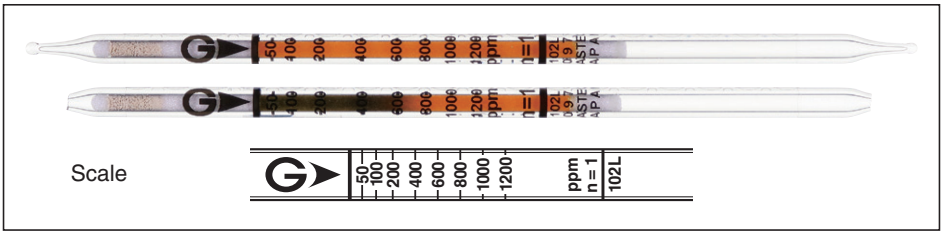
Hexane $CH_3(CH_2)_4CH_3$ No.102L



Performance

Measuring range	3.5 to 9 ppm	9 to 25 ppm	25 to 50 ppm	50 to 1200 ppm
Number of pump strokes	8 (800mL)	4 (400mL)	2 (200mL)	1 (100mL)
Correction factor	0.07	0.18	0.5	1
Sampling time	12 min	6 min	3 min	1.5 min

Detecting limit : 1 ppm (5 pump strokes)
Colour change : Yellowish brown → Greenish brown
Operating conditions : Temperature 0 to 40 ℃ (32 to 104 ℉) correction not used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 10 % (for 50 to 400 ppm), 5 % (for 400 to 1200 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 36 months

Reaction principle

$CH_3(CH_2)_4CH_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acetylene		+	Blackish brown
Aromatic hydrocarbons		+	Greenish brown
Alcohols, Esters, Ketones		+	
Organic solvents (≧ C_3)		+	
Hydrogen sulphide		+	Blackish brown
Sulphur dioxide		+	Greenish brown

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Acrylonitrile	Factor : 12	1	600 to 14400 ppm
tert-Butyl alcohol	Factor : 10	2	500 to 12000 ppm
Chlorocyclohexane	Factor : 1	2	50 to 1200 ppm
Cyclohexane	Factor : 1.2	1	60 to 1440 ppm
Diisobutyl ketone	by scale	2	0.2 to 1.0 %
Methylcyclohexane	Factor : 0.3	4	15 to 170 ppm

Calibration gas generation

High pressure gas cylinder method

(Last updated: Jan. 2026)