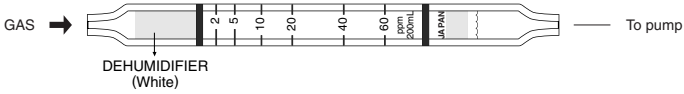
Tube No.
211U©

ISOBUTYL ACRYLATE



1. PERFORMANCE

1) Measuring range : 5-60 ppm
   Number of pump strokes 2(200mℓ)
2) Sampling time : 3 minutes/2 pump strokes
3) Detectable limit : 0.5 ppm
4) Shelf life : 2 years
5) Operating temperature : 0 ~ 40℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Graduations printed on the tube are calibrated by Methyl acrylate at 2 pump strokes and Isobutyl acrylate concentration is determined by using a conversion chart.
8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.

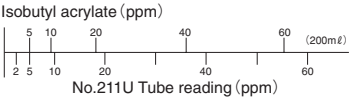
$$CH_2=CHCO_2CH_2CH(CH_3)_2 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols	Similar stain is produced.	Higher readings are given.
Esters	Whole reagent is discolured to Dark brown	〃
Aromatic hydrocarbons	〃	〃
Aliphatic hydrocarbons (more than C_3)	〃	〃
Halogenated hydrocarbons	〃	〃



TEMPERATURE CORRECTION TABLE

Conversion Value (ppm)	Corrected Concentration (ppm)				
	0℃ (32°F)	10℃ (50°F)	20℃ (68°F)	30℃ (86°F)	40℃ (104°F)
60	—	90	60	48	40
40	115	57	40	32	27
20	50	27	20	16	14
10	20	13	10	8	6
5	10	6	5	4	3