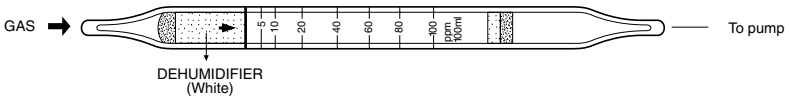
Tube No.
168SC

1,3-BUTADIENE



1. PERFORMANCE

1) Measuring range : 5-100 ppm 2.5-50 ppm
Number of pump strokes 1(100mℓ) 2(200mℓ)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : 0.5 ppm(200mℓ)
4) Shelf life : 1 year
5) Operating temperature : 0～40℃
6) Reading : Direct reading from the scale calibrated by 1 pump stroke
7) Colour change : Pale yellow→Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.

$CH_2=CHCH=CH_2+Cr^{6}+H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Esters	Similar stain is produced.	Higher readings are given.
Alcohols	〃	〃
Ketones	〃	〃
Aromatic hydrocarbons (more than C_3)	Whole reagent is changed to Pale brown.	〃

(NOTE)

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