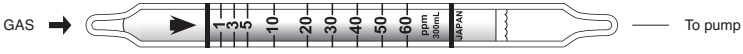
Tube No.
248U

ETBE (ETHYL-tert-BUTYL ETHER)



1. PERFORMANCE

1) Measuring range : 1-60 ppm
   Number of pump strokes 3 (300mℓ)
2) Sampling time : 4.5 minutes/3 pump strokes
3) Detectable limit : 0.5 ppm
4) Shelf life : 1 year
5) Operating temperature : 0 ~ 40 ℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 3 pump strokes
8) Colour change : Pale yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.

$$C_2H_5OC(CH_3)_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Ethyl alcohol	Similar stain is produced.	Higher readings are given.

TEMPERATURE CORRECTION TABLE

Temperature ; To correct for temperature, multiply the tube reading by the following factors.

Temperature (℃)	0	1	2	3	4	5	6	7	8	9
Correction Factor	1.86	1.81	1.75	1.70	1.65	1.60	1.55	1.50	1.46	1.41
Temperature (℃)	10	11	12	13	14	15	16	17	18	19
Correction Factor	1.37	1.33	1.29	1.25	1.21	1.17	1.13	1.10	1.06	1.03
Temperature (℃)	20	21	22	23	24	25	26	27	28	29
Correction Factor	1.00	0.97	0.95	0.92	0.90	0.88	0.86	0.84	0.82	0.81
Temperature (℃)	30	31	32	33	34	35	36	37	38	39
Correction Factor	0.79	0.78	0.77	0.76	0.76	0.75	0.75	0.74	0.74	0.73
Temperature (℃)	40									
Correction Factor	0.73									