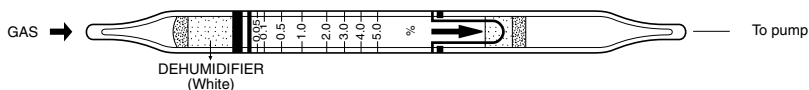


Tube No.
104SA

ETHYL ALCOHOL (ETHANOL)



1. PERFORMANCE

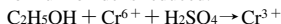
- | | |
|-----------------------------|--|
| 1) Measuring range | : 0.05-5.0 % |
| Number of pump strokes | 1 (100mℓ) |
| 2) Sampling time | : 1.5 minutes/1 pump stroke |
| 3) Detectable limit | : 100 ppm |
| 4) Shelf life | : 3 years |
| 5) Operating temperature | : 0 ~ 40 °C |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE") |
| 7) Reading | : Direct reading from the scale calibrated by 1 pump stroke |
| 8) Colour change | : Yellowish orange → Pale green (The top of discoloured lauer is Brown, but read at the top Pale green.) |

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	Coexistence
Paraffin hydrocarbons (over C ₃)	Similar stain is produced.	Higher reading are given.
Alcohols	∕	∕
Esters	∕	∕
Ketones	∕	∕
Aromatic hydrocarbons	∕	∕
Halogenated hydrocarbons	Pale brown stain is produced.	If the top of discolouration by Ethanol can be obtained, the accuracy of readings is not affected.

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)
5.0	—	—	5.0	3.9	3.2
4.0	—	—	4.0	3.2	2.6
3.0	—	—	3.0	2.4	2.0
2.0	—	—	2.0	1.6	1.3
1.0	—	1.9	1.0	0.8	0.7
0.5	—	0.8	0.5	0.4	0.3
0.3	0.9	0.4	0.3	0.3	0.2
0.1	0.1	0.1	0.1	0.1	0.1