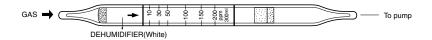
PENTYL ACETATE



1. PERFORMANCE

1) Measuring range : 10-200 ppm Number of pump strokes : $3(300 \text{m} \ell)$

2) Sampling time : 4.5 minutes/3 pump strokes

3) Detectable limit \therefore 4 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 3 pump strokes

8) Colour change : Pale yellow → Pale blue (more than 20 ppm)

→ Dark brown (20 ppm or less)

2. RELATIVE STANDARD DEVIATION

RSD-low: 15 % RSD-mid.: 10 % RSD-high: 10 %

3. CHEMICAL REACTION

Chromium oxide is reduced

 $CH_3CO_2CH_2 (CH_2)_3CH_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence					
Alcohols	Similar or Blue stain is produced.	Higher readings are given.					
Esters	"	"					
Ketones	"	"					
Aliphatic hydrocarbons	"	"					
Aromatic hydrocarbons	The accuracy of readings is not affected.	Whole reagent is changed to Brown.					

TEMPERATURE CORRECTION TABLE

Scale	1	n)		
Readings	10°C	20℃	30℃	40°C
(ppm)	(50°F)	(68° F)	(86° F)	(104° F)
200	240	200	160	120
150	180	150	130	100
100	120	100	80	70
50	60	50	40	30
30	36	30	24	18
10	10	10	8	6