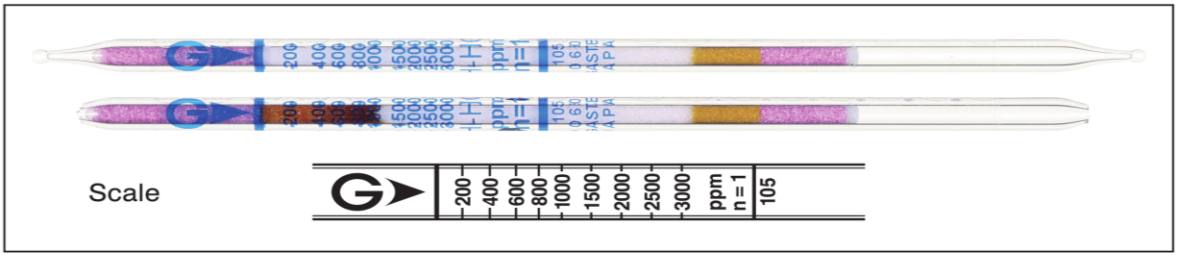
wiserise marine

Hydrocarbons（Higher Class）C6 to C10

Part No.: 105

Hydrocarbons (Higher Class) C_6 to C_{10} No.105



Performance

This detector tube is calibrated with n-Octane.

Measuring range	100 to 200 ppm	200 to 3000 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)
Correction factor	1/2	1
Sampling time	3 min	1.5 min

Detecting limit : 20 ppm (2 pump strokes)
Colour change : White → Blackish brown
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 10 % (for 200 to 1000 ppm), 5 % (for 1000 to 3000 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 36 months

Reaction principle

Hydrocarbon (C_6 to C_{10}) + I_2O_5 + $H_2S_2O_7$ → I_2

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acetylene, Ethylene	≧ 0.1 %	+	Blackish brown
Carbon monoxide	≧ 0.1 %	+	
Organic solvents		+	

Substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Octane	Factor : 1	1	200 to 3000 ppm
	Factor : 0.5	2	100 to 200 ppm
Decane	Factor : 2	1	400 to 6000 ppm
	Factor : 1	2	200 to 400 ppm
Nonane	Factor : 1.3	1	260 to 3900 ppm
	Factor : 0.65	2	130 to 260 ppm
Hexane	Factor : 0.8	1	160 to 2400 ppm
	Factor : 0.4	2	80 to 160 ppm
Heptane	Factor : 0.9	1	180 to 2700 ppm
	Factor : 0.45	2	90 to 180 ppm

Calibration gas generation

Vapour pressure method

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