



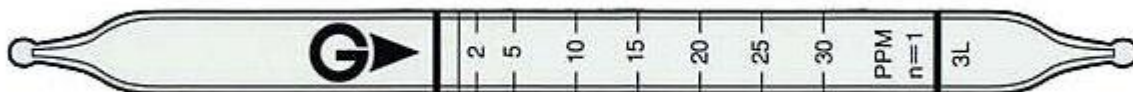
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Gastec Tube Datasheet

Ammonia

NH₃

NO.GAS3L



Performance

Measuring Range	0.5 to 1 ppm	1 to 30 ppm	30 to 78 ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	1/2	1	2.6
Sampling Time	1 minute per pump stroke		
Detecting Limit	0.2 ppm (n=2)		
Colour Change	Pink → Yellow $2\text{NH}_3 + \text{H}_3\text{SO}_4 \longrightarrow (\text{NH}_4)_2\text{SO}_4$		
Reaction Principle	Ammonia neutralizes sulphuric acid to change the colour of pH indicator to yellow.		
Coefficient of Variation	10% (for 1 to 10 ppm), 5% (for 10 to 30 ppm)		
Shelf Life	Up to 3 Years		
Corrections for temperature & humidity	Unnecessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Carbon dioxide	≥1%	-	-
Hydrazine	-	+	Produces yellow discoloration
Amines	1/15	+	Discolours yellow at 5 ppm

Calibration gas generation Permeation tube method

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