

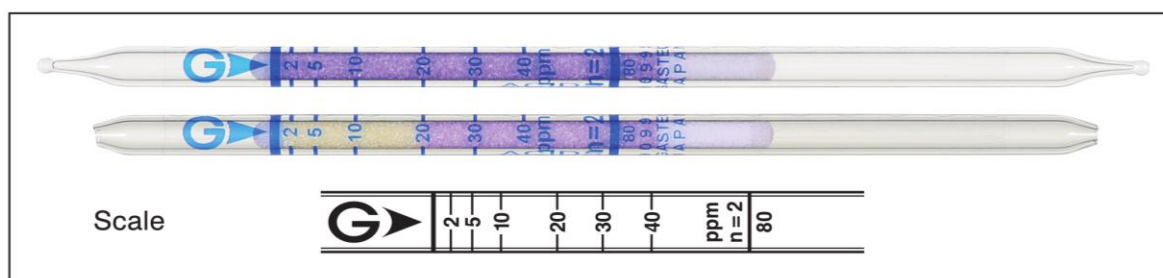


Acid Gases

Part No.: 80

Acid Gases

No.80



Performance

This detector tube is calibrated with Acetic acid.

Measuring range	1 to 2 ppm	2 to 40 ppm	40 to 80 ppm
Number of pump strokes	4 (400 mL)	2 (200 mL)	1 (100 mL)
Correction factor	1/2	1	2
Sampling time	2 min	1 min	30 sec
Detecting limit :	0.5 ppm (4 pump strokes)		
Colour change :	Pale bluish purple → Yellow		
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used		
	Relative humidity 30 to 80 % correction not used		
Relative standard deviation :	10 % (for 2 to 40 ppm)		
Tube quantity and number of tests per box :	10 tubes for 10 tests		
Shelf life :	24 months		

Reaction principle

Acid + Base → Reaction product

Substances measurable with this detector tube

Substance	Correction	n	Measuring range	Changes colour to
Sulphur dioxide	Factor : 0.75	2	1.5 to 30 ppm	Yellow
Hydrogen chloride	Factor : 4	2	8 to 160 ppm	} Pale reddish purple
Nitric acid	Factor : 2.5	2	5 to 100 ppm	
Iodine	Factor : 0.06	2	0.12 to 2.4 ppm	Light bluish gray
Nitrogen dioxide	Factor : 0.1	2	0.2 to 4 ppm	Pinkish gray
Chlorine	Factor : 0.35	2	0.7 to 14 ppm	White

n : No. of pump strokes

Calibration gas generation

Diffusion tube method

Special note

This detector tube can analyse acid gases qualitatively and quantitatively.