

Phosphine 0.01/a

Catalog No 8101611

Standard Measuring Range: 0.1 to 1 ppm / 0.01 to 0.3 ppm
Number of Strokes (n): 3 / 10
Time for Measurement: about 2.5 minutes / about 8 minutes
Standard Deviation: ± 10 to 15%
Color Change: yellow to red

Ambient Operation Conditions

Temperature: 2 to 40°C
Absolute Humidity: < 20 mg H₂O/L

Reaction Principle

$\text{PH}_3 + \text{HgCl}_2 \longrightarrow \text{HCl} + \text{Hg-Phosphide}$
 $\text{HCl} + \text{pH Indicator} \longrightarrow \text{red reaction product}$

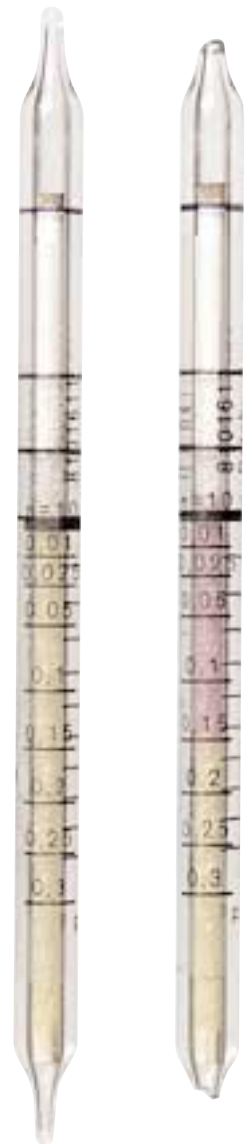
Cross Sensitivity

Arsine is indicated with different sensitivity.

Up to 6 ppm sulfur dioxide or 15 ppm hydrochloric acid does not interfere, but higher concentrations cause plus errors.

More than 100 ppm ammonia leads to minus errors.

300 ppm Hydrocyanic acid does not affect the 3 stroke test, but with the 10 stroke test minus errors up to 50% can occur.



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