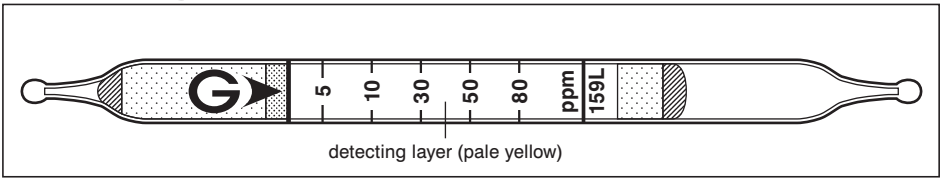
Tetrahydrofuran C_4H_8O No.159L



Performance

Measuring range	5 to 80 ppm	80 to 232 ppm
Number of pump strokes	1 (100 ml)	1/2 (50 ml)
Correction factor	1	2.9
Sampling time	2 min	1 min

Detecting limit : 1.4 ppm (1 pump stroke)
Colour change : Pale yellow → Pale blue
Corrections for temperature & humidity : Temperature correction is necessary.
Relative standard deviation : 10 % (for 5 to 10 ppm), 5 % (for 10 to 80 ppm)
Shelf life : 1 year (in the refrigerator)

Reaction principle

$C_4H_8O + Cr^{6+} + H_3PO_4 \rightarrow Cr^{3+}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acrolein	≧ 30 ppm	+	Pink (≧ 30 ppm)
Acetone	≦ 200 ppm	No	Pink (≧ 200 ppm)
Acetic acid	≦ 200 ppm	No	No (≦ 400 ppm)
Ethyl acetate	≧ 1 ppm	+	Pink (≧ 2 ppm)
Diethyl ether	≧ 1 ppm	+	Pale blue
Trichloroethylene	≦ 100 ppm	No	Pink (≧ 100 ppm)
Toluene	≧ 1 ppm	+	White (≧ 4 ppm)
n-Hexane	≧ 10 ppm	Can not use due to Unclear demarcation	Pink (≧ 10 ppm)
Benzen	≦ 100 ppm	No	White (≧ 500 ppm)
Methanol	≧ 2 ppm	+	Pink (≧ 5 ppm) Pale blue (≧ 9 ppm)
Methyl ethyl ketone	≧ 2 ppm	+	Pink (≧ 3 ppm)

Calibration gas generation

Diffusion tube method