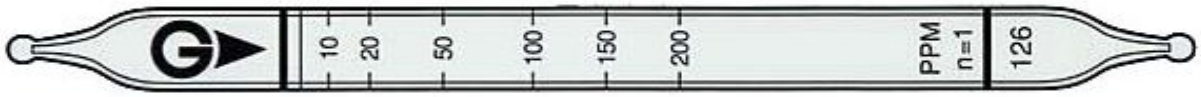
Chlorobenzene C_6H_5Cl NO.126



Performance

Measuring Range	2 to 5ppm	5 to 200ppm	200 to 500ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	0.4	1	2.5
Sampling Time	1.5 minutes per pump stroke		
Detecting Limit	0.2 ppm (n=2)		
Colour Change	White → Grey		
Reaction Principle	Chlorobenzene reacts with iodine pentoxide to liberate Iodine to discolour the reagent to grey. $C_6H_5Cl + I_2O_5 + H_2S_2O_7 \rightarrow I_2$		
Coefficient of Variation	15% (for 5 to 50 ppm), 10% (for 50 to 200 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	Result	Change colour by itself
Carbon monoxide	≧0.1%	No effect (2layers)	Discolours whole layer
Acetylene, Hexane, Ethylene	≧0.2%	No effect(2 layers)	Discolours whole layer
Alcohols, Ketones	≧1%	Plus error	No discoloration
Esters	≧0.2%	Plus error	No discoloration
Aromatic hydrocarbons	-	Plus error	Discolours to grey

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
10ppm	-	1.3 to 9.6%