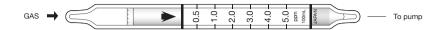
TERT-BUTYL MERCAPTAN



1. PERFORMANCE

4) Shelf life : 2 years 5) Operating temperature : $0 \sim 40 \,^{\circ}\text{C}$

6) Reading : The tube scale is calibrated based on Methyl mercaptan at 1 pump stroke and

the tube has the same sensitivity for tert-Butyl 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. (CH₃)₃CSH + HgCl₂→(CH₃)₃CS (HgCl) + HCl

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 changed 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 = $2 \times \text{Reading value}$