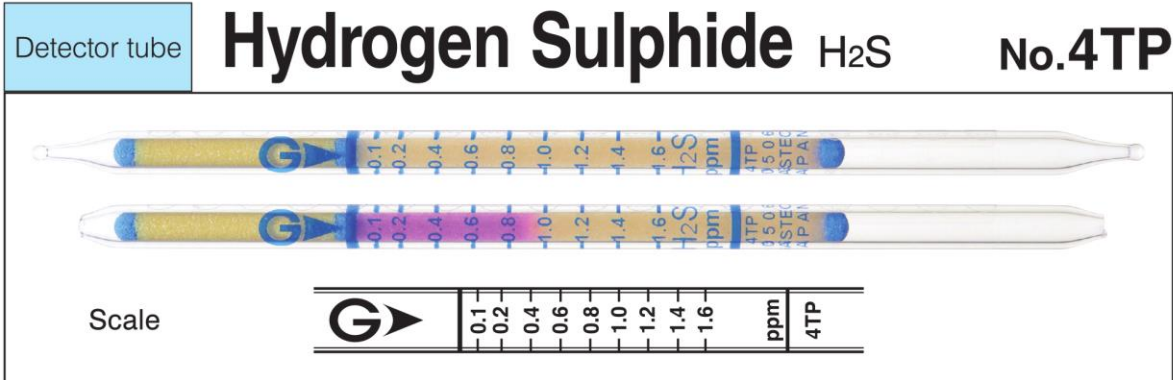




Hydrogen Sulphide H₂S

Part No.: 4TP



Performance

Measuring range	0.1 to 1.6 ppm	1.6 to 2.88 ppm
Sampling rate	100 mL/min (1000 mL)	50 mL/min (500 mL)
Correction factor	1	1.8
Sampling time	10 min	10 min
Detecting limit :	0.02 ppm (1000 mL)	
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 :	10 % (for 0.1 to 0.4 ppm), 5 % (for 0.4 to 1.6 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	≥ 0.8 ppm	– (yellow at the entrance of the detecting layer)	No (≤ 500 ppm) Pale purple (≥ 0.1 %)
Other mercaptans		+	Pink
Hydrogen chloride	≥ 7.5 ppm	+	Pink (≥ 7.5 ppm)
Hydrogen cyanide		+	Pink
Nitric acid	≥ 8.5 ppm	+	Pink (≥ 8.5 ppm)
Sulphur dioxide	≥ 1.3 ppm	} + (unclear demarcation)	Pink (≥ 1.2 ppm)
Nitrogen dioxide	≥ 8.0 ppm		Pink (≥ 7.2 ppm)
Hydrogen fluoride	≥ 46.0 ppm		Pink (≥ 46.0 ppm)

Calibration gas generation

Permeation tube method