# n-UNDECANE



#### 1. PERFORMANCE

1) Measuring range 10-140 ppmNumber of pump strokes  $1(100\text{m}\ell)$ 

2) Sampling time : 1.5 minutes/1 pump stroke

3) Detectable limit : -

4) Shelf life : 2 years 5) Operating temperature :  $15 \sim 25 \,^{\circ}$ C

6) Reading . The tube scale is calibrated based on Ethyl acetate at 1 pump stroke and

n-Undecane concentration is determined by using a conversion chart

at 1 pump stroke

7) Colour change : Yellow→Brown

#### 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Chromium oxide is reduced.

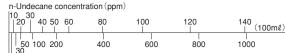
 $CH_{3}\ (CH_{2})_{9}CH_{3}+Cr^{6+}+H_{2}SO_{4} {\longrightarrow} Cr^{3+}$ 

## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols	Similar or brown stain is produced.	Higher readings are given.
Esters	"	"
Ketones	"	"
Aromatic hydrocarbons	"	"
Aliphatic hydrocarbons	Whole reagent is discoloured to Pale brown.	If the maximum end point of stained layer is discernable, the accuracy of readings is not affected.
Halogenated hydrocarbons	"	"



No. 111U tube reading (ppm)