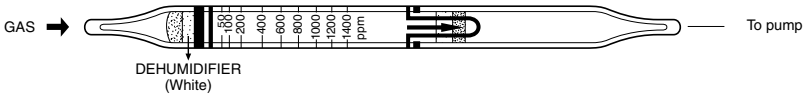
Tube No.
113SBⓒ ISOBUTANE



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 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.
Paraffin hydrocarbons (more than C_3)	Similar stain is produced.		Higher readings are given.

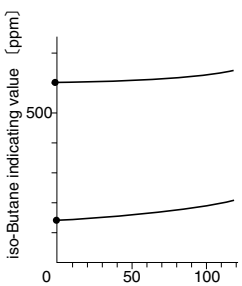


FIG.1 Influence of Benzene

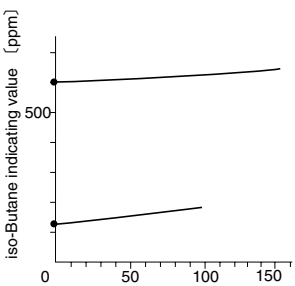


FIG.2 Influence of Toluene