

Cyanide 2/a

Catalog No 6728791

Standard Measuring Range: 2 to 15 mg/m³
Number of Strokes (n): 10
Time for Measurement: about 2.5 minutes
Standard Deviation: ± 20 to 30%
Color Change: yellow to red

Ambient Operation Conditions

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

Reaction Principle

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

Cross Sensitivity

Free hydrogen cyanide is indicated even before breaking the ampule.

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 10 pump strokes the reagent ampule must be broken. The liquid of the ampule must be transferred to the indication layer and carefully drawn through it with two pump strokes in cyanide free air using the pump. The indicating layer must not become moist.



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