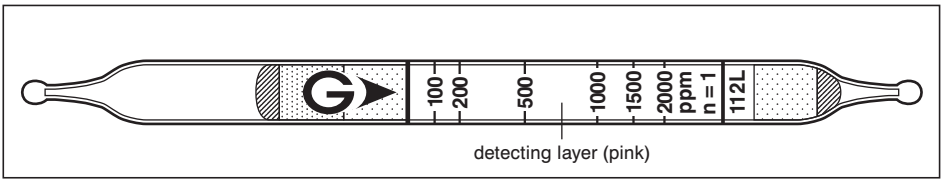
Ethanol C_2H_5OH No.112L



Performance

Measuring range	50 to 100 ppm	100 to 2000 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
Corrections for temperature & humidity : Temperature correction is necessary.
Relative standard deviation : 10 %(for 100 to 500 ppm), 5 %(for 500 to 2000 ppm)
Shelf life : 3 years

Reaction principle

$C_2H_5OH + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

Possible coexisting substances and their interferences

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

Calibration gas generation

Diffusion tube method