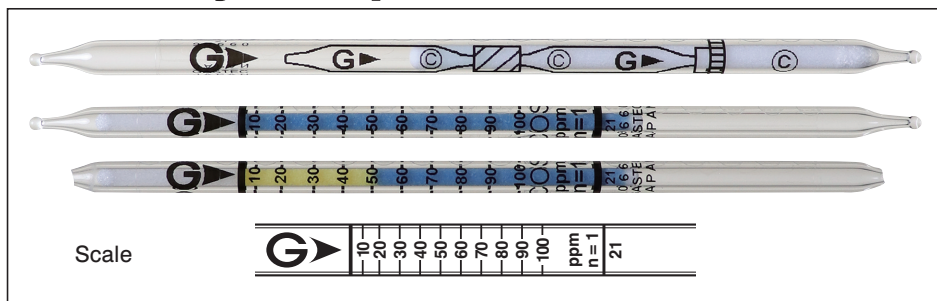


Carbonyl Sulphide COS

No.21



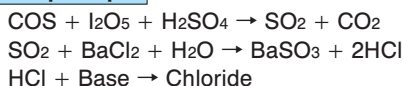
Performance

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

Measuring range	5 to 10 ppm	10 to 100 ppm	100 to 200 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/2	1	2
Sampling time	6 min	3 min	1.5 min

Detecting limit :	1 ppm (2 pump strokes)
Colour change :	Blue → Yellow
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 0 to 90 % correction not used
Relative standard deviation :	10 % (for 10 to 30 ppm) , 5 % (for 30 to 100 ppm)
Tube quantity and number of tests per box :	10 tubes for 5 tests
Shelf life :	30 months (in the refrigerator)

Reaction principle



Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Carbon disulphide		+	} Yellow
Sulphur dioxide		+	
Butane	≧ 5000 ppm	-	} No
Propane	≧ 5000 ppm	-	

Up to 500 ppm of hydrogen sulphide is trapped in the white layer in the pretreatment tube.

Calibration gas generation

High pressure gas cylinder method