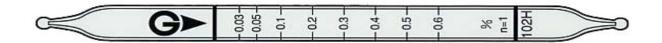
Hexane CH3(CH2)4CH3 No.102H



Performance

Measuring Range	0.015 to 0.03%	0.03 to 0.6%	0.6 to 1.2%	
Number of Pump Strokes	2	1	1/2	
Correction Factor	1/2	1	2	
Sampling Time	1 minute per pump stroke			
Detecting Limit	0.003% (n = 2)			
Colour Change	Orange → Dark green			
Reaction Principle	Gasoline reduces potassium dichromate to form chromic sulphate, which is dark green in colour CH ₃ (CH ₂) ₄ CH ₃ + Cr ⁶⁺ + H ₂ SO ₄ → Cr ³⁺			
Coefficient of Variation	10% (for 0.03 to 0.2 %), 5% (for 0.2 to 0.6 %)			
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
Acetylene	<u>≥</u> 3%	-	Produces dark green to whole layer
Propane	<u>≥</u> 0.2%	-	Produces dark green to whole layer
Aromatic hydrocarbons	<u>≥</u> 500 ppm	Plus error	Produces dark green stain
Alcohols, Esters, Ethers	-	Plus error	Produces dark green stain
Halogenated hydrocarbons	<u>≥</u> 5000 ppm	Plus error	Produces dark green stain
Hydrogen sulphide	<u>≥</u> 500 ppm	Plus error	Produces dark green stain
Sulphur dioxide	<u>≥</u> 500 ppm	Plus error	Produce green stain

Other substance measurable with this detector tube

Substance	Correction	No. of Pump Strokes	Measuring Range
Cyclohexane	Factor: 1.0	1/2, 1 or 2	0.015 to 1.2%
Methylchyclohexane	Factor: 1.4	1	0.04 to 0.84%

Calibration gas generation Static gas dilution method

TLV to TWA	TLV to STEL	Explosive range
50ppm	-	1.1 to 7.5%