

Liquid petroleum gas(LPG)

Hydrocarbons C<sub>3</sub>-C<sub>4</sub>

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)
Color Change	Orange → Blackish Green
Reaction Principle	Propylene reduces potassium dichromate to form chromic sulfate, which is blackishgreen in color $C_3H_6 + K_2Cr_2O_7 + H_2SO_4 \longrightarrow Cr_2(SO_4)_3$
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
<b>Store the tubes at cool and dark place.</b>	

**Possible coexisting substances and their interferences** (NOTE)

Substance	Concentration	Interference	Change color by itself
Ketones	0.2%	Plus error	Produce similar stain by themselves.
Esters	0.2%	Plus error	Produce similar stain by themselves.
Hydro carbons(≥ 3)	-	Plus error	Produce similar stain by themselves.

**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 %

**Calibration gas generation** Static gas dilution method

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TLV-TWA	TLV-STEL	Explosive range
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