Acrylonitrile 0.2/a

Order No. 81 03 701



Application Range

Standard Measuring Range: 0.2 to 4 ppm / 5 to 50 ppm

Number of Strokes n: 20 / 5

Time for Measurement: approx. 4 min / approx. 1 min

Standard Deviation: \pm 15 to 20 % Color Change: yellow \rightarrow red

Ambient Operating Conditions

Temperature: 5 to 40 °C

Absolute Humidity: 1 to 25 mg H_2O / L

Reaction Principle

a) CH₂=CH-CN + MnO₄ → HCN

 b_1) HCN + $HgCl_2 \rightarrow HCl$

b₂) HCl + methyl red → red reaction product

Cross Sensitivity

At 4 ppm acrylonitrile no effect from:

1000 ppm acetone, 20 ppm benzene, 1000 ppm, ethal acetate. In the presence of 500 ppm ethanol, 1000 ppm n-hexane or 100 ppm toluene, acrylonitrile is indicated with lower sensitivity and determining the concetration is not possible.

In the presence of 400 ppm butadiene, the indication of 4 ppm acrylonitrile is largely suppressed.



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