Acrylonitrile 0.2/a

Order No. 81 03 701

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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:	± 15 to 20 %	
Color Change:	yellow → red	

Ambient Operating Conditions

Temperature:	5 to 40 °C
Absolute Humidity:	1 to 25 mg H_2O / L

Reaction Principle

a) CH_2=CH-CN + MnO_4 → HCN

b_1) HCN + $HgCl_2$ → HCl

b_2) 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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