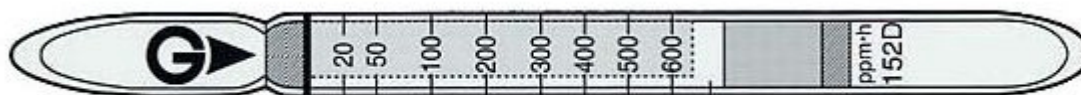


Methyl ethyl ketoneCH₃COC₂Humidity
Corrections**NO.152D****Performance**

Measuring Range	2 to 600 ppm
Sampling Hours	1 to 10 hours
Detecting Limit	2 ppm (10 hours)
Color Change	Yellow → Reddish Brown
Reaction Principle	Methyl Ethyl Ketone reacts with hydroxylamine phosphate to liberate phosphorous acid, which discolors pH indicator to reddish brown. $3\text{CH}_3\text{COC}_2\text{Humidity Correction}_5 + (\text{NH}_2\text{OH})_3\text{Humidity Correction}_3\text{PO}_4 \longrightarrow \text{H}_3\text{PO}_4$ $\text{Humidity Correction}_3\text{PO}_4 + \text{Base} \longrightarrow \text{Phosphate}$
Coefficient of Variation	10% (for 20 to 600 ppm-hr)
Shelf Life	2 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes in the refrigerator to keep at 10°C (50°F) or below.	

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Aldehydes	-	Plus error	Discolors reddish brown
Ketones	-	Plus error	Discolors reddish brown
Acid gases	-	Plus error	Discolors reddish brown (Unclear demarcation)

Other substance measurable with this detector tube

Name of Substance	Correction Factor	Measuring Range
Acetone	0.7	1.4 to 420 ppm
Methyl isobutyl ketone	2.0	4 to 1200 ppm
Acetaldehyde	0.6	1.2 to 360 ppm

Calibration gas generation Diffusion tube method

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



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