

## 1. PERFORMANCE

- 1) Measuring range : 5-500 ppm  
Number of pump strokes : 3 (300mℓ)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 2 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : The tube scale is calibrated based on Ethyl cellosolve at 3 pump strokes and the tube has the same sensitivity for Methyl cellosolve.
- 8) Colour change : Yellow → Pale blue

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 10% 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	Similar stain is produced.	Higher readings are given.
Ethers	∕	∕
Aliphatic hydrocarbons (more than C <sub>3</sub> )	Whole reagent is changed to Brown.	∕
Aromatic hydrocarbons	∕	∕
Esters	∕	∕
Ketones	∕	∕
Halogenated hydrocarbons FIG.1	∕	∕

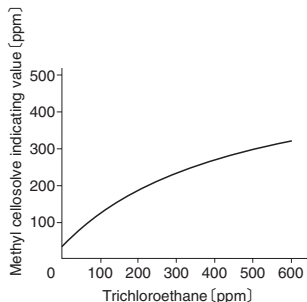


FIG.1 Influence of Trichloroethane

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)					
	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	25 °C (77 °F)	30 °C (86 °F)	35 °C (95 °F)
500	800	620	500	410	335	265
400	620	490	400	330	260	200
300	450	370	300	250	200	150
200	290	250	200	160	130	100
150	220	190	150	120	90	70
100	150	130	100	80	60	50
50	80	70	50	40	30	30
20	30	25	20	15	12	10
5	10	7	5	4	3	2