



Performance

Measuring range	25 to 50 ppm	50 to 500 ppm	500 to 1000 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	2
Sampling time	1.5 min	45 sec	30 sec

Detecting limit : 5 ppm (2 pump strokes)
 Colour change : White → Vermilion
 Corrections for temperature & humidity : Unnecessary
 Relative standard deviation : 10 % (for 50 to 100 ppm), 5 % (for 100 to 500 ppm)
 Shelf life : 3 years

Reaction principle

$\text{Cl}_2 + o\text{-Tolidine} \rightarrow \text{Vermilion product}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Bromine		+	} Vermilion
Chlorine dioxide		+	
Iodine		+	

Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Chlorine dioxide	Factor : 0.9	1	45 to 450 ppm

Calibration gas generation

Permeation tube method

Special note

Even if the white detecting layer turns to light gray, that does not affect the accuracy of the measurement.