



Standard Measuring Range : 2 to 15 mg/m³
Number of Strokes (n) : 10
Time for Measurement : app. 2.5 min
Standard Deviation : ± 20 to 30 %
Colour Change : yellow → red

Ambient Operating Conditions

Temperature : 0 to 30 °C
Absolute Humidity : < 20 mg H₂O / L

Reaction Principle

- $2 \text{ KCN} + \text{H}_2\text{SO}_4 \rightarrow 2 \text{ HCN} + \text{K}_2\text{SO}_4$
- $2 \text{ HCN} + \text{HgCl}_2 \rightarrow 2 \text{ HCl} + \text{Hg}(\text{CN})_2$
- $\text{HCl} + \text{Methyl red} \rightarrow \text{red reaction product}$

Cross Sensitivity

Free hydrogen cyanide is indicated even before breaking the ampoule.

A certain portion of the cyanide can react with the CO₂ in the air through hydrolysis.

It is not possible to measure cyanide in the presence of phosphine and acids.

Additional Information

After performing the required ten pump strokes the reagent ampoule must be broken. The liquid of the ampoule must be transferred to the indication layer and drawn through it with two pump strokes in cyanide free air using the pump.

The indicating layer must not become moist.