n-NONANE



1. PERFORMANCE

1) Measuring range Number of pump strokes 1 $(100 \text{m} \ell)$ 1/2 $(50 \text{m} \ell)$ 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-Nonane concentration is determined by using a conversion chart

at 1/2 and 1 pump strokes

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.

CH₃ (CH₂)₇CH₃ + Cr⁶⁺ + H₂SO₄ \rightarrow Cr³⁺

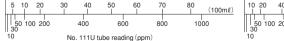
4. CALIBRATION OF THE TUBE

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	"	"





n-Nonane concentration (ppm)

