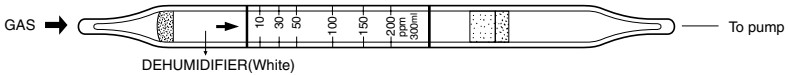
Tube No.
210U

PENTYL ACETATE



1. PERFORMANCE

1) Measuring range : 10-200 ppm
   Number of pump strokes 3(300mℓ)
2) Sampling time : 4.5 minutes/3 pump strokes
3) Detectable limit : 4 ppm
4) Shelf life : 2 years
5) Operating temperature : 10 ~ 40℃
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 Readings (ppm)	True Concentration (ppm)			
	10℃ (50°F)	20℃ (68°F)	30℃ (86°F)	40℃ (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