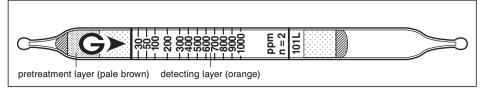
Gasoline CnHm



Performance

Measuring range	30 to 1000 ppm	1000 to 2000 ppm
Number of pump strokes	2(200 ml)	1 (100 ml)
Correction factor	1	2
Sampling time	4 min	2 min

 $\begin{array}{lll} \mbox{Detecting limit:} & \mbox{5 ppm } (\mbox{2 pump strokes}) \\ \mbox{Colour change:} & \mbox{Orange} \rightarrow \mbox{Dark green} \end{array}$

Corrections for temperature & humidity : Unnecessary

Relative standard deviation: 10 % (for 30 to 300 ppm), 5 % (for 300 to 1000 ppm)

Shelf life: 3 years

Reaction principle

 $CnHm + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Alcohols		+	
Aromatic hydrocarbons		+	
Esters, Ethers		+	Dark green
Organic solvents (≥C3)		+	
Sulphur dioxide		+	J
Acetylene		+	Dark brown
Hydrogen sulphide		+	Dark brown

Water vapour is trapped in the pretreatment (pale brown) layer.

Other substances 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: 2	1	1000 to 2000 ppm
	Factor: 1	2	30 to 1000 ppm
Isobutene	Factor: 22	1	0.07 to 2.2 %

Calibration gas generation

Static gas dilution method