

1. PERFORMANCE

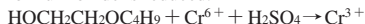
- 1) Measuring range : 10-1,000 ppm
Number of pump strokes 3 (300mℓ)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 2 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 10 ~ 35 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : The tube is calibrated based on Ethyl cellosolve. Butyl cellosolve concentration is determined by two times of the reading value after temperature correction.
- 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.
Esters	∕	∕
Aliphatic hydrocarbons (more than C ₃)	Whole reagent is changed to Brown.	∕
Aromatic hydrocarbons	∕	∕
Ketones	∕	∕
Halogenated hydrocarbons FIG.1	∕	∕

(NOTE)

Multiply the corrected value with Ethyl cellosolve temperature correction table by 2.

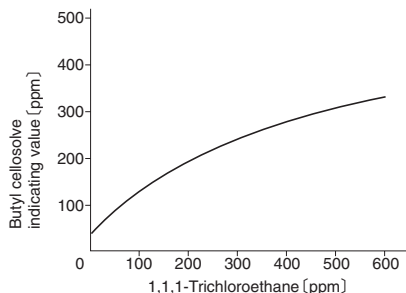


FIG.1 Influence of 1,1,1-Trichloroethane

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 (80 F)	35 C (95 F)
500	800	620	500	410	335	265
400	620	490	400	325	260	200
300	450	365	300	245	195	145
200	290	245	200	160	125	95
150	215	185	150	120	90	70
100	145	125	100	80	60	45
50	75	65	50	40	30	25
20	30	25	20	15	12	10
5	10	7	5	4	3	2