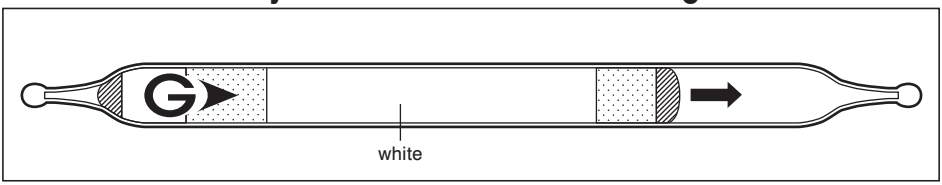
Qualitative Analysis Tube for Fire Investigation No.108



Performance

Number of pump strokes	n=1
Sampling time	45 seconds per 1pump stroke（100mL）
Shelf life	3 years

Reaction principle

$C_nH_{2n+2} + I_2O_5 + H_2SO_4 \rightarrow I_2$

Substances & expected concentration

Substance		Colour change
Kerosene	Low concentration	White → Brown (inlet) and Yellowish brown
	High concentration	White → Brown (inlet) and Pale brown
	Delayed colour change	Yellowish brown part of low concentration and pale brown part of high concentration turns to Pale pink.
Gasoline	Low concentration	White → Brown
	High concentration	White → Yellow (inlet) and Brown

Possible coexisting substances and their interferences

Substance	Interference gas only
Diesel fuel	Same colour change of Kerosene
Lubricating oil	No discolouration. However, if the oil contains Kerosene, the tube will show colour change similar to Kerosene.
Cooking oil	No discolouration
Toluene	Brown
Xylene	Brown
Ethyl Benzene	Brown
Plastics product	No discolouration before and after burning