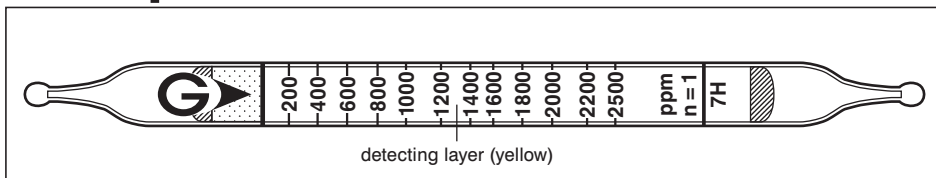


Phosphine PH₃

No.7H



Performance

Measuring range	200 to 2500 ppm	2500 to 5500 ppm
Number of pump strokes	1 (100 ml)	1/2 (50 ml)
Correction factor	1	2.2
Sampling time	1 min	30 sec

Detecting limit : 5 ppm (1 pump stroke)
Colour change : Yellow → Dark brown
Corrections for temperature & humidity : Temperature correction is necessary.
Relative standard deviation : 10 % (for 200 to 800 ppm), 5 % (for 800 to 2500 ppm)
Shelf life : 2 years

Reaction principle

Phosphine reacts with palladium to produce blackish discolouration.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia	≤ 2500 ppm	No	No
Carbon monoxide		+	Dark brown
Carbon dioxide	≤ 2 %	No	No

Calibration gas generation

High pressure gas cylinder method