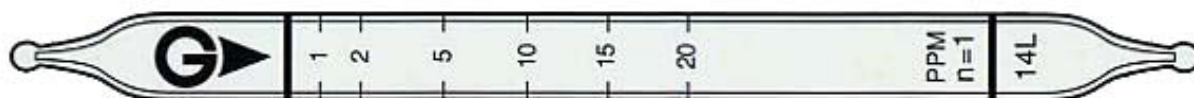


Hydrogen chloride

HCl

NO.14L



Performance

Measuring Range	0.2 to 1 ppm	1 to 20 ppm	20 to 76 ppm
Number of Pump Strokes	2 to 5	1	1/2
Correction Factor	1/2 to 1/5	1	3.8
Sampling Time	1 minute per pump stroke		
Detecting Limit	0.05 ppm (n=5)		
Colour Change	Yellow → Pink		
Reaction Principle	Hydrogen chloride reacts with indicator to produce pink stain. HCl + Indicator → Chemical reaction compound		
Coefficient of Variation	10% (for 1 to 5 ppm), 5% (for 5 to 20 ppm)		
Shelf Life	3 Years		
Corrections for temperature & humidity	Unnecessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Chlorine	$\geq 1/2$	Plus error	Produces pink stain
Nitric Acid	$\geq 1/10$	Plus error	Produces pink stain
Sulphur dioxide	≥ 10 times	Plus error	Produces pink stain
Nitrogen dioxide	≥ 5 times	Plus error	Produces pink stain
Hydrogen fluoride	≥ 600 ppm	Plus error	Produces pink stain

Water vapour and up to 600ppm of hydrogen fluoride are trapped in the pre-treatment (white) layer

Calibration gas generation High pressure gas cylinder method

TLV-TWA	TLV-STEL	Explosive range
-	C 2ppm	-