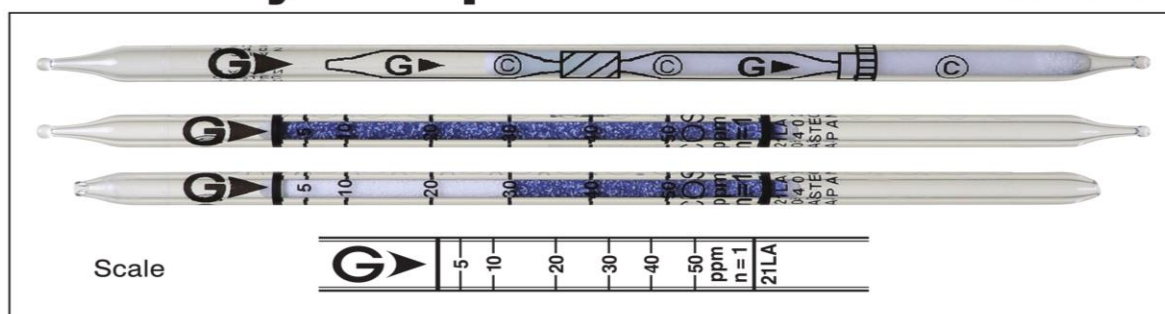




Carbonyl Sulphide COS

Part No.:21LA

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

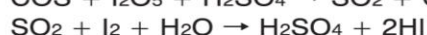
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used
Relative humidity 0 to 90 % correction not used

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 Black at 500ppm Brown at 2ppm Black at the entrance of the detecting layer
Sulphur dioxide		+	
Carbon monoxide	≥ 500 ppm	Black	
Nitrogen dioxide	≥ 2 ppm	+	
Butane, Propane	≤ 10 %	No	No ※
Carbon dioxide		No	
Hydrogen sulphide	≤ 1000 ppm	No effect at 1 ppm 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