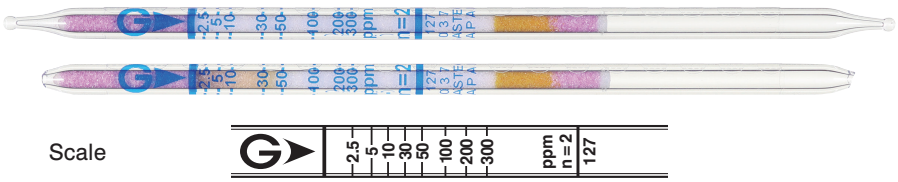
o-Dichlorobenzene $C_6H_4Cl_2$ No.127



Scale

Performance

Measuring range	2.5 to 300 ppm
Number of pump strokes	2 (200 mL)
Correction factor	1
Sampling time	3 min

Detecting limit : 1 ppm (2 pump strokes)
Colour change : White → Light brown
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 10 % (for 2.5 to 100 ppm), 5 % (for 100 to 300 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 36 months

Reaction principle

$C_6H_4Cl_2 + I_2O_5 + H_2S_2O_7 \rightarrow I_2$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Aromatic hydrocarbons		+	Light brown
Acetylene	≦ 0.2 %	No	Light brown (whole layer) (≧ 0.2 %)
Carbon monoxide	≦ 0.1 %	No	Light brown (whole layer) (≧ 0.1 %)
Ethylene, Esters	≦ 0.2 %	No	Light brown (whole layer) (≧ 0.2 %)
Hexane	≦ 0.2 %	No	Light brown (whole layer) (≧ 0.2 %)
Alcohols, Ketones	≧ 1 %	+	No

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
m-Dichlorobenzene	Factor : 1	2	2.5 to 300 ppm
p-Dichlorobenzene	Factor : 1	2	2.5 to 300 ppm

Calibration gas generation

Diffusion tube method