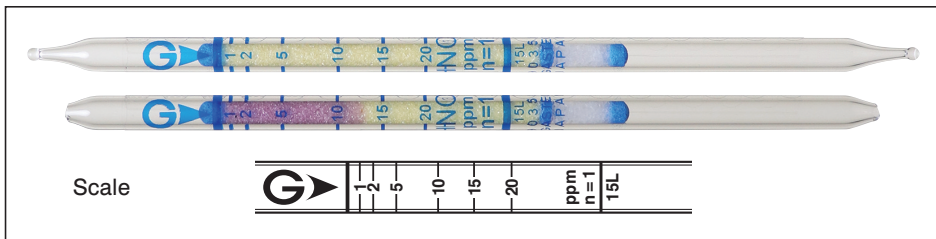


# Nitric Acid HNO<sub>3</sub>

No.15L



## Performance

Measuring range	0.1 to 1 ppm	1 to 20 ppm	20 to 40 ppm
Number of pump strokes	2 to 10 (200 to 1000mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/2 to 1/10	1	2
Sampling time	1 to 5 min	30 sec	30 sec

Detecting limit :	0.05 ppm (10 pump strokes)
Colour change :	Yellow → Reddish purple
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used Absolute humidity 4 to 16 mg/L correction used
Relative standard deviation :	15 % (for 1 to 5 ppm), 10 % (for 5 to 20 ppm)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	36 months

## Reaction principle

HNO<sub>3</sub> + Indicator → Reaction product

## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen chloride	≥ 1/10	+	Reddish purple
Chlorine		No	Bleaches
Carbon monoxide		No	} No
Nitrogen dioxide		No	
Organic solvents		No	

## Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Hydrogen bromide	Factor : 0.8	1	0.8 to 16 ppm
Trichloroacetic acid	by scale	1	1 to 37.5 ppm

## Calibration gas generation

High pressure gas cylinder method