



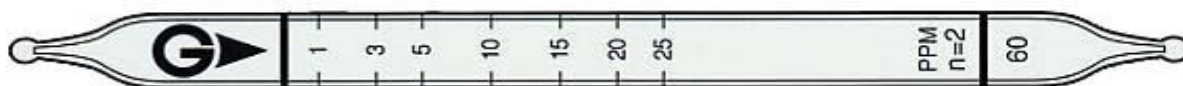
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Gastec Tube Datasheet

Phenol

C₆H₅OH

NO.GAS60



Performance

Measuring Range	0.4 to 1 ppm	1 to 25 ppm	25 to 62.5 ppm	62.5 to 187 ppm
Number of Pump Strokes	4	2	1	1/2
Correction Factor	0.4	1	2.5	7.5
Sampling Time	1.5 minutes per pump stroke			
Detecting Limit	0.1 ppm (n = 4)			
Colour Change	Pale yellow → Gray			
Reaction Principle	Phenol react with Ceric Ammonium Nitrate to form a condensation polymer which colour is grey $\text{C}_6\text{H}_5\text{OH} + \text{Ce}(\text{NO}_3)_6^{2-} \rightarrow \text{C}_6\text{H}_5\text{OCe}(\text{NO}_3)_5^{2-}$			
Coefficient of Variation	15% (for 1 to 5 ppm), 10% (for 5 to 25 ppm)			
Shelf Life	Up to 2 Years			
Corrections for temperature & humidity	Temperature correction is necessary			
Store the tubes in the refrigerator to keep at 10°C (50°F) or below.				

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ammonia	≥2000 ppm	Plus error (faint demarcation)	Produce white stain
Amines	≥2000 ppm		
Cresol	-	Plus error	Produce grey stain

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Naphthalene	by Scale	2	0.5 to 14 ppm

Calibration gas generation Diffusion tube method

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