Chloroform CHCl3 No.137



Performance

Measuring Range	4 to 10 ppm	10 to 100 ppm	100 to 400 ppm		
Number of Pump Stroke	7	5	3		
Correction Factor	0.4	1	4		
Sampling Time	2 minutes per pump stroke				
Detecting Limit	1 ppm (n=7)				
Colour Change	White → Orange				
Reaction Principle	Chloroform is oxidized by nascent oxygen to liberate chlorine. It reacts with o-Tolidine to generate orange stain. CHCl ₃ + l ₂ O ₅ + H ₂ S ₂ O ₇ → Cl ₂ Cl ₂ + o-Tolidine → Orange product				
Coefficient of Variation	15% (for 10 to 20 ppm), 10% (for 20 to 100 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
Chlorine, Bromine, Iodine	≥1/20 time	Plus error	Discolours to orange
Unsaturated halogenated HCs	≥1/20 time	Plus error	Discolours to orange
Saturated halogenated HCs	<u>≥</u> 1/10 time	Plus error	Discolours to orange

Calibration gas generation Diffusion tube method

TLV to TWA	TLV to STEL	Explosive range
10ppm	-	-