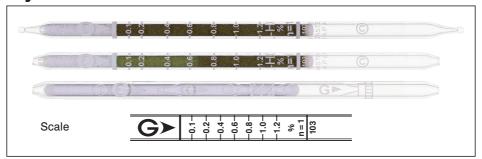
Hydrocarbons (Lower Class) C2 to C7



When used, these tubes are to be connected. See page 2-3.

Performance

This detector tube is calibrated with Propane.

Measuring range	0.05 to 0.1 %	0.1 to 1.2 %	1.2 to 2.4 %
Number of pump strokes	2(200 mL)	1 (100 mL)	1/2(50 mL)
Correction factor	1/2	1	2
Sampling time	4 min	2 min	1 min

0.01 % (2 pump strokes) Detecting limit:

Colour change : Yellowish brown → Greenish brown

Operating conditions: Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 0 to 90 % correction not used

10 % (for 0.1 to 1.2 %) Relative standard deviation:

Tube quantity and number of tests per box : 10 tubes for 9 tests

30 months

Shelf life:

Reaction principle

Hydrocarbon (C₂ to C₇) + Cr^{6+} + $H_2S_2O_7 \rightarrow Cr^{3+}$ Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Organic solvents		+	Greenish brown
Carbon monoxide		No	No
Ethane, Methane		No	No

Substances measurable with this detector tube

Substance	Correction factor	n	Measuring range (%)
Acetylene	3	1/2	1.8 to 3.6
	1.5	1	0.15 to 1.8
	0.75	2	0.075 to 0.15
Isobutane, Butane, Heptane	1.4	1/2	0.84 to 1.68
	0.7	1	0.07 to 0.84
	0.35	2	0.035 to 0.07
Isopentane	1.8	1/2	1.08 to 2.16
	0.9	1	0.09 to 1.08
	0.45	2	0.045 to 0.09
Ethylene	14	1/2	8.4 to 16.8
	7	1	0.7 to 8.4
	3.5	2	0.35 to 0.7
Propane	2	1/2	1.2 to 2.4
	1	1	0.1 to 1.2
	0.5	2	0.05 to 0.1
Hexane	1	1/2	0.6 to 1.2
	0.5	1	0.05 to 0.6
	0.25	2	0.025 to 0.05
Pentane	1.5	1/2	0.9 to 1.8
	0.75	1	0.075 to 0.9
	0.375	2	0.0375 to 0.075

Calibration gas generation

High pressure gas cylinder method

Special note

When measuring, the SO₃ filter tube (white) should be connected to the back of the detector tube. SO3 filter tube can be reused up to nine times. Nine detector tubes and one SO3 filter tube are contained in one box.