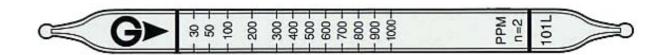
Gasoline CnHm No.101L



## **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)			
Colour Change	Orange → Dark green			
Reaction Principle	Propylene reduces potassium dichromate to form chromic sulfate, which is dark green in colour C <sub>n</sub> H <sub>m</sub> + Cr <sup>6</sup> + H <sub>2</sub> SO <sub>4</sub> → Cr <sup>3+</sup>			
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

Substance	Concentration	Interference	Change colour by itself
Hydrogen sulphide	-	Plus error	Dark brown
Acetylene	-	Plus error	Dark brown
Aromatic hydrocarbons	-	Plus error	Dark green
Esters, Ethers, Alcohols	-	Plus error	Dark green
Sulphur dioxide	-	Plus error	Dark green
Organic solvents ( <u>≥</u> C3)	-	Plus error	Dark green

## Other substance measurable with this detector tube

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