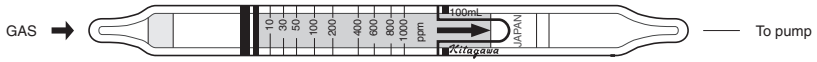
Tube No.
111U

ETHYL ACETATE



1. PERFORMANCE

1) Measuring range : 10-1,000 ppm
   Number of pump strokes 1 (100mℓ)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : 5 ppm
4) Shelf life : : 2 years
5) Operating temperature : 10 ~ 40 ℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION COEFFICIENT TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Colour change : Yellow → Brown

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.

$CH_3CO_2C_2H_5 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols	Similar stain is produced.	Higher reading are given.
Esters	〃	〃
Ketones	〃	〃
Aromatic hydrocarbons	〃	〃
Aliphatic hydrocarbons (more than C_3)	〃	〃
Halogenated hydrocarbons FIG.1	Whole reagent is discoloured to Pale brown.	If the maximum end point of the brown stain is discernable, the accuracy of readings is not affected.

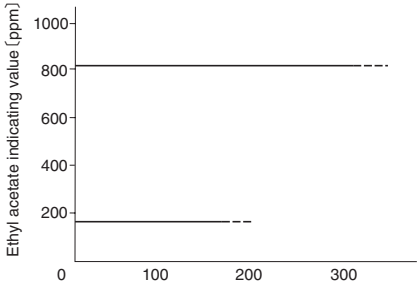


FIG.1 Influence of Trichloroethylene

TEMPERATURE CORRECTION COEFFICIENT TABLE

Tube Readings (ppm)	Correction Coefficient (at 20 ℃)						
	10 ℃ (50 ˚F)	15 ℃ (59 ˚F)	20 ℃ (68 ˚F)	25 ℃ (77 ˚F)	30 ℃ (86 ˚F)	35 ℃ (95 ˚F)	40 ℃ (104 ˚F)
1,000	1.33	1.17	1.00	0.87	0.74	0.64	0.53
800	1.38	1.19	1.00	0.86	0.73	0.63	0.53
600	1.40	1.20	1.00	0.86	0.72	0.63	0.53
400	1.40	1.20	1.00	0.85	0.70	0.58	0.46
200	1.40	1.20	1.00	0.84	0.68	0.55	0.42
100	1.50	1.25	1.00	0.81	0.62	0.48	0.33
50	1.50	1.25	1.00	0.77	0.54	0.43	0.32
30	1.50	1.25	1.00	0.77	0.53	0.42	0.30
10	1.50	1.25	1.00	0.75	0.50	0.40	0.30