

Phenol 1/b

Order No. 81 01 641

Application Range

Standard Measuring Range:	1 to 20 ppm
Number of Strokes n:	20
Time for Measurement:	approx. 5 min
Standard Deviation:	± 10 to 15 %
Color Change:	yellow → brown grey

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	1 to 18 mg H ₂ O / L

Reaction Principle

$$\text{C}_6\text{H}_5\text{OH} + \text{Ce}(\text{SO}_4)_2 + \text{H}_2\text{SO}_4 \rightarrow \text{brown grey reaction product}$$

Cross Sensitivity

Cresols are also indicated, but with different sensitivities. To determine m-cresol multiply the indication by 0.8. Benzene, toluene and other aromatics without the heteroatoms are not indicated. Aliphatic hydrocarbons and alcohols are not indicated.

Additional Information

At a temperature of 0 °C the resulting indication must be multiplied by 1.3, at a temperature of 40 °C it must be multiplied by 0.8.

