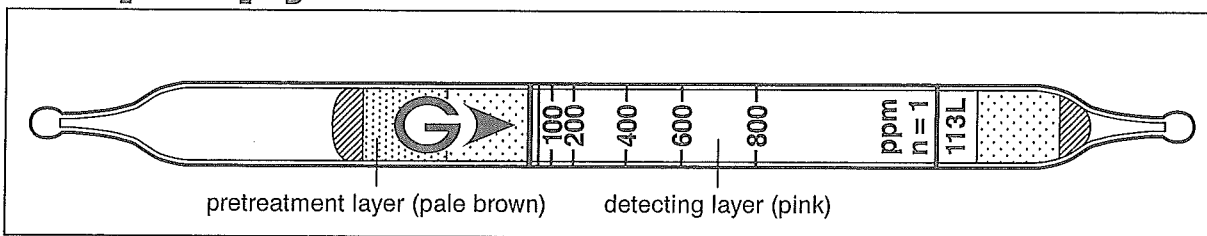


Isopropyl Alcohol $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3$ or i- $\text{C}_3\text{H}_7\text{OH}$ No. 113L



Performance

Measuring range	25 to 50 ppm	(50) to 800 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)
Correction factor	1/2	1
Sampling time	6 min	3 min

Detecting limit : 5 ppm (2 pump strokes)
 Colour change : Pink → Pale blue
 Corrections for temperature & humidity : Temperature correction is necessary.
 Relative standard deviation : 15 % (for 50 to 200 ppm), 10 % (for 200 to 800 ppm)
 Shelf life : 3 years

Reaction principle



Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Alcohols		+	Pale blue

Water vapour is trapped in the pretreatment (pale brown) layer.

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Divinyl methoxysilane	Factor : 0.05	2	2.5 to 40 ppm
Ethylene glycol MBE	by scale	2	30 to 1000 ppm
Ethylene glycol MEE	Factor : 1.25	2	62.5 to 1000 ppm
Ethylene glycol MEEAc	Factor : 0.12	3	6 to 96 ppm
Ethylene glycol MME	by scale	2	15 to 900 ppm
Ethylene glycol MMEAc	by scale	2	20 to 1300 ppm
1-Methoxy-2-propanol	Factor : 1.0	4	50 to 800 ppm
Propyl alcohol	Factor : 1.3	1	65 to 1040 ppm
Vinyl trimethoxysilane	Factor : 0.05	2	2.5 to 40 ppm

MBE : monobutyl ether, MEE : monoethyl ether, MEEAc : monoethyl ether acetate
 MME : monomethyl ether, MMEAc : monomethyl ether acetate

Calibration gas generation

Diffusion tube method