

1. PERFORMANCE

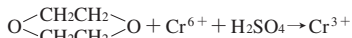
- 1) Measuring range : 20-500 ppm
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 5 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Graduations printed on the tube are calibrated by Methyl alcohol at 1 pump stroke and 1,4-Dioxane concentration is determined by using a conversion chart.
- 8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

RSD-low : 15% RSD-mid. : 10% RSD-high : 10%

3. CHEMICAL REACTION

Chromium oxide is reduced.



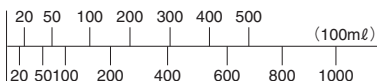
4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols FIG.1	Similar stain is produced.	Higher readings are given.
Esters FIG.2		∕
Aliphatic hydrocarbons (more than C ₃)	Whole reagent is changed to Pale brown.	∕
Aromatic hydrocarbons	∕	∕
Ketones	∕	∕
Halogenated hydrocarbons	∕	∕

1,4-Dioxane concentration (ppm)



No. 119U Tube reading (ppm)

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)
500	700	600	500	470	440
400	480	440	400	370	350
300	370	330	300	280	260
200	250	220	200	190	170
100	130	110	100	90	85
50	65	60	50	45	40
20	25	23	20	18	15