| Detector tube | # Carbon Disulphide CS$_2$ | # No.13TP |
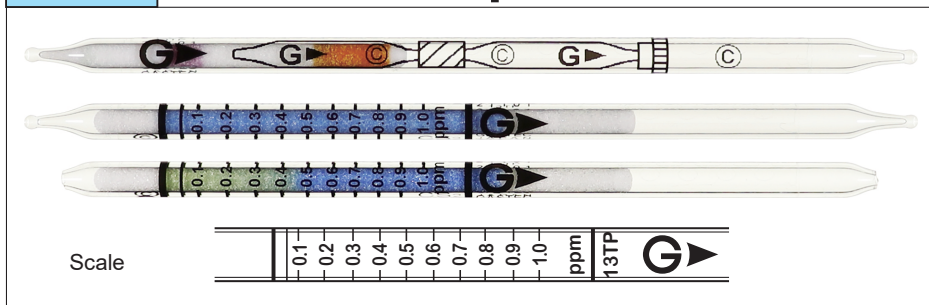
Scale

Performance

Measuring range	(0.05) to 1.0 ppm	1.0 to 2.4 ppm
Sampling rate	100 mL/min (1000 mL)	50 mL/min (500 mL)
Correction factor	1	2.4
Sampling time	10 min	10min

Detecting limit :   0.04 ppm (1000 mL)
Colour change :   Blue → Yellowish green
Operating conditions :   Temperature 0 to 35 ℃ (32 to 95 ℉) correction not used
                               Relative humidity 0 to 90 % correction not used
Relative standard deviation :   5% (for 0.05 to 1.0 ppm)
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life :   24 months

Reaction principle

$CS_2 + I_2O_5 + H_2S_2O_7 \rightarrow SO_2 + CO_2$
$SO_2 + Base \rightarrow Choride$
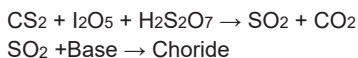
Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen sulphide	$\geqq 0.1$ ppm	+	Yellowish green ($\geqq$0.1ppm)
Carbonyl sulphide	$\geqq 0.8$ ppm	+	Yellowish green ($\geqq$0.8ppm)
Dimethyl disulphide	$\geqq 1.0$ ppm	+	Yellowish green ($\geqq$1.0ppm)
Methylene chloride	$\leqq 50$ ppm	No	No
Acetone	$\leqq 500$ ppm	No	No
Methanol	$\leqq 200$ ppm	No	No
Sulphur dioxide	$\geqq 0.1$ppm	+	Yellowish green ($\geqq$0.1ppm)

Calibration gas generation

Permeation tube method