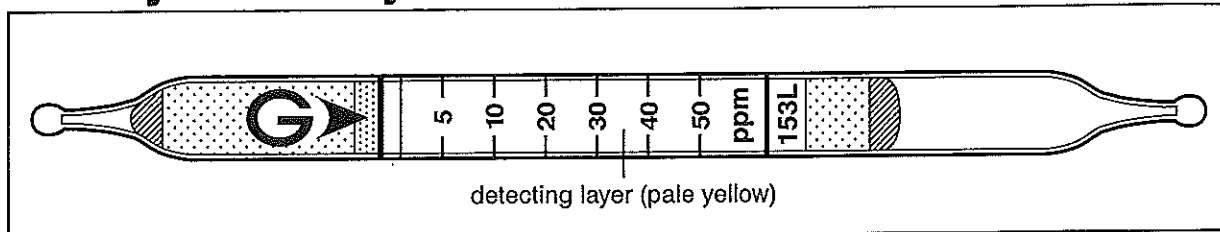


Methyl Isobutyl Ketone $(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_3$ No.153L

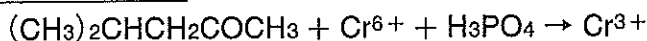


Performance

Measuring range	2.5 to 50 ppm	50 to 130 ppm
Number of pump strokes	1	1/2
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



Possible coexisting substances and their interferences (NOTE : Page 2-5)

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

TLV-TWA : 20 ppm

TLV-STEL : 75 ppm

Explosive range : 1.2 to 8 %