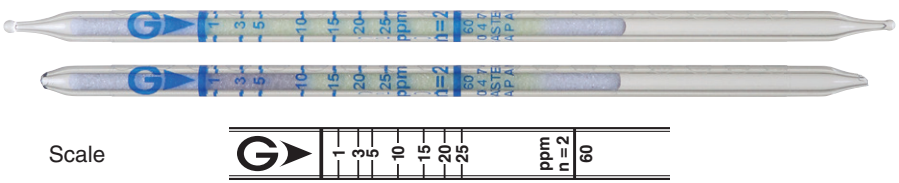
Phenol C_6H_5OH No.60



Performance

Measuring range	0.12 to 1 ppm	1 to 25 ppm	25 to 70 ppm	70 to 183 ppm
Number of pump strokes	4 (400 mL)	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	0.12	1	2.8	7.3
Sampling time	6 min	3 min	1.5 min	45 sec

Detecting limit : 0.1 ppm (4 pump strokes)
Colour change : Pale yellow → Gray
Operating conditions : Temperature 10 to 40 ℃ (50 to 104 ℉) correction used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 15 % (for 1 to 5 ppm), 10 % (for 5 to 25 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 24 months (in the refrigerator)

Reaction principle

$C_6H_5OH + Ce(NO_3)_6^{2-} \rightarrow C_6H_5OCe(NO_3)_5N$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Cresol		+	Gray
Amines	≧ 2000 ppm	+ (Unclear demarcation)	White
Ammonia	≧ 2000 ppm		

Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Naphthalene	by scale	2	0.5 to 14 ppm

Calibration gas generation

Diffusion tube method