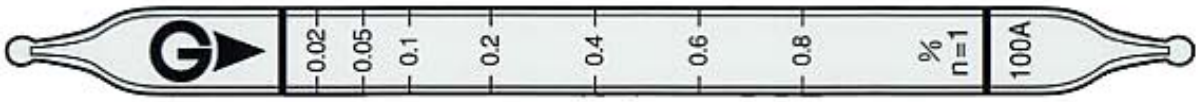
Liquid petroleum gas(LPG) Hydrocarbons $C_3 \cdot C_4$ NO.100A



Performance

Measuring Range	0.02 to 0.8%
Number of Pump Strokes	1
Correction Factor	1
Sampling Time	2 minutes per pump stroke
Detecting Limit	0.002% (n=1)
Colour Change	Orange ⟶ Blackish Green
Reaction Principle	Propylene reduces potassium dichromate to form chromic sulphate, which is blackish green in colour LPG + Cr^{6+} + H_2SO_4 ⟶ Cr^{3+}
Coefficient of Variation	10% (for 0.02 to 0.2 %), 5% (for 0.2 to 0.8 %)
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
Ketones	≧2000ppm	Plus error	Produce blackish green stain.
Esters	≧2000ppm	Plus error	Produce blackish green stain.
Hydro carbons(≧3)	-	Plus error	Produce blackish green stain.

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Propylene	1	1	0.02 to 0.8 %
Xylene	by scale	2	0.1 to 1.2 %
Olefines	17	1	0.34 to 13.6%

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
1000ppm	-	1.6 to 10%