


Performance

Measuring Range	1 to 2 ppm	2 to 50 ppm	50 to 100 ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	1/2	1	2
Sampling Time	1 minute per pump stroke		
Detecting Limit	0.2 ppm (n=2)		
Colour Change	Pink → Yellow		
Reaction Principle	Acetic acid neutralizes sodium hydroxide to discolour indicator to yellow.		
Coefficient of Variation	10% (for 2 to 10ppm), 5% (for 10 to 50 ppm)		
Shelf Life	3 Years		
Corrections for temperature & humidity	Humidity correction is necessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Hydrogen chloride, Hydrogen cyanide, Nitric acid	≥3 times or higher	Plus error	Produce yellow stain
Chlorine, Sulphur dioxide, Nitrogen dioxide	≥1/2 times or higher	Plus error	Produce yellow stain

Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Acetic anhydride	Factor: 0.3	1	0.6 to 15 ppm
Acrylic acid	Factor: 1.0	1	2 to 50 ppm
Formic acid	Factor: 2.6	1	5.2 to 130 ppm
Isovalenic acid	Factor: 1.0	1	2 to 50 ppm
Maleic anhydride	Factor: 0.4	1	0.8 to 20 ppm
Methacrylic acid	Factor: 0.9	1	1.8 to 45 ppm
Propionic acid	Factor: 1.5	1	3 to 75 ppm

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
10ppm	15ppm	4 to 19.9%