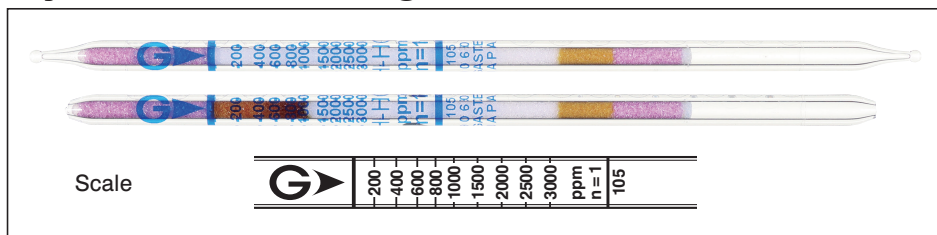


# Hydrocarbons (Higher Class) $C_6$ to $C_{10}$ No. 105



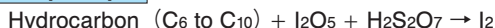
## Performance

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



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acetylene, Ethylene	$\geq 0.1$ %	+	} Blackish brown
Carbon monoxide	$\geq 0.1$ %	+	
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