

1. PERFORMANCE

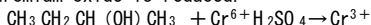
- 1) Measuring range : 10-300 ppm 4-120 ppm
Number of pump strokes : 2(200mL) 4(400mL)
- 2) Sampling time : 3 minutes/2 pump strokes
- 3) Detectable limit : 3 ppm(200mL)
- 4) Shelf life : 2 years
- 5) Operating temperature : 10~40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 2 pump strokes
- 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	Brown stain is produced.	Higher readings are given.
Ethers	"	"
Paraffinic hydrocarbons (more than C ₃)	Whole reagent is change to Pale brown.	"
Aromatic hydrocarbons	"	"
Esters	"	"
Ketones	"	"
Halogenated hydrocarbons FIG.1	"	"

(NOTE)

In case of 4 pump strokes, following equation is available for the actual concentration.
Actual concentration = 2/5 × Temperature corrected value

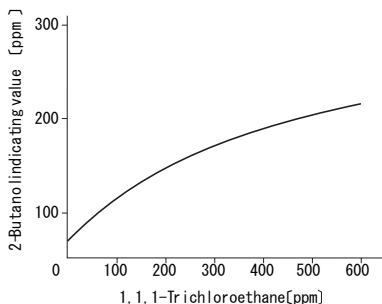


FIG.1 Influence of 1,1,1-Trichloroethane

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)					
	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	25 °C (77 °F)	30 °C (86 °F)	35 ~ 40 °C (95 ~ 104 °F)
300	480	360	300	270	250	240
250	390	290	250	230	220	210
200	300	230	200	190	190	180
150	200	160	150	150	140	140
100	110	100	100	100	100	100
50	50	50	50	50	50	50