

Gasoline C_n Humidity
Correction_m**NO.101L****Performance**

Measuring Range	30 to 1000 ppm	1000 to 2000 ppm
Number of Pump Strokes	2	1
Correction Factor	1	2
Sampling Time	2 minutes per pump stroke	
Detecting Limit	5 ppm (n=2)	
Color Change	Brownish yellow → Dark green	
Reaction Principle	Propylene reduces potassium dichromate to form chromic sulfate, which is dark green in color $C_n \text{ Humidity Correction}_m + K_2Cr_2O_7 + H_2SO_4 \longrightarrow Cr_2(SO_4)_3$	
Coefficient of Variation	10% (for 30 to 300 ppm), 5% (for 300 to 1000 ppm)	
Shelf Life	3 Years	
Corrections for temperature & humidity	Unnecessary	
Store the tubes at cool and dark place.		

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Hydrogen sulfide	-	Plus error	Dark brown
Acetylene	-	Plus error	Dark brown
Aromatic HCs	-	Plus error	Dark green
Esters, Ethers, Alcohols	-	Plus error	Dark green
Sulfur dioxide	-	Plus error	Dark green
Organic solvents ($\geq C_3$)	-	Plus error	Dark green

Other substance measurable with this detector tube

Substance	Correction	No. of Pump Strokes	Measuring Range
Allyl chloride	Factor: 34	1/2	0.1 to 3.4%
Heptane	Factor: 1.0	1 or 2	30 to 2000 ppm
Isobutene	Factor: 22	1	0.07 to 2.2%

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
300ppm	500ppm	1.4 to 7.6%



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Nextteq LLC – 8406 Benjamin Rd., Suite J, Tampa FL 33634, USA

Phone (toll free): 877-312-2333 Fax (toll free) 877-312-2444

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