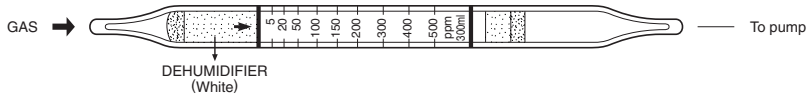
Tube No.
190Uⓒⓒ

ETHYL CELLOSOLVE ACETATE



1. PERFORMANCE

1) Measuring range : 5-150 ppm
   Number of pump strokes 3 (300mℓ)
2) Sampling time : 4.5 minutes/3 pump strokes
3) Detectable limit : 2 ppm
4) Shelf life : 2 years
5) Operating temperature : 10 ~ 35 ℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Graduations printed on the tube are calibrated by Ethyl cellosolve at 3 pump strokes and Ethyl cellosolve acetate concentration is determined by using a conversion chart.
8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.

$CH_3CO_2CH_2CH_2OC_2H_5 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols	Similar stain is produced.	Higher readings are given.
Ethers	〃	〃
Aliphatic hydrocarbons (more than C_3)	Whole reagent is changed to Pale Brown.	〃
Aromatic hydrocarbons	〃	〃
Esters	〃	〃
Ketones	〃	〃
Halogenated hydrocarbons FIG.1	〃	〃

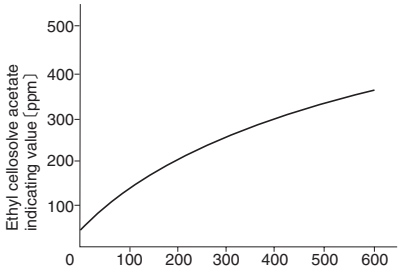
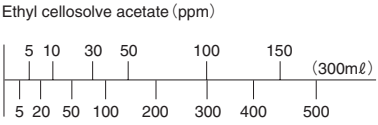


FIG.1 Influence of 1,1,1-Trichloroethane



TEMPERATURE CORRECTION TABLE

Conversion Vaiue (ppm)	Corrected Concentration (ppm)					
	10 ℃ (50 ℉)	15 ℃ (59 ℉)	20 ℃ (68 ℉)	25 ℃ (77 ℉)	30 ℃ (80 ℉)	35 ℃ (95 ℉)
150	230	190	150	120	90	75
100	160	130	100	80	70	60
50	80	60	50	40	35	30
20	25	23	20	18	16	14
10	10	10	10	10	8	7
5	5	5	5	5	5	5