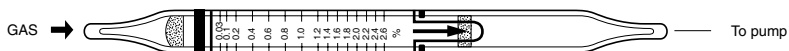


Tube No.  
**168SA**

# 1, 3-BUTADIENE



## 1. PERFORMANCE

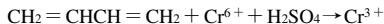
- 1) Measuring range : 0.03-2.6 %  
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Brownish orange → Dark brown

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Chromium oxide is reduced.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Acetylene	Whole reagent is discoloured to Brown.	3%	Higher readings are given.
Propane	∕	0.2%	∕
Other organic gases or vapours except Halogenated hydrocarbons	Similar stain is produced.	50	∕

TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
2.6	3.3	3.0	2.6	2.5	2.4
2.4	3.0	2.7	2.4	2.3	2.2
2.2	2.7	2.5	2.2	2.1	2.0
2.0	2.4	2.2	2.0	1.9	1.8
1.8	2.1	2.0	1.8	1.8	1.7
1.6	1.9	1.8	1.6	1.6	1.5
1.4	1.6	1.5	1.4	1.4	1.3
1.2	1.4	1.3	1.2	1.2	1.1
1.0	1.1	1.1	1.0	1.0	0.9
0.8	0.9	0.8	0.8	0.8	0.7
0.6	0.7	0.6	0.6	0.6	0.6
0.4	0.4	0.4	0.4	0.4	0.4