

ChloroformCHCl₃**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)		
Color Change	White → Orange		
Reaction Principle	Chloroform is oxidized by nascent oxygen to liberate chlorine. It reacts with o-Tolidine to generate orange stain. $\text{CHCl}_3 + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \longrightarrow \text{Cl}_2$ $\text{Cl}_2 + \text{o-Tolidine} \longrightarrow \text{Orange products}$		
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 (NOTE)

Substance	Concentration	Interference	Change color by itself
Cl ₂ , Br ₂ , I ₂	1/20 time	Plus error	Discolors to orange
Unsaturated halogenated HCs	1/20 time	Plus error	Discolors to orange
Saturated halogenated HCs	1/10 time	Plus error	Discolors to orange

Calibration gas generation Diffusion tube method

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

Phone (toll free): 877-312-2333 Fax (toll free) 877-312-2444

Policy Statement and Legal Notices

Nextteq is Gastec's Exclusive U.S. Master Wholesale Distributor. Gastec tubes and pumps are manufactured by the Gastec Corporation.