



Certificate of Analysis

1.08176.0000 Thymol blue indicator ACS, Reag. Ph Eur
Batch K54334176

	Spec. Values		Batch Values	
Clarity of solution (1 g/l; ethanol)	passes test		passes test	
Identity (UV/VIS-Spectrum)	passes test		passes test	
1st transition range	pH 1.2 - pH 2.8 violet red - brownish yellow		passes test	
2nd transition range	pH 7.8 - pH 9.5 greenish yellow - blue		passes test	
Absorption maximum $\lambda_{1 \text{ max.}}$ (buffer pH 1,2)	543 - 547	nm	545	nm
Absorption maximum $\lambda_{2 \text{ max.}}$ (buffer pH 2,8)	431 - 437	nm	434	nm
Absorption maximum $\lambda_{3 \text{ max.}}$ (buffer pH 7.8)	431 - 437	nm	434	nm
Absorption maximum $\lambda_{4 \text{ max.}}$ (buffer pH 9.5)	594 - 598	nm	597	nm
Spec. Absorptivity A 1%/1cm ($\lambda_{1 \text{ max.}}$; 0.01 g/l; buffer pH 1,2; calc. on dried substances)	580 - 720		590	
Spec. Absorptivity A 1%/1cm ($\lambda_{2 \text{ max.}}$; 0.01 g/l; buffer pH 2,8; calc. on dried substances)	250 - 370		320	
Spec. Absorptivity A 1%/1cm ($\lambda_{3 \text{ max.}}$; 0.01 g/l; buffer pH 7.8; calc. on dried substances)	250 - 370		307	
Spec. Absorptivity A 1%/1cm ($\lambda_{4 \text{ max.}}$; 0.01 g/l; buffer pH 9.5; calc. on dried substances)	580 - 700		622	
Loss on drying (110 °C)	≤ 5	%	4	%
Transition range (according to ACS)	passes test		passes test	
Sensitivity test	passes test		passes test	

Date of release (DD.MM.YYYY) 13.10.2022
Minimum shelf life (DD.MM.YYYY) 30.06.2027

Dr. Michael Memmel
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.