

Performance

Measuring range	2 to 100 ppm	100 to 200 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)
Correction factor	1	2
Sampling time	3 min	1.5 min

Detecting limit : 1 ppm (2 pump strokes)

Color change : White → Brown

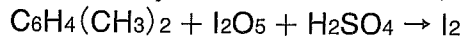
Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10 % (for 2 to 30 ppm), 5 % (for 30 to 100 ppm)

Shelf life : 3 years

Reaction principle

Aromatic hydro carbons + I_2O_5 (white) + H_2SO_4 → I_2 (Dark brown)



Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes color by itself to
Acetylene, Ethylene, Hexane		No	No
Alcohols, Esters, Ketones		No	No
Aromatic hydrocarbons		+	Brown

Calibration gas generation

Diffusion tube method