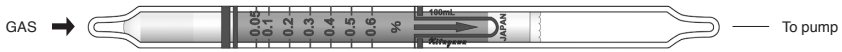
Tube No.
113SA n-HEXANE



1. PERFORMANCE

1) Measuring range	: 0.11-1.32%	0.05-0.6%
Number of pump strokes	1/2(50mL)	1(100mL)
2) Sampling time	: 1 minute / 1 pump stroke	
3) Detectable limit	: —	
4) Shelf life	: 3 years	
5) Operating temperature	: 10～40℃	
6) Temperature compensation	: Necessary(See "TEMPERATURE CORRECTION TABLE")	
7) Reading	: Direct reading from the scale calibrated by 1 pump stroke	
8) Colour change	: Orange→Dark green	

2. RELATIVE STANDARD DEVIATION

RSD-low：10% RSD-mid.：5% RSD-high：5%

3. CHEMICAL REACTION

Chromium oxide is reduced.

$CH_3(CH_2)_4CH_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Aliphatic hydrocarbons (more than C_3)	Similar stain is produced.	—	Higher readings are given.
Acetylene	〃	—	〃
Ethylene	〃	—	〃
Cyclohexane	〃	—	〃
Benzene FIG.1	〃	400	〃
Toluene FIG.2	〃	800	〃
Xylene	〃	2,000	〃
Aromatic hydrocarbons		—	Black stain is produced.
Alcohols		6%	The accuracy of readings is not affected.
Ketones		6%	〃
Esters		6%	〃

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.

Actual concentration = 2.2 × Tmperature corrected value

TEMPERATURE CORRECTION TABLE

Tube Readings (%)	Corrected Concentration (%)				
	10℃ (50°F)	15℃ (59°F)	20℃ (68°F)	30℃ (86°F)	40℃ (104°F)
0.6	0.73	0.65	0.60	0.52	0.48
0.5	0.60	0.55	0.50	0.45	0.42
0.4	0.48	0.44	0.40	0.37	0.35
0.3	0.35	0.32	0.30	0.28	0.27
0.2	0.22	0.21	0.20	0.19	0.18
0.1	0.10	0.10	0.10	0.10	0.10

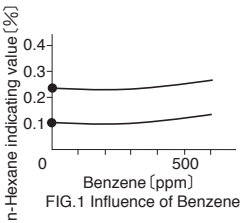


FIG.1 Influence of Benzene

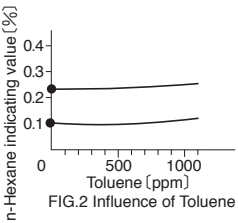


FIG.2 Influence of Toluene