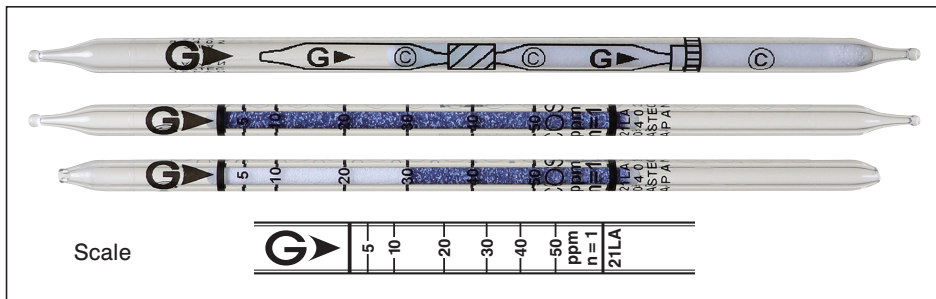


# Carbonyl Sulphide COS

No.21LA



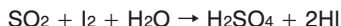
## Performance

When used, these tubes are to be connected. See page 2-3.

Measuring range	2 to 5 ppm	5 to 50 ppm	50 to 125 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	0.4	1	2.5
Sampling time	6 min	3 min	1.5 min

Detecting limit :	0.8 ppm (2 pump strokes)
Colour change :	Bluish purple → White
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction used Relative humidity 0 to 90 % correction not used
Relative standard deviation :	10 % (for 5 to 10 ppm), 5 % (for 10 to 50 ppm)
Tube quantity and number of tests per box :	10 tubes for 5 tests
Shelf life :	36 months (in the refrigerator)

## Reaction principle



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Carbon disulphide		+	} White
Sulphur dioxide		+	
Carbon monoxide	≧ 500 ppm	Black	Black at 500ppm
Nitrogen dioxide	≧ 2 ppm	+	Brown at 2ppm
Butane, Propane	≧ 10 %	No	Black at the entrance of the detecting layer
Carbon dioxide		No	No
Hydrogen sulphide	≤ 1000 ppm	No effect at 1 pump stroke	※

※ If the primary tube is totally discolored, the analyser tube will be discolored white due to the effect of hydrogen sulphide.

## Calibration gas generation

High pressure gas cylinder method