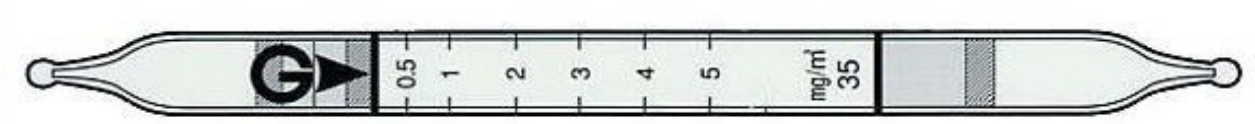
Sulphuric acid H_2SO_4 NO.35



Performance

Measuring Range	0.5 to 5 mg/m^3
Number of Pump Strokes	5
Correction Factor	1
Sampling Time	1 minute per pump stroke
Detecting Limit	0.2 mg/m^3(n=5)
Colour Change	Pale yellow ⟶ Reddish purple
Reaction Formula	Sulphuric acid reacts with reagent to produce reddish purple stain.
Coefficient of Variation	10% (for 0.5 to 2 mg/m^3), 5% (for 2 to 5 mg/m^3)
Shelf Life	2 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Hydrogen chloride	≧0.05 ppm	Plus error	Discolours to reddish purple
Chlorine	≧0.8 ppm	Plus error	Discolours to reddish purple
Sulphur dioxide	-	No effect	No discoloration
Nitrogen dioxide	≧1ppm	Plus error	Discolours to reddish purple
Hydrogen fluoride	≧0.1ppm	Plus error	Discolours to reddish purple

Calibration gas generation Bubbling method

TLV-TWA	TLV-STEL	Explosive range
0.2 mg/m^3	-	-