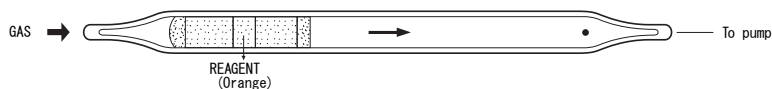


# ORGANIC GAS CHECKER



## 1. PERFORMANCE

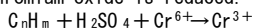
- 1) Measuring range : Refer to under-mentioned table  
Number of pump strokes : 1(100mL)
- 2) Sampling time : 20 sec./1 pump stroke
- 3) Shelf life : 3 years
- 4) Operating temperature : 0~40°C
- 5) Reading : Qualitatively
- 6) Colour change : Orange→Black or Dark green

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Chromium oxide is reduced.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Hydrocarbons except Methane and Ethane, Alcohols, Esters, Ketones, Aromatic hydrocarbons and Hydrogen sulphide can be detected qualitatively.

## 6. DETECTABLE GAS CONCENTRATION TABLE

A : U. S. A  
B : U. K.  
J : JAPAN

NO.	Classification	Detective Gas	Detectable Limit of Gas Concentration (ppm)	TLV (ppm)
1	Alcohol	Methanol	20	200(A, B, J)
		I. P. A.	50	400(A, B, J)
		Butanol	50	50(A, B, J)
2	Ester	Ethyl Acetate	400	400(A, B, J)
		Butyl Acetate	200	150(A, B), 200(J)
3	Ketone	Acetone	600	750(A), 1,000(B), 200(J)
		M. E. K.	200	200(A, B, J)
		M. I. B. K	100	50(A, J), 100(B)
4	Aromatic	Benzene	40	10(A, B, J)
		Toluene	5	100(A, B, J)
		Xylene	5	100(A, B, J)
5	Aliphatic	Propane	1,500	—
		Butane	100	800(A), 600(B)
		Pentane	10	600(A, B)
		Hexane	10	50(A), 100(B), 40(J)
		Heptane	5	400(A, B)
		Octane	5	300(A, B)
		Acetylene	2,500	—
		Ethylene	100	—
		Propylene	10	—
6	Chlorination Hydrocarbon	Trichloroethylene	25	50(A, J), 100(B)
		Tetrachloroethylene	200	50(A, J), 100(B)
7	Mixed solvent	Gasoline (motor fuel)	10	300(A), 100(J)
		Kerosene	8 (mg/m <sup>3</sup> )	—
		Mineral Turpentine	8 (mg/m <sup>3</sup> )	—
8	Others	Ethyl acrylate	10	5(A), 25(B)
		Ether (ethyl)	10	400(A, B)
		Ethylene oxide	50	1(A), 5(B)