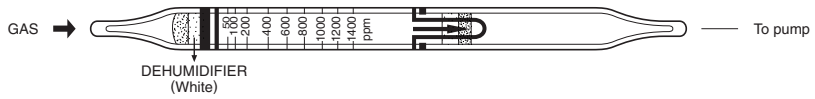
Tube No.
113SBⓒ ISOBUTANE



1. PERFORMANCE

1) Measuring range : 50-1,200 ppm
   Number of pump strokes 1 (100mℓ)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : 10 ppm
4) Shelf life : 2 years
5) Operating temperature : 0 ~ 40℃
6) Reading : Graduations printed on the tube are calibrated by n-Hexane at 1 pump stroke and Isobutane concentration is determined by using a conversion chart.
7) Colour change : Orange → Yellowish green

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced

$(CH_3)_3CH = Cr^{6+} \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Alcohols	Similar stain is produced.	6%	Higher readings are given.
Ketones	〃	〃	〃
Esters	〃	〃	〃
Aromatic hydrocarbons FIG.1.2			The top of the discoloured layer is stained to Black and higher readings are given.
Aliphatic hydrocarbons (more than C_3)	Similar stain is produced.		Higher readings are given.

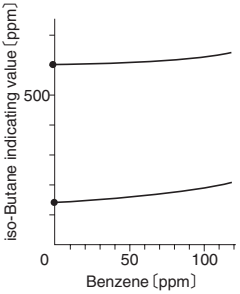


FIG.1 Influence of Benzene

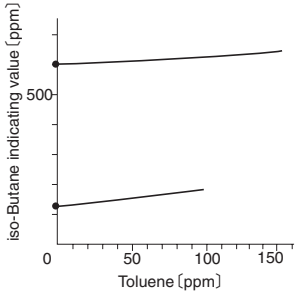


FIG.2 Influence of Toluene