

## 1. PERFORMANCE

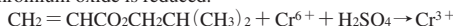
- 1) Measuring range : 5-60 ppm  
Number of pump strokes : 2 (200mℓ)
- 2) Sampling time : 3 minutes/2 pump strokes
- 3) Detectable limit : 0.5 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : 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.



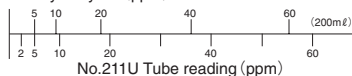
## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols	Similar stain is produced.	Higher readings are given.
Esters	Whole reagent is discolored to Dark brown	∕
Aromatic hydrocarbons	∕	∕
Aliphatic hydrocarbons (more than C <sub>3</sub> )	∕	∕
Halogenated hydrocarbons	∕	∕

Isobutyl acrylate (ppm)



TEMPERATURE CORRECTION TABLE

Conversion Value (ppm)	Corrected Concentration (ppm)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (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