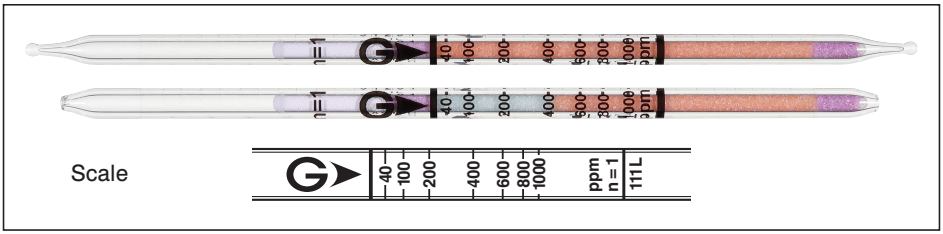
Methanol CH_3OH No.111L



Performance

Measuring range	20 to 40 ppm	40 to 1000 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)
Correction factor	1/2	1
Sampling time	4 min	2 min

Detecting limit : 15 ppm (2 pump strokes)
Colour change : Pale vermilion → Pale blue
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used
Relative humidity 20 to 90 % correction not used
Relative standard deviation : 10 % (for 40 to 200 ppm), 5 % (for 200 to 1000 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 36 months

Reaction principle

$CH_3OH + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Alcohols		+	Pale blue
Acetone	≧ 1000 ppm	+	No (≦ 1000 ppm)
Ethyl acetate	≦ 500 ppm	No	No (≦ 500 ppm)
Toluene	≦ 300 ppm	No	No (≦ 300 ppm)
Benzene	≦ 70 ppm	No	No

Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Ethylene chlorohydrin	by scale	3	80 to 200 ppm

Calibration gas generation

Diffusion tube method