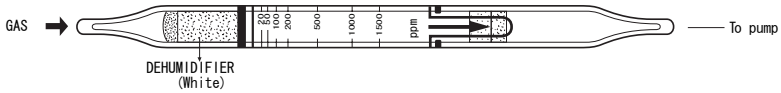
Tube No.
139U

METHYL PROPYL KETONE



1. PERFORMANCE

1) Measuring range : 20-1,500 ppm
   Number of pump strokes 1(100mL)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : -
4) Shelf life : 2 years
5) Operating temperature : 10～40℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Colour change : Yellow→Pale blue (The top of discoloured layer is Brown.)

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.

$CH_3CO(CH_2)_2CH_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohol	Similar or Brown stain is produced.	Higher readings are given.
Esters	〃	〃
Ketones	〃	〃
Aromatic hydrocarbons	〃	〃
Halogenated hydrocarbons FIG.2		Whole reagent is changed to Brown, but if the top of Pale blue stain is clear, the reading can be obtained.
Paraffin hydrocarbons FIG.1		〃

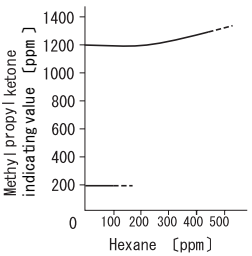


FIG.1 Influence of Hexane

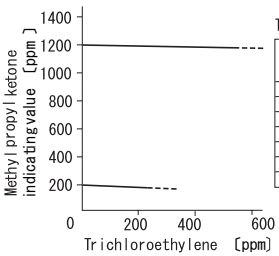


FIG.2 Influence of Trichloroethylene

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)						
	10℃ (50°F)	15℃ (59°F)	20℃ (68°F)	25℃ (77°F)	30℃ (86°F)	35℃ (95°F)	40℃ (104°F)
1500	2050	1750	1500	1260	1100	940	820
1000	1430	1200	1000	850	720	620	530
500	750	620	500	430	360	320	280
200	300	250	200	170	140	120	110
100	160	120	100	90	70	60	50
50	80	60	50	40	30	30	20
20	30	30	20	20	10	10	10