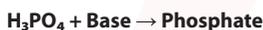
**Specification :**

Measurement Range	5 – 3000 ppm
Calibration Scale Range	50 – 1500 ppm. hr
Sampling time	0.5 – 10 hrs
Sampling Method	Diffusion
Color Change	Yellow → Pinkish Red
Shelf Life	1 year
Relative standard deviation	± 10 – 15 %

**Reaction Principle :****Calculation :**

The average concentration of Acetone exposure (TWA ppm) =  $\frac{\text{Dosimeter tube reading (ppm. hr)}}{\text{Actual sampling time (hr)}}$

**Possible Interferences :**

Compound	Concentration (ppm)	Interference	Color Change / Comments
Aldehyde / ketone		+	Pinkish Red
Acid gases		+	Pinkish Red

**Other Measurable Compounds :**

Compound	Correction Factor	Measuring Range
Methyl ethyl ketone (MEK)	1.3	6.5 – 3900 ppm
Methyl isobutyl ketone (MIBK)	2.3	11.5 – 6900 ppm
Acetaldehyde	0.8	4 – 2400 ppm
Propionaldehyde	1.3	6.5 – 3900 ppm

**Correction For Environmental Parameters :**

Temperature	Not necessary between 0 – 40°C (32 – 104°F).
Relative humidity	Not necessary between 10 – 90 %.

**Calibration Of The Tube :**

Calibrated by exposing the dosimeter tubes for one hour at different concentrations of acetone ranging from 50 ppm to 1500 ppm and finding out the stain length. The concentration-time product is marked on the tube.