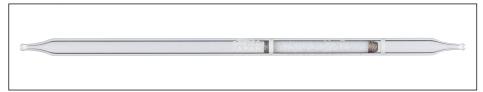
Polytec I No.107



Substance	Colour Change
Carbon disulphide, n-Hexane Cyclohexane, Hydrogen sulphide	TASIZE THE
Carbon monoxide	
Acetone, Acetylene, Ethylene	
Propane, Propylene, Gasoline, tert-Butyl alcohol, Benzene	
Styrene, Acrylonitrile	
Trichloroethylene	
Toluene, Xylene	

Performance

Number of pump strokes	n = 3	
Sampling time	30 seconds per 1 pump stroke / 1.5 minutes	

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 10 tests

Shelf life: 36 months

Reaction principle

Substance + $I_2O_5 + H_2S_2O_7 \rightarrow I_2$

Substances & expected concentration

·		
Substance	Concentration *	Changes colour from white to
Carbon monoxide	≥ 10 ppm	Green or Brown
Carbon disulphide	≥ 1 ppm	Green
Hydrogen sulphide	≥ 1 ppm	Green
Acrylonitrile	≥ 500 ppm	Yellowish brown
Acetylene	≥ 10 ppm	Brown or Green
Acetone	≥ 1000 ppm	Brown or Green
Ethylene	≥ 70 ppm	Brown or Green
Gasoline	≥ 100 ppm	Brown
Cyclohexane	≥ 6000 ppm	Green
Styrene	≥ 10 ppm	Yellow or Brown
Trichloroethylene	≥ 15 ppm	Pale brown
Toluene, Xylene	≥ 10 ppm	Purple
tert-Butyl alcohol	≥ 1500 ppm	Brown
Propane, Propylene	≥ 100 ppm	Brown
n-Hexane	≥ 1800 ppm	Green
Benzene	≥ 20 ppm	Brown

^{*} Minimum concentration required to produce a response.