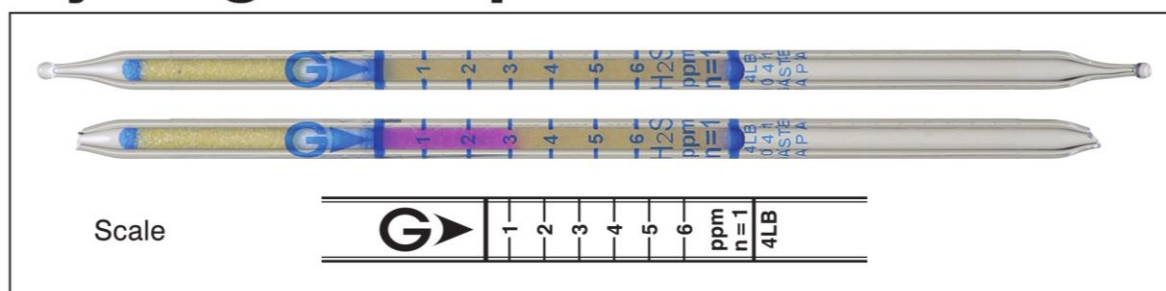




Hydrogen Sulphide H₂S

Part No.: 4LB

Hydrogen Sulphide H₂S No.4LB



Performance

Measuring range	0.5 to 1 ppm	1 to 6 ppm	6 to 12 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	0.5	1	2
Sampling time	2 min	1 min	30 sec
Detecting limit :	0.07 ppm (2 pump strokes)		
Colour change :	Yellow → Pink		
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 :	5 % (for 1 to 6 ppm)		
Tube quantity and number of tests per box :	10 tubes for 10 tests		
Shelf life :	24 months		

Reaction principle

Hydrogen sulphide reacts with the reagent to form intermediate material which stains indicator pink.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia	≥ 2.3 ppm	—	No
Ethyl mercaptan	≥ 0.5 ppm	+	Pink (≥ 0.4 ppm)
Hydrogen chloride	≥ 4.5 ppm	+	Pink (≥ 4.0 ppm)
Hydrogen cyanide	≥ 0.1 ppm	+	Pink (≥ 0.1 ppm)
Nitric acid	≥ 6.0 ppm	+	Pink (≥ 5.0 ppm)
Sulphur dioxide	≥ 1.0 ppm	+	Pale pink (≥ 0.7 ppm)
Nitrogen dioxide	≥ 3.5 ppm	—	Pink (≥ 8.0 ppm)
Hydrogen fluoride	≥ 13.0 ppm	+	Pink (≥ 10.0 ppm)

Calibration gas generation

Permeation tube method