MITC (METHYL ISOTHIOCYANATE)



1. PERFORMANCE

1) Measuring range : 10-600 ppm 25-1,500 ppm Number of pump strokes : $1(100m\,\ell)$ 1/2 $(50m\,\ell)$

2) Sampling time : 1.5 minutes/1 pump stroke, 1 minute/1/2 pump strokes

3) Detectable limit $: 3 \text{ ppm}(100\text{m}\ell)$ 4) Shelf life : 1 year5) Operating temperature $: 0 \sim 40 \text{ C}$

6) Reading : Direct reading from the scale calibrated by 1 pump stroke

7) Colour change : Pale yellow→Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Bichromate is reduced. $CH_3NCS + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	%	Interference
Carbon dioxide	50	The accuracy of readings is not affected.