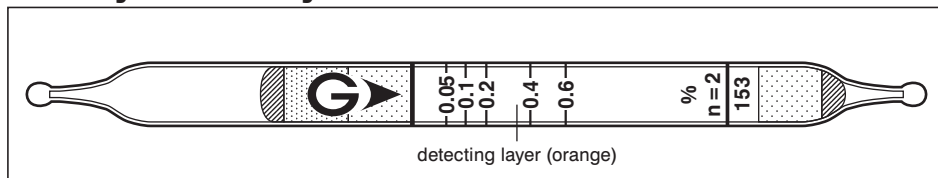


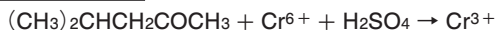
Methyl Isobutyl Ketone $(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_3$ No.153



Performance

Measuring range	0.05 to 0.6 %
Number of pump strokes	2 (200 ml)
Correction factor	1
Sampling time	1.5 min
Detecting limit :	0.005 % (2 pump strokes)
Colour change :	Orange → Greenish brown
Corrections for temperature & humidity :	Temperature correction is necessary.
Relative standard deviation :	10 % (for 0.05 to 0.6 %)
Shelf life :	3 years

Reaction principle



Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Propane	$\geq 0.2 \%$	Cannot use	Pale brown (whole layer) ($\geq 0.2 \%$)
Alcohols, Esters, Ketones		+	Greenish brown
Toluene	$\geq 25 \text{ ppm}$	} Two layers (Greenish brown & Pale brown)	Pale brown ($\geq 15 \text{ ppm}$)
Hydrogen sulphide	$\geq 100 \text{ ppm}$		Greenish brown ($\geq 25 \text{ ppm}$)
Sulphur dioxide	$\geq 100 \text{ ppm}$		Brown ($\geq 50 \text{ ppm}$)

Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Styrene	by scale	2	0.15 to 2.3 %

Calibration gas generation

Static gas dilution method