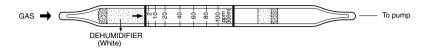
# **CYCLOHEXANONE**



### 1. PERFORMANCE

1) Measuring range 2-100 ppmNumber of pump strokes  $3(300 \text{m} \ell)$ 

2) Sampling time : 4.5 minutes/3 pump strokes

3) Detectable limit  $\therefore$  1 ppm 4) Shelf life  $\therefore$  3 years 5) Operating temperature  $\therefore$  0  $\sim$  40 °C

6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE") 7) Reading : Direct reading from the scale calibrated by 3 pump strokes

8) Colour change : Yellow→Pale blue

## 2. RELATIVE STANDARD DEVIATION

RSD-low: 10% RSD-mid.: 10% RSD-high: 5%

#### 3. CHEMICAL REACTION

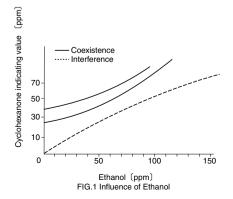
Chromium oxide is reduced.  $C_6H_{10}O + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$ 

## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

#### 5. INTERFERENCE AND CROSS SENSITIVITY

Substance		Interference	Coexistence	
Aliphatic hydrocarbons		Whole stain is changed to brown.	The accuracy of reading is not 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

	Scale Readings (ppm)	True Concentration (ppm)					
		10°C (50° F)	20°C (68° F)	30°C (86°F)	40 °C (104 °F)		
	100	-	100	75	60		
	80	120	80	62	50		
	60	84	60	46	37		
	40	52	40	30	25		
	20	26	20	16	13		
	10	14	10	8	7		
	2	3	2	2	1		