



Performance

Measuring Range	0.5 to 1 mg/l	1 to 14 mg/l	14 to 28 mg/l
Number of Pump Strokes	2	1	1/2
Correction Factor	1/2	1	2
Sampling Time	1 minute per pump stroke		
Detecting Limit	0.1 mg/l (n=2)		
Colour Change	Orange → Dark Green		
Reaction Principle	Petroleum naphtha reduces chromic acid to form chromic sulphate to produce dark green colour.		
Coefficient of Variation	10% (for 1 to 4 mg/l), 5% (for 4 to 14 mg/l)		
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
Sulphur dioxide	≥500 ppm	Plus error	Produces green colour
Hydrogen sulphide	≥500 ppm	Plus error	Produces blackish brown
Acetylene	≥3%	Plus error	Produces blackish brown for whole layer
Propane	≥0.2%	Plus error	Produces blackish brown for whole layer
Organic solvents	-	Plus error	Produces greenish brown

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Petroleum benzene	1.0	1/2, 1 or 2	0.5 to 28 mg/l
Petroleum ether	1.0	1/2, 1 or 2	0.5 to 28 mg/l

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
-	-	1.1 to 5.9%