

EthanolC₂Humidity
Correction₅OH**NO.112****Performance**

Measuring Range	0.01 to 0.05%	0.05 to 2.5%	2.5 to 7.5%
Number of Pump Strokes	2	1	1/2
Correction Factor	0.2	1	3
Sampling Time	3 minutes per pump stroke		
Detecting Limit	0.004% (n=2)		
Color Change	Pink → Pale blue		
Reaction Principle	Ethyl alcohol reduces chromic acid to discolor pale blue stain. $C_2\text{Humidity Correction}_5\text{OH} + \text{Cr}^6 + \text{H}_2\text{SO}_4 \longrightarrow \text{Cr}^{3\text{Twin Tubes}}$		
Coefficient of Variation	15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %)		
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
Carbon monoxide	-	No effect	No discoloration
Carbon dioxide	-	No effect	No discoloration
Alcohols	-	Plus error	Produce similar stain

Calibration gas generation Static gas dilution method

TLV -TWA	TLV -STEL	Explosive range
1000ppm	-	3.3 to 19%

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Policy Statement and Legal Notices

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