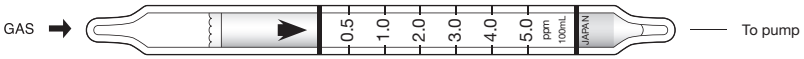
Tube No.
130U

ISOPROPYL MERCAPTAN



1. PERFORMANCE

1) Measuring range : 1-10 ppm 0.5-5 ppm
Number of pump strokes 1/2(50mℓ) 1(100mℓ)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 0.2 ppm(100mℓ)
4) Shelf life : 2 years
5) Operating temperature : 0～40℃
6) Reading : The tube scale is calibrated based on Methyl mercaptan at 1 pump stroke and the tube has the same sensitivity for Isopropyl mercaptan.
7) Colour change : Pale yellow→Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

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

$RSH + HgCl_2 \rightarrow RS(HgCl) + CI$

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Arsine	Similar stain is produced.	Higher readings are given.
Hydrogen selenide	〃	〃
Phosphine	〃	〃
Hydrogen sulphide	〃	〃
Hydrogen cyanide	Whole reagent is discoloured to Red.	〃
Sulphur dioxide		Whole reagent is changed to Pale red, but Pink stain indicates Mercaptans conc.

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.
Actual concentration = 2 × Reading value