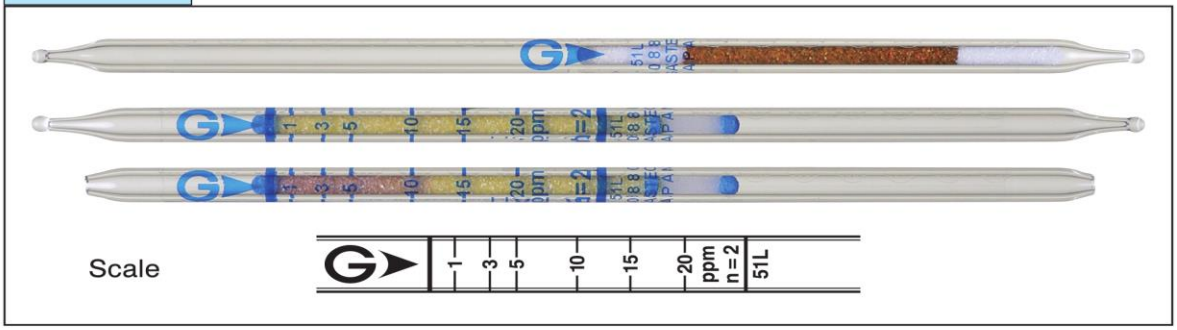
Fluorochlorocarbons

Part No.:51L

Pyrotube

Fluorochlorocarbons No.51L



Performance

This detector tube is calibrated with Freon 113.

Measuring range	1 to 20 ppm	20 to 54 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)
Correction factor	1	2.7
Sampling time	4 min	2 min

Detecting limit : 0.2 ppm (2 pump strokes)
Colour change : Yellow → Reddish purple
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 0 to 90 % correction not used
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 36 months

Reaction principle

Pyrotec : Fluorochlorocarbons $\xrightarrow{\text{(Pyrolyzing)}}$ HCl
Pyrotube : HCl + Base → Chloride

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Halogenated hydrocarbons		+	Reddish purple
Hydrogen chloride		+	
Nitrogen dioxide		+	

Substances measurable with this Pyrotube

Substance	n	Correction factor	Measuring range (ppm)
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	1	2.7	20-54
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	2	1.0	1-20
Chlorodifluoromethane (R22)	1	6.75	50-135
Chlorodifluoromethane (R22)	2	2.5	2.5-50
Dichlorodifluoromethane (R12)	1	4.86	36-97.2
Dichlorodifluoromethane (R12)	2	1.8	1.8-36
1,1-Dichloro-1-fluoroethane (R141b)	2	1.1	1.1-22
1,2-Dichloro-1,1,2,2-tetrafluoroethane (R114)	1	4.86	36-97.2
1,2-Dichloro-1,1,2,2-tetrafluoroethane (R114)	2	1.8	1.8-36
2,2-Dichloro-1,1,1-trifluoroethane (R123)	2	1.4	1.4-28
Dichloropentafluoropropane (R225)	2	1.4	1.4-28
Enflurane	2	by scale	25-145
Halothane	2	3.0	3-60
Methyl chloride	1	4.32	32-86.4
Methyl chloride	2	1.6	1.6-32
Methylene chloride	1	2.7	20-54
Methylene chloride	2	1.0	1-20
1,1,2,2-Tetrachloro-1,2-difluoroethane (R112)	1	2.7	20-54
1,1,2,2-Tetrachloro-1,2-difluoroethane (R112)	2	1.0	1-20
Trichlorofluoromethane (R11)	1	2.16	16-43.2
Trichlorofluoromethane (R11)	2	0.8	0.8-16
1,1,1-Trichloro-2,2,2-trifluoroethane (R113a)	1	2.16	16-43.2
1,1,1-Trichloro-2,2,2-trifluoroethane (R113a)	2	0.8	0.8-16