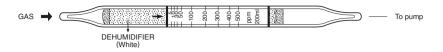
# **CYCLOHEXANOL**



#### 1. PERFORMANCE

1) Measuring range 5-500 ppmNumber of pump strokes  $2(200 \text{m} \ell)$ 

2) Sampling time : 3 minutes/2 pump strokes

3) Detectable limit  $\therefore$  2 ppm 4) Shelf life  $\therefore$  2 years 5) Operating temperature  $\therefore$  10  $\sim$  40  $^{\circ}$ 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: 10% RSD-mid.: 10% RSD-high: 10%

## 3. CHEMICAL REACTION

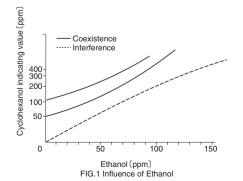
Chromium oxide is reduced.  $C_6H_{11}OH + C_7e^6 + H_2SO_4 \rightarrow C_7e^3 + C_7$ 

### 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

# 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence		
Aliphatic hydrocarbons	Whole reagent is changed to Pale	The accuracy of reading is not		
(more than C <sub>3</sub> )	brown.	affected.		
Aromatic hydrocarbons	"	"		
Halogenated hydrocarbons	"	"		
Alcohols FIG.1	Similar stain is produced.	Higher readings are given.		
Esters	Pale ringed stain is produced near the bottom of the reagent.	The accuracy of reading is not affected.		



#### TEMPERATURE CORRECTION TABLE

Tube	Corrected Concentration (ppm)						
Readings (ppm)	10 °C (50 °F)	15 ℃ (59 °F)	20 °C (68 °F)	25 °C (77 °F)	30 °C (80 °F)	35 ℃ (95 °F)	40 °C (95 °F)
500			500	380	280	210	160
400		520	400	300	230	170	130
300		400	300	220	170	130	100
200		270	200	140	110	90	70
100	230	140	100	90	70	50	40
50	90	70	50	40	35	20	15
30	50	40	30	25	18	14	10
10	18	13	10	8	6	4	2
5	9	7	5	4	3	2	1