃
6) Reading : The tube scale is calibrated based on Diborane at 1 pump stroke and Hydrogen selenide concentration is determined by using a conversion chart at 1 and 2 pump strokes
7) Colour change : Pale yellow→Reddish purple

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Mercuric cholride, Hydrogen chloride is liberated and PH indicator is discoloured.

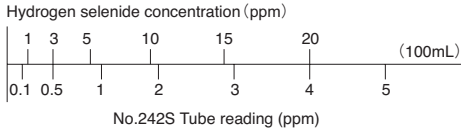
$H_2Se + HgCl_2 \rightarrow 2HCl$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Arsine	Similar stain is produced.	Higher readings are given.
Phosphine	〃	〃
Monosilane	The maximum end point of stained layer is indiscernible.	〃
Disilane	〃	〃
Monogermane	The accuracy of readings is not affected.	The accuracy of readings is not affected.



(NOTE)

In case of 2 pump strokes, following formula is available for the actual concentration.

Actual concentration = Converted value × 1/2