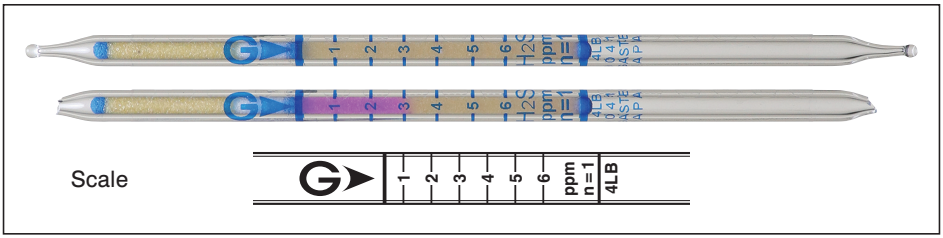
Hydrogen Sulphide H_2S No.4LB



Performance

Measuring range	0.5 to1 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