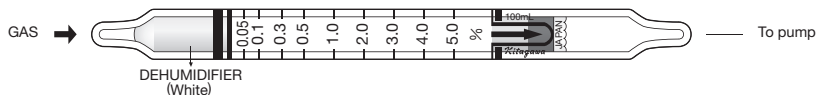


Tube No.
104SA

ETHYL ALCOHOL (ETHANOL)



1. PERFORMANCE

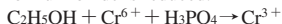
- 1) Measuring range : 0.05-5.0 %
Number of pump strokes : 1 (100ml)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 0.01 %
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Yellowish orange → Light green (The top of discoloured layer is Brown, but read at the top of 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
Aliphatic 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 maximum end point of the stain is discernable, the accuracy of readings is not affected.

TEMPERATURE CORRECTION TABLE

Tube Readings (%)	Corrected 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