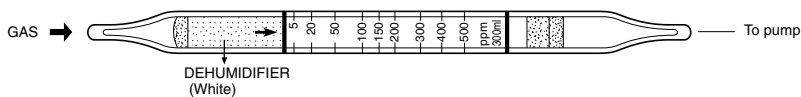


DIACETONE ALCOHOL



1. PERFORMANCE

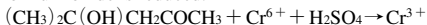
- 1) Measuring range : 10-250 ppm
Number of pump strokes : 3 (300ml)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 1 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Graduations printed on the tube are calibrated by Ethyl cellosolve at 3 pump strokes and Diacetone alcohol concentration is determined by using a conversion chart.
- 8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols FIG.1	Similar stain is produced.	Higher readings are given.
Halogenated hydrocarbons	∕	
Aliphatic hydrocarbons	Whole reagent is discoloured to Pale brown.	If the top of Pale blue stain is clear, the accuracy of readings is not affected.
Aromatic hydrocarbons	∕	
Esters	∕	

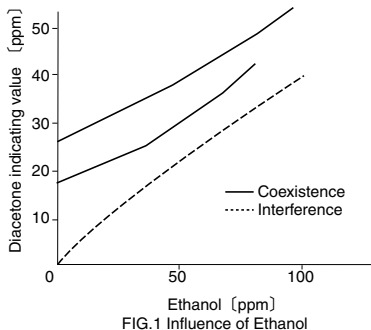


FIG.1 Influence of Ethanol

TEMPERATURE CORRECTION TABLE

Conver. value (ppm)	Corrected Concentration (ppm)							
	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	25 °C (77 °F)	30 °C (86 °F)	35 °C (95 °F)	40 °C (104 °F)	
250	—	380	250	170	130	90	70	
200	440	300	200	140	100	80	60	
150	330	210	150	110	80	60	50	
100	200	130	100	80	60	40	30	
50	80	60	50	40	30	20	16	
30	50	40	30	23	18	12	8	
10	16	14	10	8	6	4	3	

