

Cyanide 2/a

Order No. 67 28 791

Application Range

Standard Measuring Range:	2 to 15 mg/m ³
Number of Strokes n:	10
Time for Measurement:	approx. 2.5 min
Standard Deviation:	± 20 to 30 %
Color Change:	yellow → red

Ambient Operating Conditions

Temperature:	0 to 30 °C
Absolute Humidity:	< 20 mg H ₂ O / 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 already before breaking the ampoule.

Acid gases are indicated with different sensitivities.

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

It is impossible to measure cyanide in the presence of phosphine.

Additional Information

After carrying out the 10 strokes the reagent ampoule must be broken, the liquid transferred onto the white separating layer and carefully drawn through with two strokes in cyanide free air using the pump. The indicating layer must not become moist.



ST-573-2008