

Methylcyclohexanone

C₇Humidity
Correction₁₂O

NO.155



Performance

Measuring Range	2 to 50 ppm	50 to 100 ppm
Number of Pump Strokes	3	2
Correction Factor	1	2
Sampling Time	3 minutes per pump stroke	
Detecting Limit	0.2 ppm (n=3)	
Color Change	Pale Yellow → Yellow	
Reaction Principle	Methyl cyclohexanone reacts with 2,4-dinitrophenylhydrazineto form dinitrophenylhydrazone to produce yellow in color. $\text{C}_7\text{Humidity Correction}_{12}\text{O} + \text{C}_6\text{Humidity Correction}_3(\text{NO}_2)_2\text{NHNH}_2 \longrightarrow (\text{CH}_3)_2\text{C}:\text{NNHC}_6\text{Humidity Correction}_3(\text{NO}_2)_2$	
Coefficient of Variation	15% (for 2 to 10 ppm), 10% (for 10 to 50 ppm)	
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
Ketones	-	Plus error	Discolors to yellow

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
50ppm	75ppm	1.15% or higher

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Policy Statement and Legal Notices

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