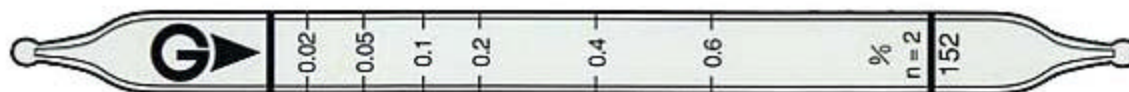


Methyl ethyl ketoneCH₃COC₂Humidity
Corrections₅**NO.152****Performance**

Measuring Range	0.02 to 0.6%
Number of Pump Strokes	2
Correction Factor	1
Sampling Time	2 minutes per pump stroke
Detecting Limit	0.002% (n=2)
Color Change	Orange → Dark green
Reaction Principle	Methyl ethyl ketone reacts with potassium dichromate to form chromic sulfate, which produces a green color. $\text{CH}_3\text{COC}_2\text{Humidity Correction}_5 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 + \text{H}_2\text{O} \longrightarrow \text{Cr}^{3+}$
Coefficient of Variation	10% (for 0.02 to 0.2 %), 5% (for 0.2 to 0.6 %)
Shelf Life	3 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Sulfur dioxide	500 ppm	Plus error	Produce green stain
Hydrogen sulfide	500 ppm	Plus error	Produce dark green
Alcohols, Esters, Ketones	-	Plus error	Produce dark green
Propane	2000 ppm	Yes	Produce dark green for whole layer 2000 ppm(≥)
Aromatic HCs.	500 ppm	Plus error	Produce dark green

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
200ppm	300ppm	1.7 to 11.4%

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