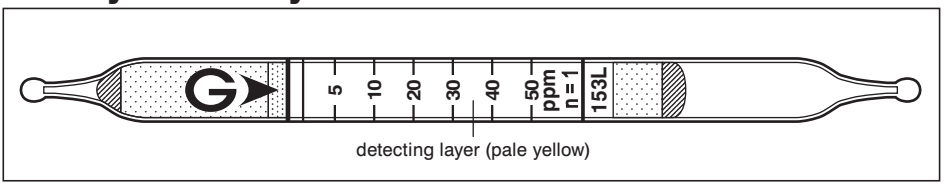
Methyl Isobutyl Ketone $(CH_3)_2CHCH_2COCH_3$ No.153L



Performance The minimum scale value (2.5ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	(2.5) to 50 ppm	50 to 130 ppm
Number of pump strokes	1 (100 ml)	1/2 (50 ml)
Correction factor	1	2.6
Sampling time	2 min	1 min

Detecting limit : 1.5 ppm (1 pump stroke)
Colour change : Pale yellow → Pale blue
Corrections for temperature & humidity : Temperature correction is necessary.
Relative standard deviation : 10 %(for 2.5 to 10 ppm)
5 %(for 10 to 50 ppm)
Shelf life : 1 year

Reaction principle

$(CH_3)_2CHCH_2COCH_3 + Cr^{6+} + H_3PO_4 \rightarrow Cr^{3+}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acrolein	≦ 5 ppm	No	Pale blue (≧ 20 ppm)
Acetone		No	No
Acetic acid		No	No
Ethyl acetate	≧ 5 ppm	+	Pale blue
Diethyl ether		+	Pale blue
Toluene	≧ 5 ppm	+	White
Halogenated hydrocarbons		No	No
Hexane	≧ 15 ppm	+	White (≧ 15 ppm)
Benzene		No	No
Methanol	≧ 5 ppm	+	Pale blue (≧ 10 ppm)
Methyl ethyl ketone	≧ 5 ppm	+	White (≧ 5 ppm)

Calibration gas generation

Diffusion tube method